VIRGINIA ELECTRIC AND POWER COMPANY RICHMOND, VIRGINIA 23261

November 27, 2012

U.S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, DC 20555 Serial No. 12-208H NL&OS/WDC R0 Docket Nos. 50-280/281 License Nos. DPR-32/37

VIRGINIA ELECTRIC AND POWER COMPANY SURRY 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 Surry Power Station (Surry) 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 Surry Units 1 and 2, and includes the results of seismic walkdowns completed as of November 10, 2012. Attachment 2 provides a list of items for which inspections could not be completed due to inaccessibility and a schedule of when the walkdowns for these items will be completed. A supplemental submittal will be provided to the NRC with the results of the deferred seismic walkdowns for Surry Units 1, 2014.

A601

If you have any questions regarding this information, please contact Gary D. Miller at (804) 273-2771.

Sincerely,

David A. Heacoch

President and Chief Nuclear Officer Virginia Electric and Power Company

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

COMMONWEALTH OF VIRGINIA

COUNTY OF HENRICO

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

ber . 2012. Acknowledged before me this dav of My Commission Expires: Notary Public

Commitments made in this letter:

1. Seismic walkdowns that could not be completed due to inaccessibility will be completed as indicated in Attachment 2, Table 3-1 and Table 3-2 and a supplemental submittal will be provided for Surry Units 1 and 2 by August 31, 2014.

Attachments:

- 1. Surry Seismic Walkdown Summary Report
- 2. List of Inaccessible Items

Serial No. 12-208H Docket Nos. 50-280/281 Page 3 of 3

U.S. Nuclear Regulatory Commission, Region II Regional Administrator Marquis One Tower 245 Peachtree Center Ave. NE Suite 1200 Atlanta, Georgia 30303-1257

K. R. Cotton Project Manager U.S. Nuclear Regulatory Commission One White Flint North, Mail Stop 08 G-9A 11555 Rockville Pike Rockville, MD 20852-2738

Dr. V. Sreenivas Project Manager U.S. Nuclear Regulatory Commission One White Flint North, Mail Stop 08 G-9A 11555 Rockville Pike Rockville, MD 20852-2738

NRC Senior Resident Inspector Surry Power Station

CC:

Serial No. 12-208H Docket Nos. 50-280/281

ATTACHMENT 1

(See attached compact disc)

SURRY SEISMIC WALKDOWN SUMMARY REPORT

VIRGINIA ELECTRIC AND POWER COMPANY SURRY POWER STATION UNITS 1 AND 2

Serial No. 12-208H Docket Nos. 50-280/281

ATTACHMENT 2

LIST OF INACCESSIBLE ITEMS

VIRGINIA ELECTRIC AND POWER COMPANY SURRY POWER STATION UNITS 1 AND 2

Serial No. 12-208H Docket Nos. 50-280/281 Response to Seismic for Recommendation 2.3 Attachment 2, Page 1 of 4

ID Number Description		Location	Inspection Completion Schedule
1-IA-PCV-101	PORV Backup Air	Containment	Fall outage 2013
1-RC-PCV- 1455C	Pressurizer PORV	Containment	Fall outage 2013
1-DA-TV-100A	Containment Sump Dsch Trip Valve	Containment	Fall outage 2013
1-FW-MOV- 151B	AFW Header	Containment	Fall outage 2013
1-FW-MOV- 151E	AFW Header	Containment	Fall outage 2013
1-SI-MOV- 1865A	Accumulator Outlet	Containment	Fall outage 2013
1-VS-AC-1	MCR AC Unit	Service Building	Fall outage 2013
1-VS-AC-7	Relay Room AC Unit	Service Building	Fall outage 2013
1-EP-DB-1-IA	EE/120V VITAL AC 1-IA BUS (RED)	ESGR	Fall outage 2013
1-EP-DB- 1SVB1	EE/120V SEMI-VITAL AC BUS	Control Room	Fall outage 2013
1-FW-FT-100A	AFW Flow Transmitter	Containment	Fall outage 2013
1-IA-PS-103B	PORV Backup Air Pressure Switch	Containment	Fall outage 2013
1-IA-PS-104B	PORV Backup Air Bottle Pressure Switch	Containment	Fall outage 2013
1-SI-TK-1C	SI Accumulator	Containment	Fall outage 2013
1-CW-PNL-1B*	Canal Level Relay Panel	ESGR	Fall outage 2013
1-EP-MCC- 1H1-2N*	Emergency MCC	Cable Vault	Fall outage 2013
1-EP-MCC- 1K1*	MCC for Chiller 4A	ESGR	Fall outage 2013
1-EP-MCC-1H- 1B*	MCC for Chiller 4E	MER 5	Fall outage 2013
1-EP-TRAN- 1J*	4160-480V Service Transformer	ESGR	Fall outage 2013
1-EP-XFRM- 1SVB1-2*	480-120V Semi-Vital Transformer	Control Room	Fall outage 2013
1-HT-T-2B3*	Heat Tracing Transformer	Auxiliary	Fall outage 2013
1-EPD-DCS- 1A-SUB*	EE/125V VITAL DC SUB PNL 1A	ESGR	Fall outage 2013

Table 3-1: Unit 1 Deferred Walkdown Items

Serial No. 12-208H Docket Nos. 50-280/281 Response to Seismic for Recommendation 2.3 Attachment 2, Page 2 of 4

ID Number	Description	Location	Inspection Completion Schedule
1-MS-BC-1*	MSTV App R SOV Battery Charger	Control Room	Fall outage 2013
1-MS-BC-2*	MSTV App R SOV Battery Charger	ESGR	Fall outage 2013
1-EE-BC-EG1*	EDG 1 Battery Charger	EDG 1 Room	Fall outage 2013
1-SW-CAB-3C*	Emergency SW Pump Relay Cabinet	ESPH	Fall outage 2013
1-CW-PNL-1A*	Canal Level Relay Panel	Cable Vault	Fall outage 2013
1-EP-CS-100*	CONTROL ROOM CHILLER TRAN SWITCH	Service Building	Fall outage 2013

Table 3-1: Unit 1 Deferred Walkdown Items

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

Serial No. 12-208H Docket Nos. 50-280/281 Response to Seismic for Recommendation 2.3 Attachment 2, Page 3 of 4

ID Number	Description	Location	Inspection Completion Schedule	
2-BD-TV-200A	S/G A Blowdown Containment Isolation	Containment	Spring outage 2014	
2-IA-PCV-201	PORV Backup Air	Containment	Spring outage 2014	
2-RC-PCV- 2455C	Pressurize PORV	Containment	Spring outage 2014	
2-DA-TV-200A	Containment Sump Dsch Trip Valve	Containment	Spring outage 2014	
2-VS-AC-6	ESGR Air Handler	ESGR	Spring outage 2014	
2-VS-AC-7	ESGR Air Handler	ESGR	Spring outage 2014	
2-FW-MOV- 251B	AFW Header	Containment	Spring outage 2014	
2-FW-MOV- 251E	AFW Header	Containment	Spring outage 2014	
2-SI-MOV- 2865A	Accumulator Outlet	Containment	Spring outage 2014	
2-EP-DB-2-IÅ	EE/120V VITAL AC 2-IA BUS (RED)	ESGR	Spring outage 2014	
2-EP-DB- 2SVB1	EE/120V SEMI-VITAL AC BUS	Control Room	Spring outage 2014	
2-FW-FT-200A	AFW Flow Transmitter	Containment	Spring outage 2014	
2-IA-PS-203B	PORV Backup Air Pressure Switch	Containment	Spring outage 2014	
2-1A-PS-204B	PORV Backup Air Bottle Pressure Switch	Containment	Spring outage 2014	
2-SI-TK-1C	SI Accumulator	Containment	Spring outage 2014	
2-EP-MCC- 2H1-1A*	2H Emergency MCC	EDG 2 Room	Spring outage 2014	
2-EP-CS-200*	CONTROL ROOM CHILLER 4B TRANSFER SWITCH	ESGR	Spring outage 2014	
2-EP-MCC- 2H1-2N*	Emergency MCC	Cable Vault	Spring outage 2014	
2-EP-MCC- 2K1*	MCC for Chiller 4B	ESGR	Spring outage 2014	
2-EP-TRAN- 2J*	4160-480V Service Transformer	ESGR	Spring outage 2014	
2-EP-XFRM- 2SVB1-2*	480-120V Semi-Vital Bus	Control Room	Spring outage 2014	

Table 3-2: Unit 2 Deferred Walkdown Items

Serial No. 12-208H Docket Nos. 50-280/281 Response to Seismic for Recommendation 2.3 Attachment 2, Page 4 of 4

ID Number	Description	Location	Inspection Completion Schedule
2-EP-UPS-2A- 1*	EE/UPS 2A1	ESGR	Spring outage 2014
2-EPD-DCS- 2A-SUB*	EE/125V VITAL DC SUB PNL 2A	ESGR	Spring outage 2014
2-EP-UPS-2B- 2*	EE/UPS 2B2	ESGR	Spring outage 2014
2-MS-BC-2*	MSTV App R SOV Battery Charger	ESGR	Spring outage 2014
2-EE-BC-EG2*	EDG 2 Battery Charger	EDG 2 Room	Spring outage 2014
2-CW-PNL-1A*	Canal Level Relay Panel	ESGR	Spring outage 2014

Table 3-2: Unit 2 Deferred Walkdown Items

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

Dominion

Virginia Electric and Power Company Surry 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 NRC's 50.54(f) letter requested utilities to provide information related to NTTF Recommendation 2.3: Seismic, as amended by the Staff Requirements Memoranda (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 Surry Power Station (SPS) 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 2014 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 SPS, 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 SPS corrective action program (CAP). To date, no significant issues have been identified that challenged the SPS seismic licensing or design basis as a result of the walkdowns.

PAGE

Surry Power Station Seismic Walkdown Summary Report

Table of Contents

SECTION

Execu	utive Summary	ii
Backg	ground	iv
1.0	Seismic Licensing Basis Summary	1-1
2.0	Personnel Qualifications Summary	2-1
2.1	Equipment Selection	2-1
2.2	Seismic Walkdowns	2-1
2.3	Licensing Basis Evaluations	2-1
2.4	IPEEE Review	2-1
2.5	Peer Review	2-1
3.0	SSC Selection	3-1
3.1	Purpose	3-1
3.2	Methodology	3-1
3.3	Results	3-3
3.4	Inaccessible Items	3-5
4.0	Seismic Walkdowns and Area Walk-Bys	4-1
5.0	Licensing Basis Evaluation	5-1
5.1	Summary of Evaluations	5-1
5.2	Plant Modifications	5-1
6.0	IPEEE Vulnerabilities	6-1
7.0	Peer Review Summary	7-1
8.0	References	8-1

Appendix A - Personnel Qualifications (4 pages)

Appendix B - Seismic Walkdown Equipment Lists (SWEL) and Area Walk-By Lists (40 pages)

Appendix C - Unit 1 Seismic Walkdown Checklists (153 pages)

Appendix D - Unit 2 Seismic Walkdown Checklists (147 pages)

Appendix E - Unit 1 Area Walk-by Checklists (67 pages)

Appendix F - Unit 2 Area Walk-by Checklists (47 pages)

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 Memoranda (SRM) to SECY-11-0093) to determine those recommendations that should be implemented without unnecessary delay. In SECY-11-0124, the NRC staff identified the NTTF recommendations that should be implemented without delay, including the development of information requests to be made under 10 CFR 50.54(f).

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

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

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

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

The nuclear power industry and the NRC agreed to cooperate in the development of guidelines and procedures to perform the seismic walkdowns. The resulting EPRI Report No. 1025286, *Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic* (EPRI 1025286) (Reference 2) provides guidance and procedures for performing the seismic walkdowns. The guidance addresses selection of personnel, selection of a sample of structures, systems, and components (SSCs) that represent a diversity of component types and ensures inclusion of components from critical systems and functions as described in the NRC's 50.54(f) letter, conduct of the walkdowns, evaluations against the plant seismic licensing basis, and reporting requirements. EPRI 1025286 also includes checklists to be used by the seismic walkdown engineers for seismic evaluations. The guidance contained in EPRI 1025286 was developed to meet NRC's objectives, and in a letter dated May 31, 2012 (Reference 3), the NRC confirmed that the EPRI 1025286 guidance directs licensees to perform walkdowns in a manner that will address Requested Information Items 1.a through 1.g in the 50.54(f) letter. The NRC staff also confirmed that Section 8, "Submittal Report," of the EPRI 1025286 guidance outlines the appropriate information to be submitted in response to Requested Information Items 2.a through 2.f. of Enclosure 3 of the 50.54(f) letter.

Dominion used the EPRI 1025286 guidance in developing and performing the seismic walkdowns at Surry Power Station (SPS) 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 Surry 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.

3

1.0 Seismic Licensing Basis Summary

The seismic licensing basis for SPS is documented in the Updated Final Safety Analysis Report (UFSAR) (Reference 4). Class I structures, systems and components are designed to resist seismic forces. This design is based on two separate seismic criteria: the operating basis earthquake (OBE) and the design basis earthquake (DBE). The design ground motion is based on the seismicity and geologic conditions at the site. Design ground response spectra used in the design of safety related SSCs are developed for the OBE and the DBE conditions. The earthquake producing the maximum vibratory ground acceleration at the site is designated the DBE. The DBE is often referred to as the Safe Shutdown Earthquake (SSE). The Design Basis Earthquake is the postulated earthquake that produces the maximum vibratory ground motion that the nuclear power generating station is designed to withstand without functional impairment of those features necessary to shut down the reactor, maintain the station in a safe condition, and prevent undue risk to the health and safety of the public.

For SPS, the earthquake producing a maximum horizontal ground acceleration of 0.15g has been designated as the DBE and a maximum horizontal ground acceleration of 0.07g has been designated the OBE.

For the OBE, Class I structures and equipment are designed to withstand a maximum horizontal ground acceleration of 7% of gravity. Vertical acceleration is taken as being two-thirds of horizontal, assumed acting simultaneously and in proper phase to be additive to loads or stresses from horizontal motions.

For the DBE, Class I structures and equipment are designed based on a maximum horizontal ground acceleration of 15% of gravity. The vertical motion is taken to be two-thirds of the horizontal motion, with the two acting simultaneously.

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. SPS 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. UFSAR Section 15A.3.2 discusses the earthquake experience-based method developed for USI A-46 for seismic verification of equipment.

Codes, standards, and methods related to the design of structures and components for SPS can be found in UFSAR Sections 1.4.2, 15.2 and Appendix 15A.

2.0 Personnel Qualifications Summary

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

2.1 Equipment Selection

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

Equipment Selection Personnel: Kurt Rowland, Matthew Winter, supported by licensed plant operations, and design and systems 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, Larry Cullivan, Jr., William Gallagher, Sr., David Germano, Kevin McGuire, Daniel J. Vasquez, Tim Wattleworth, Matthew Winter

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: Kurt Rowland, 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), Leo Nadeau

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

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 Lists, 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 the 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. 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. A SWEL is generated for each unit. 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 for each unit was a combination of the SSEL developed to address NRC Generic Letter 87-02, *Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors, Unresolved Safety Issue (USI) A-46* and the SSEL developed to address NRC Generic Letter 88-20, Supplements 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 the 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 the 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. <u>A variety of types of systems.</u> Sample items were selected to represent a broad range of frontline and support systems included on the SSEL.

- 2. <u>Major new and replacement equipment.</u> A review of the equipment on the SSEL was performed by experienced system engineers, design engineers, and plant operators to identify major new or replacement equipment installed within the last 15 years, consistent with EPRI 1025286 guidance. These items were identified for inclusion in the selection of the samples for SWEL 1.
- 3. <u>A variety of types of equipment.</u> 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. <u>A variety of environments.</u> 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 identified and evaluated for addition to SWEL 2. Identified components that met the criteria for inclusion in the seismic walkdowns were 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.

<u>SWEL</u>

The SWEL for each unit 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 of the unit-specific SSELs 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, Supplements 4 and 5, *Individual Plant Examination of External Events (IPEEE) for Severe Accident Vulnerabilities.* The USI A-46 SSEL was documented in Virginia Electric and Power Company letter to NRC dated November 26, 1997 (Reference 6). The IPEEE SSEL was documented in Virginia Electric and Power Company letter to NRC dated November 26, 1997 (Reference 5). Thus, Base List 1, as defined by EPRI Report 1025286, is the composite USI A-46 and IPEEE SSELs.

The five sample selection attributes, described in Section 3.2, were applied to the SSEL. The results are summarized for each attribute below:

- 1. <u>A variety of types of systems.</u> 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. <u>Major new and replacement equipment.</u> 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. Seven of the 100 components on Unit 1 SWEL 1 were judged to fit the definition of major new or replacement equipment. Six of the 100 components on Unit 2 SWEL 1 were judged to fit the definition of major new or replacement equipment.
- 3. <u>A variety of types of equipment.</u> 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 Unit 1 SSEL for equipment class 13 and no items listed on the Unit 2 SSEL equipment classes 9 and 13, and no items are listed on SWEL 1 for those equipment classes.

- 4. <u>A variety of environments.</u> 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. The number of selected items associated with each of the represented systems is provided in Appendix B.
- 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 100 items per unit. The unit-specific SWEL 1 lists are provided in Appendix B.

For each item on the SWEL 1 lists, 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, risk significant items on SWEL 1 were identified. This information was reviewed by PRA subject matter experts as confirmation that risk insights were adequately considered in the development of SWEL 1. As a result, 50 of the 100 items on Unit 1 SWEL 1 and 45 of the 100 items on Unit 2 SWEL 1 were identified as being 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 in the SFP to less than ten feet above the top of the fuel. The review was supported by a licensed operator and knowledgeable system engineers.

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

• Spent Fuel Pool Cooling and Purification System

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

Rapid Drain-down

Systems interfacing with the SFP were reviewed to identify any components that could, upon failure, result in rapid drain-down of the SFP water level to below ten feet above the top of the fuel. As stated in UFSAR Sections 9.5.2 and 9.5.3.3, the lowest level of pipe penetration through the fuel pool structure is 20 feet above the top of stored fuel elements.

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

<u>SWEL</u>

The SWEL for each unit was developed by combining the items on SWEL 1 and SWEL 2, as applicable. The SWELs for Units 1 and 2 are provided in Appendix B. All items on the list are from SWEL 1 except those items indicated by footnote as originating from SWEL 2.

The items on the SWEL were reviewed to identify those that included anchorage (i.e., items that were not line-mounted equipment, such as valves). For Unit 1, 48 of the 70 items that included anchorage (68%) were selected for confirmation that the as-installed equipment anchorage is consistent with plant documentation of the anchorage design. For Unit 2, 40 of the 60 items that included anchorage (67%) were selected for confirmation that the as-installed equipment anchorage is consistent with plant documentation of the anchorage design. The anchorage is consistent with plant documentation of the anchorage design. The anchorage items selected for confirmation are indicated by a footnote on each of the SWELs.

These lists are the input to the seismic walkdowns to be conducted in accordance with EPRI 1025286, Section 4, Seismic Walkdowns and Area Walk-Bys.

Walk-by areas were identified to include all of the items on the SWEL and are listed in Appendix B.

3.4 Inaccessible Items

In the process of selecting SSCs to be included on the SWEL, items that were accessible and have visible anchorage were selected wherever possible. However, there were 28 items included on the Unit 1 SWEL and 27 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 are 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 2014 for Unit 2).

ID Number	Description	Location	Inspection Completion Schedule	
1-IA-PCV-101	PORV Backup Air	Containment	Fall 2013 RFO	
1-RC-PCV- 1455C	Pressurizer PORV	Containment	Fall 2013 RFO	
1-DA-TV-100A	Containment Sump Dsch Trip Valve	Containment	Fall 2013 RFO	
1-FW-MOV- 151B	AFW Header	Containment	Fall 2013 RFO	
1-FW-MOV- 151E	AFW Header	Containment	Fall 2013 RFO	
1-SI-MOV- 1865A	Accumulator Outlet	Containment	Fall 2013 RFO	
1-VS-AC-1	MCR AC Unit	Service Building	Fall 2013 RFO	
1-VS-AC-7	Relay Room AC Unit Service Buildin		Fall 2013 RFO	
1-EP-DB-1-IA	EE/120V VITAL AC 1-IA BUS (RED)	ESGR	Fall 2013 RFO	
1-EP-DB-1SVB1	EE/120V SEMI-VITAL AC BUS	Control Room	Fall 2013 RFO	
1-FW-FT-100A	AFW Flow Transmitter	Containment	Fall 2013 RFO	
1-IA-PS-103B	PORV Backup Air Pressure Switch	Containment	Fall 2013 RFO	
1-IA-PS-104B	PORV Backup Air Bottle Pressure Switch	Containment	Fall 2013 RFO	
1-SI-TK-1C	SI Accumulator	Containment	Fall 2013 RFO	
1-CW-PNL-1B*	Canal Level Relay Panel	ESGR	Fall 2013 RFO	
1-EP-MCC-1H1- 2N*	Emergency MCC	Cable Vault	Fall 2013 RFO	
1-EP-MCC-1K1*	MCC for Chiller 4A	ESGR	Fall 2013 RFO	
1-EP-MCC-1H- 1B*	MCC for Chiller 4E	MER 5	Fall 2013 RFO	

Table 3-1: Unit 1 Deferred Walkdown Items

ID Number	Description	Location	Inspection Completion Schedule
1-EP-TRAN-1J*	4160-480V Service Transformer	ESGR	Fall 2013 RFO
1-EP-XFRM- 1SVB1-2*	480-120V Semi-Vital Transformer	Control Room	Fall 2013 RFO
1-HT-T-2B3*	Heat Tracing Transformer	Auxiliary	Fall 2013 RFO
1-EPD-DCS-1A- SUB*	EE/125V VITAL DC SUB PNL 1A	ESGR	Fall 2013 RFO
1-MS-BC-1*	MSTV App R SOV Battery Charger	Control Room	Fall 2013 RFO
1-MS-BC-2*	I-MS-BC-2* MSTV App R SOV Battery Charger		Fall 2013 RFO
1-EE-BC-EG1*	EDG 1 Battery Charger	EDG 1 Room	Fall 2013 RFO
1-SW-CAB-3C* Emergency SW Pump Relay Cabinet		ESPH	Fall 2013 RFO
1-CW-PNL-1A*	Canal Level Relay Panel	Cable Vault	Fall 2013 RFO
1-EP-CS-100* CONTROL ROOM CHILLER TRAN SWITCH		Service Building Fall 2013 RFO	

Table 3-1: Unit 1 Deferred Walkdown Items

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

ID Number	Description	Location	Inspection Completion Schedule	
2-BD-TV-200A	S/G A Blowdown Containment Isolation	Containment	Spring 2014 RFO	
2-IA-PCV-201	PORV Backup Air	Containment	Spring 2014 RFO	
2-RC-PCV- 2455C	Pressurize PORV	Containment	Spring 2014 RFO	
2-DA-TV-200A	Containment Sump Dsch Trip Valve	Containment	Spring 2014 RFO	
2-VS-AC-6	ESGR Air Handler	ESGR	Spring 2014 RFO	
2-VS-AC-7	ESGR Air Handler	ESGR	Spring 2014 RFO	
2-FW-MOV- 251B	AFW Header	Containment	Spring 2014 RFO	
2-FW-MOV- 251E	AFW Header	Containment	Spring 2014 RFO	
2-SI-MOV- 2865A	Accumulator Outlet	Containment	Spring 2014 RFO	
2-EP-DB-2-IA	EE/120V VITAL AC 2-IA BUS (RED)	ESGR	Spring 2014 RFO	
2-EP-DB-2SVB1	EE/120V SEMI-VITAL AC BUS	Control Room	Spring 2014 RFO	
2-FW-FT-200A	AFW Flow Transmitter	Containment	Spring 2014 RFO	
2-IA-PS-203B	PORV Backup Air Pressure Switch	Containment	Spring 2014 RFO	
2-IA-PS-204B	PORV Backup Air Bottle Pressure Switch	Containment	Spring 2014 RFO	
2-SI-TK-1C	SI Accumulator	Containment	Spring 2014 RFO	
2-EP-MCC-2H1- 1A*	2H Emergency MCC	EDG 2 Room	Spring 2014 RFO	
2-EP-CS-200*	CONTROL ROOM CHILLER 4B TRANSFER SWITCH	ESGR	Spring 2014 RFO	

Table 3-2: Unit 2 Deferred Walkdown Items

ì

ID Number	Description	Location	Inspection Completion Schedule	
2-EP-MCC-2H1- 2N*	Emergency MCC	Cable Vault	Spring 2014 RFO	
2-EP-MCC-2K1*	MCC for Chiller 4B	ESGR	Spring 2014 RFO	
2-EP-TRAN-2J*	EP-TRAN-2J* 4160-480V Service ESGR Transformer		Spring 2014 RFO	
2-EP-XFRM- 2SVB1-2*	480-120V Semi-Vital Bus	Control Room	Spring 2014 RFO	
2-EP-UPS-2A-1*	EE/UPS 2A1	ESGR	Spring 2014 RFO	
2-EPD-DCS-2A- SUB*	EE/125V VITAL DC SUB PNL 2A	ESGR	Spring 2014 RFO	
2-EP-UPS-2B-2*	EE/UPS 2B2	ESGR	Spring 2014 RFO	
2-MS-BC-2*	MSTV App R SOV Battery Charger	ESGR	Spring 2014 RFO	
2-EE-BC-EG2*	EDG 2 Battery Charger	EDG 2 Room	Spring 2014 RFO	
2-CW-PNL-1A*	Canal Level Relay Panel	ESGR	Spring 2014 RFO	

Table 3-2: Unit 2 Deferred Walkdown Items

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

1

4.0 Seismic Walkdowns and Area Walk-Bys

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

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

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

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

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

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

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

During the walkdown or walk-by, the walkdown teams discussed conditions and/or any findings in the field, reached agreement on the results of the walkdown, and documented results of the seismic walkdowns and area walk-bys on the checklists. The results of the completed seismic walkdowns are documented on SWCs, which are included as 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 39 area walk-bys were defined. The Unit 2 SWEL includes 100 items to be walked down, and 30 area walk-bys were defined. Of the items and areas for Unit 1, 76 walkdowns and 33 area walk-bys have been completed. Of the items and areas for Unit 2, 73 walkdowns and 23 area walk-bys have been completed. The remaining items, 28 walkdowns and 6 area walk-bys for Unit 1 and 27 walkdowns and 7 area walk-bys 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 Surry 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.

SWC / AWC #	Equipment ID	САР	Description	Resolution	Status
SP1-WB-009	N/A ~	CR485502	A large CO_2 fire extinguisher cart located near safety-related equipment not secured in accordance with the Seismic Housekeeping procedure.	Fire extinguisher cart secured in accordance with Seismic Housekeeping procedure.	CLOSED
SP1-WB-040	1-VS-FE-101	CR485515	More than minor corrosion identified on the bolting of 1-VS-AC-1 outlet flow element 1-VS-FE-101.	The corrosion is not an immediate seismic concern as there is no evidence of significant material loss.	Work Order initiated to replace the corroded bolting.
SP1-WB-031	1-SW-MOV-101A	CR485518	Two sections of grating over 1-SW-MOV-101A were found with clips unattached.	Both of the gratings have at least two other clips engaged providing adequate support for the gratings.	Work Order initiated to restore grating clips.
SP1-WB-045	1-CC-E-1C	CR485527	Conduit clamps unattached on a vertical run of conduit above 1-CC-E-1C.	There are conduit clamps upstream and downstream of this location providing adequate support for the conduit.	Work Order initiated to install conduit clamps.
SP1-WB-009	1-VS-1040	CR485530	More than minor corrosion was identified for a small-bore chilled water pipe support.	The corrosion is not an immediate seismic concern since the bolts do not show signs of excessive loss of material and the seismic loads for the restrained small bore piping are minimal.	Work Order initiated to replace the corroded bolting.
SP1-WB-045	1-CC-E-1B	CR485533	1" Copper pipe support missing U-bolt above 1- CC-E-1B.	The support is providing adequate vertical support at this location.	Work Order initiated to install u-bolt.
SP1-WB-045	1-CC-E-1A	CR485535	1" Copper pipe rod hanger unattached above 1- CC-E-1A.	The supports upstream and downstream of this location are actively supporting the pipe and provide adequate vertical support.	Work Order initiated to re-attach rod hanger.
SP1-WB-030	1-CW-SHD-106B1	CR485552	Spray Shield 1-CW-SHD-106B1, North Panel, has a loose bolt along the base flange (spray shield at the 1B Water Box Inlet).	This does not challenge the seismic structure, but should be repaired for conformance with standard configuration.	Work Order initiated to restore bolt configuration.
SP1-WD- SWEL-098	1-EE-TK-3	CR485564	The hold down strap for Emergency Light Battery 1-ELT-LF-126 above 1-EE-TK-3 is misaligned. In the as-identified configuration the hold down strap is not configured to support the light during a seismic event.	There are no seismically sensitive targets near this emergency light were it to fail during a seismic event.	Work Order initiated to restore hold down strap configuration.
SP1-WD- SWEL-014	1-EP-LCC-1H	CR485670	The door opening of the bottom level, center cube is covered with a blank panel attached to the door with bolts and washers. The fasteners were missing at 2 of 4 connections for blank cover over 1-EP-LCC-1H cubicle. The Blank is well secured, and is not a seismic challenge, however, the fasteners should be replaced to restore configuration.	The cover is well secured, and is not a seismic challenge, however, the fasteners will be replaced to restore configuration.	Work Order initiated to restore fastener configuration.

Table 4-1: Unit 1 Potentially Adverse Seismic Conditions

٠

....

SWC / AWC	Equipment ID	САР	Description	Resolution	Status
SP1-WB-018	HT-TB 2BID	CR485682	No grout under heat trace boxes HT-TB 2BID and 2AID support baseplates.	This is not a seismic concern, but the base plates should be shimmed or grouted to provide a bearing surface.	Work Order initiated to install grout.
SP1-WD- SWEL-049	1-CW-37	CR485699	Tubing run is poorly supported on both the east and west side of the condenser waterbox.	This is not a seismic challenge, but will be repaired for conformance with standard support conditions.	Work Order initiated to restore supports.
SP1-WD- SWEL-049	1-CW-RTD-100A	CR485704	Conduit Support was found unattached for 1- CW-RTD-100A.	This does not challenge the seismic structure of the valve, but will be repaired for conformance with standard support conditions.	Work Order initiated to restore supports.
SP1-WD- SWEL-010*	1-EP-MCC-1H1- 2N	CR485713	Four out of forty-four anchor bolts were identified to be missing on 1-EP-MCC-1H1-2N.	Existing MCC anchorage calculations provide an evaluation which envelops the missing bolts identified for 1-EP-MCC-1H1- 2N. Therefore, there are no seismic functionality concerns for 1-EP-MCC-1H1- 2N in the as-found condition with four anchor bolts missing.	Corrective action initiated to document the as- found condition of 1- EP-MCC-1H1-2N anchorage in MCC anchorage calculation.
SP1-WB-030	1-CW-MOV-100A	CR485753	2" power supply conduit for 1-CW-MOV-100A not properly secured to the unistrut.	The conduit is adequately supported; however, the loose/missing supports should be restored to conform with standard maximum unsupported length requirements.	Work Order initiated to restore supports.
SP1-WB-020	N/A	CR485970	Abandoned small-bore copper tubing routed through overhead above safety-related components. The installation does not meet Seismic II/I supporting standards.	The abandoned tubing is routed such that existing station components will maintain the location of the tubing. It is lightweight and does not contain fluids that could be discharged and affect the operation of station safety related equipment. There is no adverse seismic interaction concern.	Work Order initiated to remove abandoned tubing.
SP1-WD- SWEL-020	1-CH-P-1A	CR485989	1-CH-P-1A lube oil bearing temperature element conduit supports loose or missing.	The connection and rigidity of the conduit were inspected and found not to pose an immediate threat to the functionality of the equipment.	Work Order initiated to restore support configuration.
SP1-WB-009	1-VS-1035	CR485500 CR485530 CR486137 CR486138	More than minor corrosion identified on flange bolts and chilled water pipe restraint bolts.	There are no immediate functionality concerns for this line since the bolts did not show signs of excessive loss of material and also the seismic loads for the restrained small bore piping are minimal.	Work Order initiated to replace the corroded bolts.

Table 4-1: Unit 1 Potentially Adverse Seismic Conditions

SWC / AWC	Equipment ID	САР	Description	Resolution	Status
SP1-WB-004	1-SW-MOV-102B	CR486148	Loose conduit clamp and unistrut anchor bolts missing for 1-SW-MOV-102B.	The conduit supports upstream and downstream were found properly installed and this condition is not a seismic challenge to the conduit.	Work Order initiated to restore support configuration.
SP1-WB-040	1-VS-FE-101	CR486151	Pipe support upstream of 1-VS-FE-101 had bolts identified with more than minor corrosion.	The corrosion is not an immediate seismic concern as there is no evidence of significant material loss.	Work Order initiated to replace corroded bolts.
SP1-WB-040	1-VS-AC-1	CR486154	Valve 1-VS-217 more than minor surface corrosion. This is a small manual valve without a large extended structure.	The identified corrosion does not represent an immediate seismic concern since seismic induced loading on the valve body is not significant.	Work Order initiated to investigate the extent and repair the corrosion on 1-VS- 217.
SP1-WB-004	Support H-5	CR486171	More than minor surface corrosion on a small area of pipe support baseplate and anchor bolts.	Based on a review of the support calculation, the predominant support loading is in the downward direction (anchor bolt compression). Moderate corrosion will not affect the ability of the support to perform its design function.	Work Order initiated to clean and recoat support.
SP1-WB-020	3"-CC-73-151	CR486176	3" CC line spring hanger has signs of significant surface corrosion.	The identified corrosion does not represent an immediate seismic concern since the hanger is loaded in the allowable range and continues to support the piping.	Work Order initiated to clean and recoat support.
SP1-WD- SWEL-076	1-SW-P-1C	CR486253	1-SW-P-1C-ENGINE anchor bolt nut found not tight to the washers (1/16" gap, washer rotates, but the nut was unable to be turned by hand).	Review of the Emergency SW Pump Diesel Engine anchorage calculation determined that this condition is evaluated and found acceptable for the 1-SW-P-1B-ENGINE. Therefore, 1-SW-P-1C-ENGINE is anchorage condition is acceptable.	Work Order initiated to restore anchorage configuration.
SP1-WB-021	1-SW-P-1C	CR486256	Service Water Diesel Pump Fuel Oil Line pipe support found with 1 of 4 anchor bolts broken.	The pipe support anchorage calculation bounds the anchor bolt loading conditions with a broken anchor. Therefore, the support is adequate for seismic loading.	Work Order initiated to restore anchorage configuration.
SP1-WB-021	1-SW-P-1C	CR486287	Emergency lights hanging by the wires in the ESWP House.	The lamps are lightweight and not expected to affect an SSC even if they were to fall	Work Order initiated to re-support light.
SP1-WD- SWEL-076	1-SW-P-1C	CR486318	1-SW-P-1C-ENGINE concrete foundation spalling.	The spall is superficial in nature and limited to an area away from the concrete that provides the support load path for the ESW Pump diesel and is not in the critical area for the support anchor bolts. The foundation is structurally sound with no operability concerns.	Work Order initiated to restore the concrete.

Table 4-1: Unit 1 Potentially Adverse Seismic Conditions

SWC / AWC #	Equipment ID	САР	Description	Resolution	Status
SP1-WD- SWEL-089*	1-SW-CAB-3C	CR486337	More than mild surface corrosion was noted on the base angle support and both anchor bolts for 1-SW-CAB-3C.	The identified corrosion does not represent an immediate seismic concern since seismic induced loading on this support is not significant.	Work Order initiated to clean and coat the lower base angle and both anchor bolts.
SP1-WB-039	N/A	CR486390	Seismic housekeeping issue -Unlatched rear door on panel.	Due to the lightweight nature of the cabinet door, there are no immediate seismic concerns.	Work Order initiated to repair broken latch on cabinet door.
SP1-WB-003	1-VS-P-1B	CR486465	1-VS-P-1B pump support minor loose surface rust.	The minor loose surface rust is not considered to be a seismic challenge.	Work Order initiated to clean and recoat the support.
SP2-WB-038	1-FC-P-1B	CR486477	A 3" conduit not attached to the trapeze unistrut support over 1-FC-P-1B.	The conduit is boxed in at the trapeze unistrut support, supported upstream of this location at a JB attached to the south wall, and downstream of this location at the cable tray. Therefore, the conduit is protected from falling on any equipment below.	Work Order initiated to restore support configuration.
SP2-WB-038	N/A	CR486496	A ventilation cart north of 1-FC-E-1A/1B, in the Fuel Building (el. 6') not properly stored in accordance with Seismic Housekeeping procedure.	Cart moved and stored in accordance with Seismic Housekeeping procedure.	CLOSED
SP1-WD- SWEL-003	1-VS-S-1B	CR486517	Cracking concrete on the pedestal for 1-VS-S- 1B. The cracking is present on the NW and SW corners of the pedestal and a spall (6"x3"x1" deep) is located on the SE corner.	The strainer is anchored using 5/8" diameter bolts that are doweled into the MER 3 floor slab. The identified spalling and cracking does not affect the anchorage of the strainer. Due to the adequate anchorage configuration, the anchorage for the strainer is considered functional and there are no immediate seismic concerns.	Work Order initiated to repair concrete pedestal.
SP2-WB-038	1-FC-4	CR486523	Gaps measuring approximately 1/4" to 3/8" (max.) identified between wall and baseplates for the pipe support upstream of Valve 1-FC-4.	Based on review of support calculation, the loads applied to the wall baseplates of this support are small and therefore there is sufficient margin to accommodate the increase in loading due to the gaps underneath the plate.	Work Order initiated to install shim plates underneath the plate at the location of the anchor bolts.
SP2-WB-038	1-FC-E-1B	CR486527	Gaps measuring approximately 1/4" to 3/8" (max.) were identified underneath the lower wall-mounted baseplates for pipe support on the CC outlet line from 1-FC-E-1B.	Based on review of support calculation, there is sufficient margin to accommodate the increase in loading due to the gaps underneath the plate.	Work Order initiated to install shim plates underneath the plate at the location of the anchor bolts.

Table 4-1: Unit 1 Potentially Adverse Seismic Conditions

SWC / AWC #	Equipment ID	САР	Description	Resolution	Status
SP2-WB-038	1-FC-14	CR486528	Gaps measuring approximately 1/4" to 3/8" (max.) identified underneath the ceiling- mounted baseplates for the pipe support upstream of Valve 1-FC-14.	Based on review of support calculation, there is sufficient margin to accommodate the increase in loading due to the gaps underneath the plate.	Work Order initiated to install shim plates underneath the baseplate at the location of the anchor bolts.

Table 4-1: Unit 1 Potentially Adverse Seismic Conditions

* The seismic walkdown for this item is not complete (see Table 3-1) and the final seismic walkdown checklist is not included in the report.

SWC / AWC #	Equipment ID	САР	Description	Resolution	Status
SP2-WB-015	2-RS-P-2B	CR485627	2-RS-P-2B is supported laterally by a Containment wall mounted support that accomplishes load transfer using friction pads on the vibration control ring, and has limited seismic shake space between Safeguards Building and Reactor Containment Building supported items. The concrete wall at this location should, however, be excavated to create a 3/8" minimum gap between 02-RS-TK- 2B at this location. This will ensure unrestrained movement of the Containment wall during the design basis accident pressure/ thermal displacements.	The potential concrete wall contact point is on a small flange point on 2-RS-TK-2B tangent to the Containment wall and will not generate significant loads to the tank or pump. As a result, this condition is not considered sufficient to adversely affect the component function.	Work Order initiated to restore standard seismic gap space.
SP2-WD- SWEL-012	2-EP-LCC-2H	CR485665	The fasteners were loose or missing at 1 of 4 connections for two blank covers over 2-EP-LCC-2H 480V Emergency Bus cubicles.	The covers are well secured, and are not a seismic challenge, however, the fasteners will be replaced to restore configuration.	Work Order initiated to restore fastener configuration.
SP2-WB-006	N/A	CR485708	Anchor bolt was identified as missing from a cable tray support in the Unit 2 Cable Vault.	The missing anchor bolt does not significantly increase the seismic load on the tray support and there are no immediate functionality concerns for this item.	Work Order initiated to install anchor bolt.
SP2-WD- SWEL-010*	2-EP-MCC-2K1	CR485722	Missing conduit strap securing conduit to trapeze support.	There are no immediate functionality concerns because the conduit is supported by, but not secured to, the trapeze support.	Work Order initiated to replace the missing conduit clamp.
SP2-WD- SWEL-068	2-EP-LP-2S12	CR485926	2-EP-LP-2S12 MCR Lighting Cabinet anchored using 4 toggle bolt anchors 3/8" diameter rather than 1/4 inch wedge type anchor assumed for the support calculation.	The toggle anchors have higher allowable load properties than those used in the calculation. Therefore, the calculation bounds the actual bolts and the panel is acceptable as found.	Corrective action initiated to document the as- found anchorage configuration in the calculation.
SP2-WD- SWEL-019	2-FW-P-3A	CR485972	Non-safety related 2-FW-P-3A heat trace conduit support broken anchor bolt.	The conduit is trapped in the overhead and the loss of one anchor at the conduit junction box support stand does not affect seismic II/I function.	Work Order initiated to replace anchor bolt.
SP2-WD- SWEL-056	2-CH-MOV- 2289B	CR485980	Junction Box support for 2-CH-MOV-2289B power supply is loose at the floor base plate anchor connection. The anchors remain engaged, although the baseplate to anchor connection is loose due to gaps.	Considering the minimal amount of movement of the support, the amount of flexibility in the electrical connections to the box, and that the anchors remain engaged - there is no seismic concern with the support condition.	Work Order initiated to restore support to rigid installation.

Table 4-2: Unit 2 Potentially Adverse Seismic Conditions

`

SWC / AWC #	Equipment ID	САР	Description	Resolution	Status
SP2-WD- SWEL-071	2-EE-B-EG2	CR485998	2-EE-B-EG2 battery rack unistrut channel nut misaligned and not properly engaged.	The rack at the location of the misaligned channel nut is loaded vertically down only. The batteries, which are tightly restrained by side rails, will not overcome their weight in a seismic condition and lift off the rack. Therefore, the identified condition will not compromise the ability of the rack to seismically support the batteries.	Work Order initiated to correct the misaligned channel nut.
SP2-WD- SWEL-071	2-EE-B-EG2	CR486007	Dried battery acid deposits were identified on 2- EE-B-EG2 rack baseplate. There was some mild corrosion on the baseplate (pitting) and the anchors.	There are no seismic concerns due to the identified mild corrosion.	Work Order initiated to remove dried battery acid from baseplate and bolts.
SP2-WD- SWEL-071	2-EE-B-EG2	CR486026	Field installation of battery rack anchors not properly reflected in battery rack anchorage analysis. The existing anchorage configuration is consistent with installation documentation.	There are no immediate functionality concerns for this item as it is a paperwork issue. The battery rack remains capable of performing its design function.	Corrective action initiated to update the battery rack anchorage analysis calculation to reflect as-built conditions.
SP2-WD- SWEL-043	2-CH-P-1A	CR486152	2-CH-P-1A bearing lube oil temperature indicator conduit loose clamps and conduit in contact with nearby flexible conduit in the overhead.	There is no threat to functionality of any equipment due to this issue.	Work Order initiated to restore support configuration.

 Table 4-2: Unit 2 Potentially Adverse Seismic Conditions

* The seismic walkdown for this item is not complete (see Table 3-2) and the final seismic walkdown checklist is not included in the report.

5.0 Licensing Basis Evaluation

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

5.1 Summary of Evaluations

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

5.2 Plant Modifications

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

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

6.0 IPEEE Vulnerabilities

On June 28, 1991, the NRC issued Generic Letter (GL) 88-20, Supplement 4 (with NUREG-1407, *Procedural and Submittal Guidance*) requesting each licensee to perform an individual plant examination of external events (IPEEE) to identify plant-specific severe accident vulnerabilities and to report the results to the Commission together with any licenseedetermined improvements and corrective actions.

The results of the IPEEE Program for SPS were submitted in its Surry Nuclear Power Station Units 1 and 2 Summary Report for IPEEE - Seismic dated November 26, 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 Surry IPEEE Summary Report provides the resolution of issues and outliers resulting in modifications. Table 6.1-1 of the Surry IPEEE Summary Report provides the outstanding mechanical and electrical issues that were identified during walkdown evaluations for the seismic IPEEE review. On April 27, 2000, the Completion of Outstanding Issues Related to IPEEE – Seismic Report (Reference 7) for SPS was submitted, which stated that resolution of the unresolved issues in Table 6.1-1 of the Summary Report specified above was complete.

The SPS 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 the 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 the seismic walkdown packages for 22 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 104 SWCs and 39 AWCs for a total of 143 checklists. Of the 143, forty-one (41) SWCs and fourteen (14) AWCs were peer reviewed representing

 $\overline{}$

38% of the total. Overall, the SWC and AWC were determined to be appropriately detailed and complete.

- c. Unit 2 SWC/AWC There are 100 SWCs and 30 AWCs for a total of 130 checklists. Of the 130, twenty-five (25) SWCs and nine (9) AWCs were peer reviewed representing 26% 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 the 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. <u>Review of Licensing Basis Evaluations</u>

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 the 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, <u>Seismic Walkdown Guidance for Resolution of Fukushima Near-</u> <u>Term Task Force Recommendation 2.3: Seismic</u>, June 2012.
- 3. NRC letter, Endorsement of Electric Power Research Institute (EPRI) Draft Report 1025286, "Seismic Walkdown Guidance," dated May 31, 2012 (ML12145A529).
- 4. Surry UFSAR, Revision 44, Updated 9/27/2012
- 5. Virginia Electric and Power Company Letter S/N 97-665, J. P. O'Hanlon to NRC Document Control Desk, Surry Power Station Units 1 and 2, Summary Report for Individual Plant Examination of External Events (IPEEE) Seismic, November 26, 1997
- Virginia Electric and Power Company Letter S/N 97-664, J. P. O'Hanlon to NRC Document Control Desk, Surry Power Station Units 1 and 2, Summary Report for Resolution of Unresolved Safety Issue (USI) A-46, November 26, 1997
- Virginia Electric and Power Company Letter S/N 00-143, L. N. Hartz to NRC Document Control Desk, Surry Power Station Units 1 and 2 Completion of Outstanding Issues Related to Individual Plant Examination of External Events (IPEEE) – Seismic, Generic Letter (GL) 88-20, Supplements 4 and 5, April 27, 2000.

Appendix A

Personnel Qualifications

Ellery Baker

Summary of Background and Experience:

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

Larry Cullivan, Jr.

Summary of Background and Experience:

- Completed SQUG walkdown training course (2012)
- BET, Mechanical/Structural Engineering
- Masters, Engineering Management
- Forty-four years of civil engineering experience in the nuclear industry, including preparation and implementation civil and mechanical design modifications.

William Gallagher, Sr.

Summary of Background and Experience:

- Completed SQUG walkdown training course (1992)
- BS Civil Engineering
- Thirty-eight years in the nuclear industry and thirty-three with nuclear power plant design activities, including: IE Bulletin 79-14 Walkdown and Seismic Design Evaluation, Seismic Analyses For As-Built Safety-Related Piping Systems, Unresolved Safety Issue A-46 Walk Down and Seismic Design Evaluation, verification of seismic adequacy of equipment in operating plants, supplementary walkdowns for design basis document preparation, seismic design of nuclear power plant building structure, seismic evaluation of cable tray structure, seismic evaluation of piping system supports.

David Germano

Summary of Background and Experience:

- Completed SQUG walkdown training course (2010)
- BS Civil Engineering
- Four years of nuclear seismic engineering experience, including: preparation and implementation of civil and structural plant design modifications, civil and structural calculations.

Kevin McGuire

Summary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Civil Engineering
- Thirty-one years of nuclear seismic engineering experience, including preparation and implementation of civil and structural plant modifications and civil and structural calculations.

Marc Hotchkiss

Summary 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; three years of nuclear plant seismic engineering-related experience.

Leo Nadeau

Summary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Mechanical Engineering/ MS Mechanical Engineering
- Over twenty-five 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.

Kurt Rowland

Summary of Background and Experience:

- PE, Virginia
- Twenty-four years of experience in nuclear as a mechanical engineer and as a Project Manager, of which nineteen were at Surry Power Station

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.

Tim Wattleworth

Summary of Background and Experience:

- Completed 5-day SQUG training (2010)
- BS Civil Engineering/ MS Civil Engineering
- PE, Wisconsin and Florida
- Five years of experience at the Kewaunee Power Station in Rapid Response Design Engineering supporting numerous station project seismic reviews, scaffolds, temporary shielding, and design basis reviews. Performed SQUG walkdown reviews for seismic verification of new and existing equipment adequacy.

Matthew Winter

Summary of Background and Experience:

- Completed 5-day SQUG training (2007)
- BS Civil Engineering
- PE, Virginia
- Twelve years of nuclear seismic engineering experience including preparation and implementation of civil and structural plant modifications, civil and structural calculations, and equipment qualification using SQUG methodology.

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 Seis	smic Walkdowr	n Equipmen	t List (SWEL) 1	1				
Item #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
1	20	1-CW-PNL-1B	Canal Level Relay Panel	Circulating Water	Cable Vault	9'	N		1, 2, 3, 4,5		SP1-WB-008	1,2,3
2	0	1-VS-MOD-101C	Charging Pump Cubicle Exhaust Damper	Ventilation	Auxiliary	2'	N		1, 2, 3		SP1-WB-002	
3	0	1-VS-S-1B	Strainer	Ventilation	MER 3	9'	Y		1, 2, 3, 4, 5		SP1-WB-003	2
4	0	1-SW-REJ-101A	MOV-101A Outlet	Service Water	Turbine	9'	Y		4		SP1-WB-031	
5	0	1-SW-REJ-102A	CC Hx Inlet Header	Service Water	Turbine	9'	Y		4		SP1-WB-004	
6	10	1-VS-AC-219	MER5 AIR HANDLER	Ventilation	MER 5	9'	N		1, 2, 3, 4, 5		SP1-WB-010	2
7	0	1-FW-T-2	Terry Turbine	Auxiliary Feedwater	MSVH	27'	Y		4		SP1-WB-006	2,3
8	10	1-VS-AC-222	MER5 AIR HANDLER	Ventilation	MER 5	9'	N		1, 2, 3, 4, 5		SP1-WB-010	2
9	0	1-MS-GOV-005	Terry Turbine Governor Valve	Main Steam	MSVH	27'	Y		4		SP1-WB-006	
10	1	1-EP-MCC-1H1-2N	Emergency MCC	Electrical Power	Cable Vault	15'	Y		1, 2, 3, 4, 5	Y	SP1-WB-008	1,2
11	1	1-EP-MCC-1K1	MCC for Chiller 4A	Electrical Power	ESGR	9'	Y		1, 2, 3, 4, 5		SP1-WB-009	1,2,3
12	1	1-EP-MCC-1H-1B	MCC for Chiller E	Electrical Power	MER 5	9'	Y		1, 2, 3, 4, 5		SP1-WB-010	1,2
13	2	1-RP-BKR-52-BYB	Rx Trip Breaker Bypass	Reactor Protection	Cable Spreading Room	45'	Y		1		SP1-WB-011	2
14	2	1-EP-LCC-1H	480V Emergency Bus	Electrical Power	ESGR	9'	Y		1,2,3,4,5		SP1-WB-009	2,3
15	2	1-EP-LCC-1H1	480V Emergency Bus	Electrical Power	ESGR	9'	Y		1, 2, 3, 4, 5		SP1-WB-009	2,3
16	3	1-EP-BKR-15J9	Stub Bus Tie Breaker	Electrical Power	ESGR	9'	N		1, 2, 3, 4, 5		SP1-WB-009	2

				Unit 1 Sei	smic Walkdowr	n Equipmen	t List (SWEL) 1					
Item #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
17	4	1-EP-TRAN-1J	4160-480V Service Transformer	Electrical Power	ESGR	9'	Y		2, 4, 5	Y	SP1-WB-009	1,2,3
18	4	1-EP-XFRM-1SVB1- 2	480-120V Semi-Vital Transformer	Electrical Power	Control Room	27'	N		1, 2, 3, 4, 5		SP1-WB-012	1,2,3
19	4	1-HT-T-2B3	Heat Tracing Transformer	Heat Tracing	Auxiliary	27'	N		1		SP1-WB-013	1,2,3
20	5	1-CH-P-1A	Charging Pump	cvcs	Auxiliary	2'	Y		1, 2, 3		SP1-WB-014	2,3
21	5	1-EE-P-1C	EDG 3 FO Transfer Pump	EDG	FOPH	16'	Y		1, 2, 3, 4,5		SP1-WB-015	2,3
22	5	1-CS-P-1A	CONTAINMENT SPRAY PUMP	Containment Spray	CSPH	27'	Y		5		SP1-WB-048	2,3
23	5	1-FW-P-2	Steam Driven Aux Feed Pump	Auxiliary Feedwater	MSVH	27'	Y	Y	4		SP1-WB-006	2,3
24	5	1-FW-P-4A	Emergency Cond Makeup Pump	Auxiliary Feedwater	CSPH	11'	N		4		SP1-WB-017	2,3
25	5	1-CC-P-1A	CC Pump	Component Cooling	Auxiliary	2'	Y		4		SP1-WB-018	2,3
26	5	1-FP-P-2	Diesel Fire Pump	Fire Protection	Fire Pump House	27'	N		4		SP1-WB-019	2,3
27	6	1-CC-P-2A	Charging Pump CC Pump	Component Cooling	Auxiliary	2'	Y		1, 2, 3		SP1-WB-020	2,3
28	6	1-SW-P-10A	Charging Pump SW Pump	Service Water	MER 4	9'	Y	Y	1, 2, 3		SP2-WB-014	2,3
29	6	1-SW-P-1C	Emergency SW Pump	Service Water	ESPH	18'	Y		4		SP1-WB-021	2,3
30	6	1-RS-P-2A	Outside RS Pump	Recirculation Spray	Safeguards	12'	Y		4,5		SP1-WB-022	2
31	6	1-SI-P-1A	Safety Injection Pump	Safety Injection	Safeguards	12'	Y		3,4,5		SP1-WB-022	2
32	6	1-VS-P-1D	Service Water Pump	Ventilation	MER 5	9'	N		4		SP1-WB-010	2

Surry Power Station

				Unit 1 Sei	smic Walkdowr	n Equipment	t List (SWEL) 1	1				1 <u>1</u> 1 1 1
Item #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
33	7	1-FW-HCV-155A	FW/SG A FW BYP FLOW	Feedwater	MER 1	47'	N		4		SP1-WB-026	
34	7	1-MS-PCV-102A	Terry Turbine PCV	Main Steam	MSVH	27'	N		4	-	SP1-WB-006	
35	7	1-DA-TV-103A	OUTSIDE CTMT RET HDR TV	Dearated Drains	Auxiliary	2'	N		5		SP1-WB-020	
36	7	_ 1-LM-TV-100A	LM/LMC TAP 3 & 6 BAROMETER SUP TRIP VALVE	Leakage Monitoring	Auxiliary	13'	N		5		SP1-WB-042	
37	7	1-MS-TV-101A	MS Trip Valve	Main Steam	MSVH	40'	N		4		SP1-WB-024	
38	7	1-MS-TV-120	Terry Turbine Steam Isolation	Main Steam	MSVH	27'	N		4		SP1-WB-006	
39	7	1-LM-TV-100C	LM/LMC TAP 1 & 8 BAROMETER SUP TRIP VALVE	Leakage Monitoring	Auxiliary	13'	N		5		SP1-WB-042	
40	7	1-CV-TV-150A	Cont Vacuum Pump 1B Suction	Containment Vacuum	Auxiliary	2'	N		5		SP1-WB-020	
41	7	1-CC-TV-109B	RHR Outlet Trip Valve	Component Cooling	Auxiliary	2'	Y	Y	4		SP1-WB-020	
42	7	1-FW-FCV-1488	Main Feed Reg Valve	Feedwater	MER 1	47'	N -	Y	4		SP1-WB-026	
43	7	1-IA-PCV-101	PORV Backup Air	Instrument Air	Containment	47'	N		2, 3		SP1-WB-027	1
44	7	1-RC-PCV-1455C	Pressurizer PORV	Reactor Coolant	Containment	47'	Y		2, 3		SP1-WB-027	1
45	7	1-DA-TV-100A	Containment Sump Dsch Trip Valve	Dearated Drains	Containment	-3'	N	Y	5		SP1-WB-028	1
46	8	1-CS-MOV-101A	CS Pump Dsch	Containment Spray	CSPH	11'	Y		3		SP1-WB-017	
47	8	1-CS-MOV-102A	Chemical Addition Tank Isolation	Containment Spray	CSPH	11'	N	Y	3		SP1-WB-017	
48	8	1-CW-MOV-100A	Condenser Outlet	Circulating Water	Turbine	9'	N		4		SP1-WB-030	

				Unit 1 Sei	smic Walkdowr	n Equipment	List (SWEL) 1					
ltem #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
49	8	1-CW-MOV-106A	Condenser Inlet	Circulating Water	Turbine	9'	Y .		4		SP1-WB-030	
50	8	1-CW-MOV-106C	Condenser Inlet	Circulating Water	Turbine	9'	Y		4		SP1-WB-030	
51	8	1-SW-MOV-101A	BC Hx Isolation	Service Water	Turbine	9'	Y		4		SP1-WB-031	
52	8	1-CH-MOV-1267A	CH/CHARGING PUMP INLET ISOL	CVCS	Auxiliary	2'	N		1, 2, 3		SP1-WB-014	
53	8	1-CH-MOV-1275A	CH/CHARGING PUMP RECIRC	CVCS	Auxiliary	2'	N		1, 2, 3		SP1-WB-014	
54	8	1-FW-MOV-151B	AFW Header	Auxiliary Feedwater	Containment	47'	Y		4		SP1-WB-033	1
55	8	1-FW-MOV-151E	AFW Header	Auxiliary Feedwater	Containment	47'	Y		4		SP1-WB-033	1
56	8	1-SI-MOV-1865A	Accumulator Outlet	Safety Injection	Containment	-27'	N		2		SP1-WB-032	1
57	9	1-VS-F-58A	Filter 3A Exhaust Fan	Ventilation	Auxiliary	47'	Y		1, 2, 3, 4		SP1-WB-034	2,3
58	9	1-VS-F-58B	Filter 3B Exhaust Fan	Ventilation	Auxiliary	47'	Y		1, 2, 3, 4		SP1-WB-034	2,3
59	10	1-VS-AC-1	MCR AC Unit	Ventilation	Service	27'	N		1, 2, 3, 4, 5		SP1-WB-040	1,2,3
60	10	1-VS-AC-7	Relay Room AC Unit	Ventilation	Service	9'	Y		1, 2, 3, 4, 5	Y	SP1-WB-039	1,2
61	11	1-CS-MR-1B	RWST Refrigeration Unit	Containment Spray	Yard	27'	N		3, 5		SP1-WB-035	2
62	11	1-VS-E-4B	Chiller	Ventilation	MER 3	9'	Y		1, 2, 3, 4, 5		SP1-WB-003	2,3
63	11	1-VS-E-4E	MCR/ESGR Chiller	Ventilation	MER 5	9'	Y		1,2,3,4,5		SP1-WB-010	2,3
64	12	1-EG-C-2	EDG Air Compressor	EDG	EDG 1 Room	27'	N		1, 2, 3, 4		SP1-WB-001	2,3
65	12	1-IA-C-1	Instrument Air Compressor	Instrument Air	Turbine	9'	N	<u></u>	4		SP2-WB-030	2,3
66	14	1-EP-DB-1-IA	EE/120V VITAL AC 1- IA BUS (RED)	Electrical Power	ESGR	9'	Y		1,2,3,4,5		SP1-WB-009	1,2,3

				Unit 1 Sei	smic Walkdowr	n Equipmen	t List (SWEL) 1				····	
Item #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
67	12	1-EP-DB-1SVB1	EE/120V SEMI-VITAL AC BUS	Electrical Power	Control Room	27'	N		1,2,3,4,5		SP1-WB-012	1,2,3
68	14	1-EPD-DCS-1A-SUB	EE/125V VITAL DC SUB PNL 1A	Electrical Power	ESGR	9'	Y		1,2,3,4,5		SP1-WB-009	1,2,3
69	14	1-EPD-LP-1EC1	Emergency Lighting Panel	Electrical Power	MCR Computer Room	27'	N		1, 2, 3, 4, 5		SP1-WB-038	2
70	15	1-SW-B-1C	Emergency SW Pump Battery	Service Water	ESPH	18'	Y		4	Y	SP1-WB-021	2
71	15	1-EE-B-EG1	EDG Battery	EDG	EDG 1 Room	27'	Y		1, 2, 3, 4		SP1-WB-001	2,3
72	15	1-EPD-B-1A	125V Battery	Electrical Power	Battery Room	9'	Y		1, 2, 3, 4, 5		SP1-WB-047	2,3
73	16	1-MS-BC-1	MSTV App R SOV Battery Charger	Main Steam	MCR Computer Room	27'	N		4		SP1-WB-038	1,2,3
74	16	1-MS-BC-2	MSTV App R SOV Battery Charger	Main Steam	ESGR	9'	N		4		SP1-WB-009	1,2,3
75	17	1-EE-EG-1	Emergency Diesel Generator	EDG	EDG 1 Room	27'	Y		1, 2, 3, 4		SP1-WB-001	2,3
76	17	1-SW-PENG-1C	Emergency SW Pump Diesel	Service Water	ESPH	18'	Y		4		SP1-WB-021	2,3
77	18	1-CC-PS-103	CH Pump CC Pressure Switch	Component Cooling	Auxiliary	2'	Y		1, 2, 3		SP1-WB-020	2,3
78	18	1-CN-LT-100	ECST Level Transmitter	Auxiliary Feedwater	Yard	27'	N		4		SP1-WB-041	
79	18	1-CS-LT-100B	RWST Level	Containment Spray	Yard	27'	N		3, 5		SP1-WB-035	
80	18	1-RC-LT-1321	RVLIS B N-Range Level	Reactor Coolant	Auxiliary	13'	N		3		SP1-WB-042	2,3
81	18	1-FW-FT-100A	AFW Flow Transmitter	Auxiliary Feedwater	Containment	18'	N		4		SP1-WB-043	1,2
82	18	1-IA-PS-103B	PORV Backup Air Pressure Switch	Instrument Air	Containment	53'	N		2, 3		SP1-WB-044	1,2

				Unit 1 Sei	smic Walkdowr	n Equipmen	t List (SWEL) 1					
ltem #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
83	18	1-IA-PS-104B	PORV Backup Air Bottle Pressure Switch	Instrument Air	Containment	53'	N		2, 3		SP1-WB-044	1,2
84	19	1-CC-RTD-109B	RHR Hx Outlet Temp	Component Cooling	Auxiliary	2'	N		4		SP1-WB-020	
85	19	1-CH-TIC-1107	BAST A Temp	CVCS	Auxiliary	13'	N		1		SP1-WB-042	2,3
86	19	1-CH-TIC-1164	BAST B Temp	cvcs	Auxiliary	13'	N		1		SP1-WB-042	2,3
87	19	1-CS-RTD-100A	RWST Temp	Containment Spray	Yard	27'	N		3, 5		SP1-WB-035	
88	16	1-EE-BC-EG1	EDG 1 Battery Charger	EDG	EDG 1 Room	27'	Y	Y	1,2,3,4,5		SP1-WB-001	1,2,3
89	20	1-SW-CAB-3C	Emergency SW Pump Relay Cabinet	Service Water	ESPH	18'	N		4		SP1-WB-021	1,2,3
90	20	1-CW-PNL-1A	Canal Level Relay Panel	Circulating Water	Cable Vault	9'	Y		4		SP1-WB-008	1,2,3
91	14	1-EP-CS-100	CONTROL ROOM CHILLER MAN TRAN SWITCH	Electrical Power	ESGR	9'	N		4		SP1-WB-009	1,2,3
92	20	1-EP-PNL-ASP	AUX SHUTDOWN PANEL	Electrical Power	ESGR	9'	N		1, 2, 3, 4		SP1-WB-009	2
93	21	1-CC-E-1A	CC Hx	Component Cooling	Turbine	9'	Y	:	4		SP1-WB-045	2,3
94	21	1-CN-TK-1	ECST	Auxiliary Feedwater	Yard	27'	Y		4		SP1-WB-041	2
95	21	1-CS-TK-2	Caustic Storage Tank	Containment Spray	Yard	27'	N		5		SP1-WB-035	2,3
96	21	1-SW-E-8	Emergency SW Pump Brg Oil Cooler	Service Water	ESPH	18'	N		4		SP1-WB-021	2
97	21	1-FW-E-9	FW-P-2 Oil Cooler	Auxiliary Feedwater	MSVH	27'	Y		4		SP1-WB-006	2
98	21	1-EE-TK-3	Fuel Oil Day Tank	EDG	EDG 1 Room	27'	Y		1, 2, 3, 4		SP1-WB-001	2,3

			1	Unit 1 Sei	smic Walkdown	Equipmen	t List (SWEL) 1					
Item #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
99	21	1-EG-TK-2	EDG Air Comp Air Receiver	EDG	EDG 1 Room	27'	Y		1, 2, 3, 4		SP1-WB-001	2
100	21	1-SI-TK-1C	SI Accumulator	Safety Injection	Containment	-27	N		3,4		SP1-WB-032	1,2,3

Notes

1. Not sufficiently accessible to complete the walkdown inspection. To be inspected when accessible.

Has anchorage
Detailed anchorage inspection to be performed

5 Safety Functions

1. Reactor reactivity control

2. Reactor coolant pressure control

Reactor coolant inventory control
Decay heat removal

5. Containment function

2. Unit 2 SWEL 1

				Unit 2 Se	ismic Walkdow	n Equipmen	nt List (SWEL) '	1				
Item #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
1	0	2-VS-MOD-201C	Charging Pump Cubicle Exhaust Damper	Ventilation	Auxiliary	2'	N		1, 2, 3		SP2-WB-001	
2	0	2-SW-REJ-201A	BC Hx Inlet Header	Service Water	Turbine	9'	Y		4		SP2-WB-002	
3	21	1-CH-TK-1C	CH/BORIC ACID STORAGE TANK C (BAST)	CVCS	Auxiliary	13'	Y		1		SP2-WB-011	2,3
4	3	2-EP-BKR-25H9	4kV Emergency Stub Bus Tie Breaker	Electrical Power	ESGR	9'	N		1,2,3,4,5		SP1-WB-009	2,3
5	1	2-EP-MCC-2H1-1A	2H Emergency MCC	Electrical Power	EDG 2 Room	27'	Y		1,2,3,4,5		SP2-WB-029	1,2,3
6	0	2-FW-T-2	Terry Turbine	Auxiliary Feedwater	MSVH	27'	Y		4		SP2-WB-004	2,3
7	2	2-EP-CS-200	CONTROL ROOM CHILLER 4B TRANSFER SWITCH	Electrical Power	ESGR	9'	N		1,2,3,4,5		SP1-WB-009	1,2,3
8	0	2-MS-GOV-005	Terry Turbine Governor Valve	Main Steam	MSVH	27'	Y		4		SP2-WB-004	
9	1	2-EP-MCC-2H1-2N	Emergency MCC	Electrical Power	Cable Vault	15'	Y		1, 2, 3, 4, 5	Y	SP2-WB-006	1,2,3
10	1	2-EP-MCC-2K1	MCC for Chiller 4B	Electrical Power	ESGR	9'	Y		1, 2, 3, 4, 5		SP1-WB-009	1,2,3
11	2	2-RP-BKR-52-BYB	Rx Trip Breaker Bypass	Reactor Protection	Cable Spreading Room	45'	Y		1		SP2-WB-008	2
12	2	2-EP-LCC-2H	480V Emergency Bus	Electrical Power	ESGR	9'	Y		1,2,3,4,5		SP1-WB-009	2,3
13	2	2-EP-LCC-2H1	480V Emergency Bus	Electrical Power	ESGR	9'	Y		1, 2, 3, 4, 5		SP1-WB-009	2,3
14	4	2-EP-TRAN-2J	4160-480V Service Transformer	Electrical Power	ESGR	9'	Y		1,2,3,4,5	Y	SP1-WB-009	1,2,3

Surry Power Station

				Unit 2 Se	ismic Walkdow	n Equipmer	nt List (SWEL)	1			· · · · ·	
ltem #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
15	4	2-EP-XFRM-2SVB1- 2	480-120V Semi-Vital Bus	Electrical Power	ESGR	9'	N		1, 2, 3, 4, 5		SP1-WB-009	1,2,3
16	5	2-CH-P-1A	Charging Pump	CVCS	Auxiliary	2'	Y		1, 2, 3		SP2-WB-010	2,3
17	5	1-CH-P-2C	Boric Acid Transfer Pump	CVCS	Auxiliary	13'	N		1		SP2-WB-011	2
18	5	2-FW-P-2	Steam Driven Aux Feed Pump	Auxiliary Feedwater	MSVH	27'	Y	Y	4		SP2-WB-004	2,3
19	5	2-FW-P-3A	Aux Feed Pump	Auxiliary Feedwater	MSVH	27'	Y		4		SP2-WB-004	2,3
20	5	2-CS-P-1A	CS Pump 1A	Containment Spray	CSPH	27'	Y		5		SP2-WB-041	2,3
21	5	2-FW-P-4A	Emergency Condensate Makeup Pump	Auxiliary Feedwater	CSPH	11'	Y		4		SP2-WB-013	2,3
22	5	1-CC-P-1C	CC Pump	Component Cooling	Auxiliary	2'	Y		4		SP1-WB-018	2,3
23	6	2-CC-P-2B	Charging Pump CC Pump	Component Cooling	Auxiliary	2'	Y		1, 2, 3		SP2-WB-019	2
24	6	2-SW-P-10A	Charging Pump SW Pump	Service Water	MER 4	9'	Y	Y	1, 2, 3		SP2-WB-014	2,3
25	6	2-RS-P-2A	Outside RS Pump	Recirculation Spray	Safeguards	12'	Y		4,5		SP2-WB-015	2
26	6	2-SI-P-1A	Safety Injection Pump	Safety Injection	Safeguards	12'	Y .		3,4,5		SP2-WB-015	2
27	20	2-EP-PNL-ASP	AUX SHUTDOWN PANEL	Electrical Power	ESGR	9'	N		1, 2, 3, 4		SP1-WB-009	2
28	7	2-BD-TV-200A	S/G A Blowdown Containment Isolation	Steam Generator Blowdown	Containment	-3'	N		5		SP2-WB-023	1
29	7	2-FW-HCV-255A	FW/SG A FW BYPASS FLOW	Feedwater	MER 2	47'	N		4		SP2-WB-021	
30	7	2-DA-TV-203A	DA/HRSS WASTE TK PUMP DISCH CIV	Dearated Drains	Auxiliary	2'	N		5	:	SP2-WB-019	

		<u> </u>		Unit 2 Se	ismic Walkdow	n Equipmer	nt List (SWEL) ′	1				
Item #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
31	7	2-MS-PCV-202A	Terry Turbine PCV	Main Steam	MSVH	27'	N		4		SP2-WB-004	
32	7	2-LM-TV-200A	LM/CTMT LEAKAGE MONITORING HDR TRIP VALVE	Leakage Monitoring	Auxiliary	13'	N		5		SP2-WB-042	
33	7	2-FW-HCV-255C	FW/SG C FW BYPASS FLOW	Feedwater	MER 2	47'	N		4		SP2-WB-021	
34	7	2-MS-TV-220	Terry Turbine Steam Isolation	Main Steam	MSVH	27'	N		4		SP2-WB-004	
35	7	2-LM-TV-200C	LM/CTMT LEAKAGE MONITORING HDR TRIP VALVE	Leakage Monitoring	Auxiliary	13'	N		5		SP2-WB-042	
36	7	2-CV-TV-250A	Containment Vacuum Pump 1B Suction	Containment Vacuum	Auxiliary	2'	N	<u> </u>	5		SP2-WB-019	
37	7	2-MS-TV-201A	MS Trip Valve	Main Steam	MSVH	40'	N		4		SP2-WB-020	···
38	7	2-CC-TV-209B	RHR Outlet Trip Valve	Component Cooling	Auxiliary	2'	N	Y	4,5		SP2-WB-019	
39	7	2-FW-FCV-2478	Main Feed Reg Valve	Feedwater	MER 2	47'	N	Y	4		SP2-WB-021	
40	7	2-1A-PCV-201	PORV Backup Air	Instrument Air	Containment	47'	N		2, 3		SP2-WB-022	1
41	7	2-RC-PCV-2455C	Pressurize PORV	Reactor Coolant	Containment	47'	Y		2, 3		SP2-WB-022	1
42	7	2-DA-TV-200A	Containment Sump Dsch Trip Valve	Dearated Drains	Containment	-3'	N	Y	5		SP2-WB-023	1
43	8	2-CH-MOV-2267A	CH Pump Inlet Isolation	CVCS	Auxiliary	2'	N		1, 2, 3		SP2-WB-010	
44	8	2-CS-MOV-201A	CS Pump Dsch	Containment Spray	CSPH	11'	N		3		SP2-WB-013	
45	8	2-CS-MOV-202A	Chemical Addition Tank Isolation	Containment Spray	CSPH	11'	N	Y	3		SP2-WB-013	
46	8	2-CW-MOV-200A	Condenser Outlet	Circulating Water	Turbine	9'	N		4		SP2-WB-024	

~

Į

				Unit 2 Se	ismic Walkdow	n Equipmer	nt List (SWEL) '	1				
ltem #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
47	8	2-CW-MOV-206A	Condenser Inlet	Circulating Water	Turbine	9'	Y		4		SP2-WB-024	
48	8	2-CW-MOV-206C	Condenser Inlet	Circulating Water	Turbine	9'	Y		4		SP2-WB-024	
49	16	2-EP-UPS-2A-1	EE/UPS 2A1	Electrical Power	ESGR	9'	N		1,2,3,4,5		SP1-WB-009	1,2
50	8	2-SW-MOV-201A	BC Hx Isolation	Service Water	Turbine	9'	Y		4	1	SP2-WB-002	
51	10	2-VS-AC-6	ESGR Air Handler	Ventilation	ESGR	9'	Y		1,2,3,4,5		SP1-WB-009	1,2
52	10	2-VS-AC-7	ESGR Air Handler	Ventilation	ESGR	9'	Y `		1,2,3,4,5		SP1-WB-009	1,2
53	8	2-CH-MOV-2275A	CH/CHARGING PUMP RECIRC	CVCS	Auxiliary	2'	N		1, 2, 3		SP2-WB-010	
54	8	2-CH-MOV-2286A	CH/CHARGING PUMP OUTLET TO CHARGING LINE	cvcs	Auxiliary	2'	N		1, 2, 3		SP2-WB-010	
55	8	2-CH-MOV-2289A	CH/CHARGING STOP VALVE	CVCS	Auxiliary	2'	N		1, 2, 3		SP2-WB-019	
56	8	2-CH-MOV-2289B	CH/CHARGING STOP VALVE	CVCS	Auxiliary	2'	N		1, 2, 3		SP2-WB-019	
57	8	2-FW-MOV-251B	AFW Header	Auxiliary Feedwater	Containment	47'	Y		4		SP2-WB-025	1
58	8	2-FW-MOV-251E	AFW Header	Auxiliary Feedwater	Containment	47'	Y		4		SP2-WB-025	1
59	8	2-SI-MOV-2865A	Accumulator Outlet	Safety Injection	Containment	-27'	N		2		SP2-WB-026	1
60	8	1-FW-MOV-160A	AFW Cross-Connect	Auxiliary Feedwater	MSVH	27'	N		4		SP2-WB-004	
61	8	2-SW-MOV-205A	RS Hx Isolation	Service Water	CSPH	11'	N		4		SP2-WB-013	
62	11	2-CS-MR-1B	RWST Refrigeration Unit	Containment Spray	Yard	27'	N		3, 5		SP2-WB-028	2
63	12	2-EG-C-2	EDG Air Compressor	EDG	EDG 2 Room	27'	N		1, 2, 3, 4		SP2-WB-029	2,3

				Unit 2 Se	ismic Walkdow	n Equipmer	nt List (SWEL) '	1				
ltern #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
64	12	2-IA-C-1	Instrument Air Compressor	Instrument Air	Turbine	9'	N		4		SP2-WB-030	2,3
65	14	2-EP-DB-2-IA	EE/120V VITAL AC 2-IA BUS (RED)	Electrical Power	ESGR	9'	Y		1, 2, 3, 4, 5		SP1-WB-009	1,2,3
66	14	2-EP-DB-2SVB1	EE/120V SEMI- VITAL AC BUS	Electrical Power	Control Room	27'	N		1, 2, 3, 4, 5		SP2-WB-003	1,2,3
67	14	2-EPD-DCS-2A- SUB	EE/125V VITAL DC SUB PNL 2A	Electrical Power	ESGR	9'	N		1, 2, 3, 4, 5		SP1-WB-009	1,2,3
68	14	2-EP-LP-2S12	MCR Lighting Cabinet	Electrical Power	ESGR	9'	N		1, 2, 3, 4, 5		SP1-WB-009	2
69	15	2-EPD-B-2A	125V Battery	Electrical Power	Battery Room	9'	Y		1, 2, 3, 4, 5		SP2-WB-007	2,3
70	15	2-EPD-B-2B	125V Battery	Electrical Power	Battery Room	9'	Y		1, 2, 3, 4, 5		SP2-WB-040	2,3
71	15	2-EE-B-EG2	EDG Battery	EDG	EDG 2 Room	27'	Y		1, 2, 3, 4		SP2-WB-029	2,3
72	16	2-EP-UPS-2B-2	EE/UPS 2B2	Electrical Power	ESGR	- 9'	Y		1,2,3,4,5		SP1-WB-009	1,2,3
73	16	2-MS-BC-2	MSTV App R SOV Battery Charger	Main Steam	ESGR	9'	N		4		SP1-WB-009	1,2,3
74	17	2-EE-EG-1	Emergency Diesel Generator	EDG	EDG 2 Room	27'	Y		1, 2, 3, 4		SP2-WB-029	2,3
75	18	2-CC-PS-203	CH Pump CC Pressure Switch	Component Cooling	Auxiliary	2'	Y		1, 2, 3		SP2-WB-019	
76	18	2-CN-LT-200	ECST Level Transmitter	Auxiliary Feedwater	Yard	27'	Y		4		SP2-WB-031	
77	18	2-CC-FT-210A	CC/RHR HX OUTLET FLOW	Component Cooling	Auxiliary	2'	N,		1, 2, 3		SP2-WB-019	2,3
78	18	2-CS-LT-200B	RWST Level	Containment Spray	Yard	27'	N		3		SP2-WB-028	
79	18	2-MS-PT-2484	MS Pressure Transmitter	Main Steam	CSPH	11'	N		2,4,5		SP2-WB-013	2,3

		· · · · ·		Unit 2 Se	ismic Walkdow	n Equipmer	nt List (SWEL)	1				
ltem #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
80	18	2-MS-FT-200	MS Flow Transmitter	Main Steam	CSPH	27'	N		4		SP2-WB-041	2
81	18	2-MS-PT-201A	MS Pressure Transmitter	Main Steam	CSPH	11'	N		4		SP2-WB-013	2
82	18	2-RC-LT-2321	RVLIS B N-Range Level	Reactor Coolant	Auxiliary	13'	N		3		SP2-WB-011	2,3
83	18	2-SW-PS-7	CH Pump SW Pressure Switch	Service Water	MER 4	9'	Y		1, 2, 3		SP2-WB-014	
84	18	2-FW-FT-200A	AFW Flow Transmitter	Auxiliary Feedwater	Containment	18'	N		4		SP2-WB-036	1,2
85	18	2-IA-PS-203B	PORV Backup Air Pressure Switch	Instrument Air	Containment	47'	N		2, 3		SP2-WB-037	1,2
86	18	2-1A-PS-204B	PORV Backup Air Bottle Pressure Switch	Instrument Air	Containment	47'	N		2, 3		SP2-WB-037	1,2
87	19	2-CC-RTD-209B	RHR Hx Outlet Temp	Component Cooling	Auxiliary	2'	N		4		SP2-WB-019	
88	19	1-CH-TIC-1103	BAST A Temp	cvcs	Auxiliary	13'	N .		1		SP2-WB-011	2,3
89	19	1-CH-TIC-1166	BAST B Temp	CVCS	Auxiliary	13'	N		1		SP2-WB-011	2,3
90	19	2-CS-RTD-200A	RWST Temp	Containment Spray	Yard	27'	N		3, 5		SP2-WB-028	
91	16	2-EE-BC-EG2	EDG 2 Battery Charger	EDG	EDG 2 Room	27'	Y		1, 2, 3, 4		SP2-WB-029	1,2,3
92	20	2-CW-PNL-1A	Canal Level Relay Panel	Circulating Water	ESGR	9'	Y		4		SP1-WB-009	1,2,3
93	18	2-MS-PT-2475	MS Pressure Transmitter	Main Steam	CSPH	11'	N.		2,4,5		SP2-WB-013	2,3
94	20	2-RP-CAB-CHIB	REACTOR PROTECTION TRAIN B	Reactor Protection	ESGR	9'	N		1,2,3,4,5		SP1-WB-009	2
95	21	1-CC-E-1D	CC Heat Exchanger	Component Cooling	Turbine	9'	Y		4		SP1-WB-045	2,3
96	21	2-CN-TK-1	ECST	Auxiliary Feedwater	Yard	27'	Y		4		SP2-WB-031	2

Unit 2 Seismic Walkdown Equipment List (SWEL) 1												
Item #	Class	iD	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
97	21	2-CS-TK-2	Caustic Storage Tank	Containment Spray	Yard	27'	Y		5		SP2-WB-028	2,3
98	21	2-FW-E-9	FW-P-2 Oil Cooler	Auxiliary Feedwater	MSVH	27'	Y		4		SP2-WB-004	2
99	21	2-EE-TK-3	EDG 2 FO Day Tank	EDG	EDG 2 Room	27'	Y		1, 2, 3, 4		SP2-WB-029	2
100	21	2-SI-TK-1C	SI Accumulator	Safety Injection	Containment	-27'	N		3,4		SP2-WB-026	1,2,3

Notes

.

1. Not sufficiently accessible to complete the walkdown inspection. To be inspected when accessible. 2. Has anchorage

3. Detailed anchorage inspection performed

5 Safety Functions

1. Reactor 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

ID	Description	System	SWEL2?
01-FC11	SPENT FUEL PIT PUMP 1A DISCH CHK VA	Spent Fuel Pool Cooling	N
01-FC12	SPENT FUEL PIT PUMP 1A DISCH	Spent Fuel Pool Cooling	N
01-FC13	SPENT FUEL PIT PUMP 1B DISCH	Spent Fuel Pool Cooling	N
01-FC14	SPENT FUEL PIT PUMPS 1A/B DISCH XCO	Spent Fuel Pool Cooling	N
01-FC34	SPENT FUEL PIT PUMP 1A SUCT HDR ISO	Spent Fuel Pool Cooling	Ņ
01-FC35	SPENT FUEL PIT PUMP 1B SUCT HDR ISO	Spent Fuel Pool Cooling	Y
01-FC36	SPENT FUEL PIT PUMPS SUCT HDR XTIE	Spent Fuel Pool Cooling	N
01-FC38	FUEL PIT CLR 1A INLET ISOL	Spent Fuel Pool Cooling	N
01-FC4	SPENT FUEL PIT PUMP 1B SUCT	Spent Fuel Pool Cooling	N
01-FC40	FUEL PIT CLR 1B INLET ISOL	Spent Fuel Pool Cooling	Y
01-FC41	FUEL PIT CLR 1B OUTLET	Spent Fuel Pool Cooling	N
01-FC42	FUEL PIT CLR 1A OUTLET	Spent Fuel Pool Cooling	N
01-FC9	SPENT FUEL PIT PUMP 1B DISCH CHK VA	Spent Fuel Pool Cooling	N
01-FC-E-1A	SPENT FUEL PIT CLR 1A	Spent Fuel Pool Cooling	N
01-FC-E-1B	SPENT FUEL PIT CLR 1B	Spent Fuel Pool Cooling	Y
01-FC-P-1A	SPENT FUEL PIT PUMP 1A	Spent Fuel Pool Cooling	N
01-FC-P-1B	SPENT FUEL PIT PUMP 1B	Spent Fuel Pool Cooling	Y
01-FC-PNL-FC1A	1-FC-P-1A STARTER PANEL	Spent Fuel Pool Cooling	N
01-FC-PNL-1A-PDB	FC PUMP 1A NORMAL POWER DISTRIBUTIO	Spent Fuel Pool Cooling	N
01-FC-PNL-1A1B-PDB	FC PUMPS 1A AND 1B ALTERNATE POWER	Spent Fuel Pool Cooling	Ň
01-FC-S-1A	SPENT FUEL PIT PUMP 1A SUCT STRAINE	Spent Fuel Pool Cooling	N
01-FC-S-1B	SPENT FUEL PIT PUMP 1B SUCT STRAINE	Spent Fuel Pool Cooling	N
01-FC-TRAN-FC1A	CONTROL TRANSFORMER FOR 1-FC-P-1A	Spent Fuel Pool Cooling	N
01-FC-TW-100A	SPENT FUEL PIT CLR 1A INLET THERMOW	Spent Fuel Pool Cooling	N
01-FC-TW-100B	SPENT FUEL PIT CLR 1B INLET THERMOW	Spent Fuel Pool Cooling	N
01-FC-TW-101A	SPENT FUEL PIT CLR 1A OUTLET THERMO	Spent Fuel Pool Cooling	N
01-FC-TW-101B	SPENT FUEL PIT CLR 1B OUTLET THERMO	Spent Fuel Pool Cooling	N
02-FC-PNL-FC1B	1-FC-P-1B STARTER PANEL	Spent Fuel Pool Cooling	N
02-FC-PNL-1B-PDB	FC PUMP 1B NORMAL POWER DISTRIBUTIO	Spent Fuel Pool Cooling	N ·
02-FC-TRAN-FC1B	CONTROL TRANSFORMER FOR 1-FC-P-1B	Spent Fuel Pool Cooling	N

.

4. Unit 1 SWEL

	Unit 1 Seismic Walkdown Equipment List (SWEL)											
ltem #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
1	20	1-CW-PNL-1B	Canal Level Relay Panel	Circulating Water	Cable Vault	9'	N		1, 2, 3, 4,5		SP1-WB-008	1,2,3
2	0	1-VS-MOD-101C	Charging Pump Cubicle Exhaust Damper	Ventilation	Auxiliary	2'	N		1, 2, 3		SP1-WB-002	
3	0	1-VS-S-1B	Strainer	Ventilation	MER 3	9'	Y		1, 2, 3, 4, 5		SP1-WB-003	2
4	0	1-SW-REJ-101A	MOV-101A Outlet	Service Water	Turbine	9'	Y		4		SP1-WB-031	
5	0	1-SW-REJ-102A	CC Hx Inlet Header	Service Water	Turbine	9'	Y		4		SP1-WB-004	
6	10	1-VS-AC-219	MER5 AIR HANDLER	Ventilation	MER 5	9'	N		1, 2, 3, 4, 5		SP1-WB-010	2
7	0	1-FW-T-2	Terry Turbine	Auxiliary Feedwater	MSVH	27'	Y		4		SP1-WB-006	2,3
8	10	1-VS-AC-222	MER5 AIR HANDLER	Ventilation	MER 5	9'	N		1, 2, 3, 4, 5		SP1-WB-010	2
9	0	1-MS-GOV-005	Terry Turbine Governor Valve	Main Steam	MSVH	27'	Y		4		SP1-WB-006	
10	1	1-EP-MCC-1H1-2N	Emergency MCC	Electrical Power	Cable Vault	15'	Y		1, 2, 3, 4, 5	Y	SP1-WB-008	1,2
11	1	1-EP-MCC-1K1	MCC for Chiller 4A	Electrical Power	ESGR	9'	Y		1, 2, 3, 4, 5		SP1-WB-009	1,2,3
12	1	1-EP-MCC-1H-1B	MCC for Chiller E	Electrical Power	MER 5	9'	Y		1, 2, 3, 4, 5		SP1-WB-010	1,2
13	2	1-RP-BKR-52-BYB	Rx Trip Breaker Bypass	Reactor Protection	Cable Spreading Room	45'	Y		1		SP1-WB-011	2
14	2	1-EP-LCC-1H	480V Emergency Bus	Electrical Power	ESGR	9'	Y		1,2,3,4,5		SP1-WB-009	2,3
15	2	1-EP-LCC-1H1	480V Emergency Bus	Electrical Power	ESGR	9'	Y		1, 2, 3, 4, 5		SP1-WB-009	2,3
16	3	1-EP-BKR-15J9	Stub Bus Tie Breaker	Electrical Power	ESGR	9'	N		1, 2, 3, 4, 5		SP1-WB-009	2

	Unit 1 Seismic Walkdown Equipment List (SWEL)											
ltem #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
17	4	1-EP-TRAN-1J	4160-480V Service Transformer	Electrical Power	ESGR	9'	Y		2, 4, 5	Y	SP1-WB-009	1,2,3
18	4	1-EP-XFRM-1SVB1-2	480-120V Semi-Vital Transformer	Electrical Power	Control Room	27'	N		1, 2, 3, 4, 5		SP1-WB-012	1,2,3
19	4	1-HT-T-2B3	Heat Tracing Transformer	Heat Tracing	Auxiliary	27'	N		1		SP1-WB-013	1,2,3
20	5	1-CH-P-1A	Charging Pump	CVCS	Auxiliary	2'	Y		1, 2, 3		SP1-WB-014	2,3
21	5	1-EE-P-1C	EDG 3 FO Transfer Pump	EDG	FOPH	16'	Y		1, 2, 3, 4,5		SP1-WB-015	2,3
22	5	1-CS-P-1A	CS/CONTAINMENT SPRAY PUMP	Containment Spray	CSPH	27'	Y.		5		SP1-WB-048	2,3
23	5	1-FW-P-2	Steam Driven Aux Feed Pump	Auxiliary Feedwater	MSVH	27'	Y	Y	4		SP1-WB-006	2,3
24	5	1-FW-P-4A	Emergency Cond Makeup Pump	Auxiliary Feedwater	CSPH	11'	N		4		SP1-WB-017	2,3
25	5	1-CC-P-1A	CC Pump	Component Cooling	Auxiliary	2'	Y		4		SP1-WB-018	2,3
26	5	1-FP-P-2	Diesel Fire Pump	Fire Protection	Fire Pump House	27'	N		4		SP1-WB-019	2,3
27	6	1-CC-P-2A	Charging Pump CC Pump	Component Cooling	Auxiliary	2'	Y		1, 2, 3		SP1-WB-020	2,3
28	6	1-SW-P-10A	Charging Pump SW Pump	Service Water	MER 4	9'	Y	Y	1, 2, 3		SP2-WB-014	2,3
29	6	1-SW-P-1C	Emergency SW Pump	Service Water	ESPH	18'	Y		4		SP1-WB-021	2,3
30	6	1-RS-P-2A	Outside RS Pump	Recirculation Spray	Safeguards	12'	Y		4,5		SP1-WB-022	2
31	6	1-SI-P-1A	Safety Injection Pump	Safety Injection	Safeguards	12'	Y		3,4,5		SP1-WB-022	2
32	6	1-VS-P-1D	Service Water Pump	Ventilation	MER 5	9'	N		4		SP1-WB-010	2

	Unit 1 Seismic Walkdown Equipment List (SWEL)											
ltem #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
33	7	1-FW-HCV-155A	FW/SG A FW BYP FLOW	Feedwater	MER 1	47'	N		4		SP1-WB-026	
34	7	1-MS-PCV-102A	Terry Turbine PCV	Main Steam	MSVH	27'	N		4		SP1-WB-006	
35	7	1-DA-TV-103A	OUTSIDE CTMT RET HDR TV	Dearated Drains	Auxiliary	2'	N		5		SP1-WB-020	
36	7	1-LM-TV-100A	LM/LMC TAP 3 & 6 BAROMETER SUP TRIP VALVE	Leakage Monitoring	Auxiliary	13'	N		5		SP1-WB-042	
37	7	1-MS-TV-101A	MS Trip Valve	Main Steam	MSVH	40'	N		4		SP1-WB-024	
38	7	1-MS-TV-120	Terry Turbine Steam Isolation	Main Steam	MSVH	27'	N		4		SP1-WB-006	
39	7	1-LM-TV-100C	LM/LMC TAP 1 & 8 BAROMETER SUP TRIP VALVE	Leakage Monitoring	Auxiliary	13'	N		5		SP1-WB-042	
40	7	1-CV-TV-150A	Cont Vacuum Pump 1B Suction	Containment Vacuum	Auxiliary	2'	N		5		SP1-WB-020	
41	7	1-CC-TV-109B	RHR Outlet Trip Valve	Component Cooling	Auxiliary	2'	Y	Y	4		SP1-WB-020	
42	7	1-FW-FCV-1488	Main Feed Reg Valve	Feedwater	MER 1	47'	N	Y	4		SP1-WB-026	
43	7	1-IA-PCV-101	PORV Backup Air	Instrument Air	Containment	47'	N		2, 3		SP1-WB-027	1
44	7	1-RC-PCV-1455C	Pressurizer PORV	Reactor Coolant	Containment	47'	Y		2, 3		SP1-WB-027	1
45	7	1-DA-TV-100A	Containment Sump Dsch Trip Valve	Dearated Drains	Containment	-3'	N	Y	5		SP1-WB-028	1
46	8	1-CS-MOV-101A	CS Pump Dsch	Containment Spray	CSPH	11'	Y		3		SP1-WB-017	
47	8	1-CS-MOV-102A	Chemical Addition Tank Isolation	Containment Spray	CSPH	11'	N	Y	3		SP1-WB-017	
48	8	1-CW-MOV-100A	Condenser Outlet	Circulating Water	Turbine	9'	N		4		SP1-WB-030	

	Unit 1 Seismic Walkdown Equipment List (SWEL)											
ltem #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
49	8	1-CW-MOV-106A	Condenser Inlet	Circulating Water	Turbine	9'	Y		4		SP1-WB-030	
50	8	1-CW-MOV-106C	Condenser inlet	Circulating Water	Turbine	9'	Y		4		SP1-WB-030	
51	8	1-SW-MOV-101A	BC Hx Isolation	Service Water	Turbine	9'	Y		4		SP1-WB-031	
52	8	1-CH-MOV-1267A	CH/CHARGING PUMP INLET ISOL	CVCS	Auxiliary	2'	N .		1, 2, 3		SP1-WB-014	
53	8	1-CH-MOV-1275A	CH/CHARGING PUMP RECIRC	CVCS	Auxiliary	2'	N		1, 2, 3		SP1-WB-014	
54	8	1-FW-MOV-151B	AFW Header	Auxiliary Feedwater	Containment	47':	Y		4		SP1-WB-033	1
55	8	1-FW-MOV-151E	AFW Header	Auxiliary Feedwater	Containment	47'	Y		4		SP1-WB-033	1
56	8	1-SI-MOV-1865A	Accumulator Outlet	Safety Injection	Containment	-27'	N		2		SP1-WB-032	1
57	9	1-VS-F-58A	Filter 3A Exhaust Fan	Ventilation	Auxiliary	47'	Y		1, 2, 3, 4		SP1-WB-034	2,3
58	9	1-VS-F-58B	Filter 3B Exhaust Fan	Ventilation	Auxiliary	47'	Y		1, 2, 3, 4		SP1-WB-034	2,3
59	10	1-VS-AC-1	MCR AC Unit	Ventilation	Service	27'	N		1, 2, 3, 4, 5		SP1-WB-040	1,2,3
60	10	1-VS-AC-7	Relay Room AC Unit	Ventilation	Service	9'	Y		1, 2, 3, 4, 5	Y	SP1-WB-039	1,2
61	11	1-CS-MR-1B	RWST Refrigeration Unit	Containment Spray	Yard	27'	N		3, 5		SP1-WB-035	2
62	11	1-VS-E-4B	Chiller	Ventilation	MER 3	9'	Y		1, 2, 3, 4, 5		SP1-WB-003	2,3
63	11	1-VS-E-4E	MCR/ESGR Chiller	Ventilation	MER 5	9'	Y		1,2,3,4,5		SP1-WB-010	2,3
64	12	1-EG-C-2	EDG Air Compressor	EDG	EDG 1 Room	27'	N		1, 2, 3, 4		SP1-WB-001	2,3
65	12	1-IA-C-1	Instrument Air Compressor	Instrument Air	Turbine	9'	N		4		SP2-WB-030	2,3
66	14	1-EP-DB-1-IA	EE/120V VITAL AC 1- IA BUS (RED)	Electrical Power	ESGR	9'	Y		1,2,3,4,5		SP1-WB-009	1,2,3

	Unit 1 Seismic Walkdown Equipment List (SWEL)											
item #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
67	12	1-EP-DB-1SVB1	EE/120V SEMI-VITAL AC BUS	Electrical Power	Control Room	27'	N		1,2,3,4,5		SP1-WB-012	1,2,3
68	14	1-EPD-DCS-1A-SUB	EE/125V VITAL DC SUB PNL 1A	Electrical Power	ESGR	9'	Y		1,2,3,4,5		SP1-WB-009	1,2,3
69	14	1-EPD-LP-1EC1	Emergency Lighting Panel	Electrical Power	MCR Computer Room	27'	N		1, 2, 3, 4, 5		SP1-WB-038	2
70	15	1-SW-B-1C	Emergency SW Pump Battery	Service Water	ESPH	18'	Y		4	Y	SP1-WB-021	2
71	15	1-EE-B-EG1	EDG Battery	EDG	EDG 1 Room	27'	Y		1, 2, 3, 4		SP1-WB-001	2,3
72	15	1-EPD-B-1A	125V Battery	Electrical Power	Battery Room	9'	Y		1, 2, 3, 4, 5		SP1-WB-047	2,3
73	16	1-MS-BC-1	MSTV App R SOV Battery Charger	Main Steam	MCR Computer Room	27'	N		4		SP1-WB-038	1,2,3
74	16	1-MS-BC-2	MSTV App R SOV Battery Charger	Main Steam	ESGR	9'	N		4		SP1-WB-009	1,2,3
75	17	1-EE-EG-1	Emergency Diesel Generator	EDG	EDG 1 Room	27'	Y		1, 2, 3, 4		SP1-WB-001	2,3
76	17	1-SW-PENG-1C	Emergency SW Pump Diesel	Service Water	ESPH	18'	Y		4		SP1-WB-021	2,3
77	18	1-CC-PS-103	CH Pump CC Pressure Switch	Component Cooling	Auxiliary	2'	Y		1, 2, 3		SP1-WB-020	2,3
78	18	1-CN-LT-100	ECST Level Transmitter	Auxiliary Feedwater	Yard	27'	N		4		SP1-WB-041	
79	18	1-CS-LT-100B	RWST Level	Containment Spray	Yard	27'	N		3, 5		SP1-WB-035	
80	18	1-RC-LT-1321	RVLIS B N-Range Level	Reactor Coolant	Auxiliary	13'	N		3		SP1-WB-042	2,3
81	18	1-FW-FT-100A	AFW Flow Transmitter	Auxiliary Feedwater	Containment	18'	N		4		SP1-WB-043	1,2
82	18	1-IA-PS-103B	PORV Backup Air Pressure Switch	Instrument Air	Containment	53'	N		2, 3		SP1-WB-044	1,2

,

	Unit 1 Seismic Walkdown Equipment List (SWEL)											
Item #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
83	18	1-IA-PS-104B	PORV Backup Air Bottle Pressure Switch	Instrument Air	Containment	53'	N	- - -	2, 3		SP1-WB-044	1,2
84	19	1-CC-RTD-109B	RHR Hx Outlet Temp	Component Cooling	Auxiliary	2'	N		4		SP1-WB-020	
85	19	1-CH-TIC-1107	BAST A Temp	CVCS	Auxiliary	13'	N		1		SP1-WB-042	2,3
86	19	1-CH-TIC-1164	BAST B Temp	CVCS	Auxiliary	13'	N		1		SP1-WB-042	2,3
87	19	1-CS-RTD-100A	RWST Temp	Containment Spray	Yard	27'	N		3, 5		SP1-WB-035	
88	16	1-EE-BC-EG1	EDG 1 Battery Charger	EDG	EDG 1 Room	27'	Y	Y	1,2,3,4,5		SP1-WB-001	1,2,3
89	20	1-SW-CAB-3C	Emergency SW Pump Relay Cabinet	Service Water	ESPH	18'	N		4		SP1-WB-021	1,2,3
90	20	1-CW-PNL-1A	Canal Level Relay Panel	Circulating Water	Cable Vault	9'	Y		4		SP1-WB-008	1,2,3
91	14	1-EP-CS-100	CONTROL ROOM CHILLER MAN TRAN SWITCH	Electrical Power	ESGR	9'	N		4		SP1-WB-009	1,2,3
92	20	1-EP-PNL-ASP	AUX SHUTDOWN PANEL	Electrical Power	ESGR	9'	N		1, 2, 3, 4		SP1-WB-009	2
93	21	1-CC-E-1A	CC Hx	Component Cooling	Turbine	9'	Y		4.		SP1-WB-045	2,3
94	21	1-CN-TK-1	ECST	Auxiliary Feedwater	Yard	27'	Y	L.	4		SP1-WB-041	2
95	21	1-CS-TK-2	Caustic Storage Tank	Containment Spray	Yard	27'	N		5		SP1-WB-035	2,3
96	21	1-SW-E-8	Emergency SW Pump Brg Oil Cooler	Service Water	ESPH	18'	N		4		SP1-WB-021	2
97	21	1-FW-E-9	FW-P-2 Oil Cooler	Auxiliary Feedwater	мѕ∨н	27'	Y		4		SP1-WB-006	2
98	21	1-EE-TK-3	Fuel Oil Day Tank	EDG	EDG 1 Room	27'	Y		1, 2, 3, 4		SP1-WB-001	2,3
99	21	1-EG-TK-2	EDG Air Comp Air Receiver	EDG	EDG 1 Room	27'	Y		1, 2, 3, 4		SP1-WB-001	2
100	21	1-SI-TK-1C	SI Accumulator	Safety Injection	Containment	-27	N		3,4		SP1-WB-032	1,2,3

	Unit 1 Seismic Walkdown Equipment List (SWEL)											
ltem #	Class	ID	Description	System	Location	Elev.	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
101	21	1-FC-E-1B	SFP Cooler	Spent Fuel Cooling	Fuel	6'	Y		N/A		SP2-WB-038	2,3,4
102	5	1-FC-P-1B	SFP Cooling Pump	Spent Fuel Cooling	Fuel	6'	Y		N/A		SP2-WB-038	2,3,4
103	0	1-FC-40	SFP Cooler B Inlet Isolation	Spent Fuel Cooling	Fuel	6'	N		N/A		SP2-WB-038	4
104	0	1-FC-35	SFP Cooling Pump 1B Suction Isolation	Spent Fuel Cooling	Fuel	20'	N		N/A		SP2-WB-038	4

Notes

1. Not sufficiently accessible to complete the walkdown inspection. To be inspected when accessible.

Has anchorage
Detailed anchorage inspection performed

4. SWEL 2 item

5 Safety Functions

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

÷

5. Unit 1 Summary Tables

	Unit 1	SWEL	Equipmen	t Class	Summary
--	--------	------	----------	---------	---------

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

B-24

Building	Elevation	Items
Auxiliary	2	11
Auxiliary	13	5
Auxiliary	27	1
Auxiliary	47	2
Battery Room	9	1
Cable Spreading Room	45	1
Cable Vauit		2
Cable Vault	15	1
Captainment		2
Containment		1
Containment	-3	1
Containment	47	1
Containment	53	2
Control Room	27	2
		2
		3
	21	
	27	10
ESGR	9	
	10	5
	16	1
Fuel Dil Fuilip House	6	2
Fuel Building	20	3
MCR Computer Room	20	1
		2
MERI	4/	2
MER 3	9	2
MER 4	9	
MER 5	9	5
MSVH	27	6
MSVH	40	1
	12	2
	9	8
Service	9	
Service	27	
Yard	27	6
TOTAL		104

UNIT 1 SWEL Location Summary

B-25

.

System	Items
Auxiliary Feedwater	9
Circulating Water	5
Component Cooling	6
Containment Spray	7
Containment Vacuum	1
CVCS	5
Dearated Drains	2
EDG	7
Electrical Power	15
Feedwater	2
Fire Protection	1
Heat Tracing	1
Instrument Air	4
Leakage Monitoring	2
Main Steam	6
Reactor Coolant	2
Reactor Protection	1
Recirculation Spray	1
Safety Injection	3
Service Water	9
Spent Fuel Cooling	4
Ventilation	11
TOTAL	104

Unit 1 SWEL System Summary

6. Unit 2 SWEL

				Unit 2 Seismic Wa	lkdown Equip	ment List ((SWEL)					
item #	Class	ID	Description	System	Location	Elevation	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
1	0	2-VS-MOD-201C	Charging Pump Cubicle Exhaust Damper	Ventilation	Auxiliary	2'	N		1, 2, 3		SP2-WB-001	
2	0	2-SW-REJ-201A	BC Hx Inlet Header	Service Water	Turbine	9'	Y		4		SP2-WB-002	
3	21	1-CH-TK-1C	CH/BORIC ACID STORAGE TANK C (BAST)	CVCS	Auxiliary	13'	Y		1		SP2-WB-011	2,3
4	3	2-EP-BKR-25H9	4kV Emergency Stub Bus Tie Breaker	Electrical Power	ESGR	9'	N		1,2,3,4,5		SP1-WB-009	2,3
5	1	2-EP-MCC-2H1-1A	2H Emergency MCC	Electrical Power	EDG 2 Room	27'	Y		1,2,3,4,5		SP2-WB-029	1,2,3
6	0	2-FW-T-2	Terry Turbine	Auxiliary Feedwater	MSVH	27'	Y		4		SP2-WB-004	2,3
7	2	2-EP-CS-200	CONTROL ROOM CHILLER 4B TRANSFER SWITCH	Electrical Power	ESGR	9'	N		1,2,3,4,5		SP1-WB-009	1,2,3
8	.0	2-MS-GOV-005	Terry Turbine Governor Valve	Main Steam	MSVH	27'	Y		4		SP2-WB-004	
9	1	2-EP-MCC-2H1-2N	Emergency MCC	Electrical Power	Cable Vault	15'	Y		1, 2, 3, 4, 5	Y	SP2-WB-006	1,2,3
10	1	2-EP-MCC-2K1	MCC for Chiller 4B	Electrical Power	ESGR	9'	Y		1, 2, 3, 4, 5		SP1-WB-009	1,2,3
11	2	2-RP-BKR-52-BYB	Rx Trip Breaker Bypass	Reactor Protection	Cable Spreading Room	45'	Y		1		SP2-WB-008	2
12	2	2-EP-LCC-2H	480V Emergency Bus	Electrical Power	ESGR	9'	Y		1,2,3,4,5		SP1-WB-009	2,3
13	2	2-EP-LCC-2H1	480V Emergency Bus	Electrical Power	ESGR	9'	Y		1, 2, 3, 4, 5		SP1-WB-009	2,3

.

Unit 2 Seismic Walkdown Equipment List (SWEL)												
ltem #	Class	ID	Description	System	Location	Elevation	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
14	4	2-EP-TRAN-2J	4160-480V Service Transformer	Electrical Power	ESGR	9'	Y		1,2,3,4,5	Y	SP1-WB-009	1,2,3
15	4	2-EP-XFRM-2SVB1-2	480-120V Semi-Vital Bus	Electrical Power	ESGR	9'	N		1, 2, 3, 4, 5		SP1-WB-009	1,2,3
16	5	2-CH-P-1A	Charging Pump	CVCS	Auxiliary	2'	N		1, 2, 3		SP2-WB-010	2,3
17	5	1-CH-P-2C	Boric Acid Transfer Pump	CVCS	Auxiliary	13'	N		1		SP2-WB-011	2
18	5	2-FW-P-2	Steam Driven Aux Feed Pump	Auxiliary Feedwater	MS∨H	27'	Y	Y	4		SP2-WB-004	2,3
19	5	2-FW-P-3A	Aux Feed Pump	Auxiliary Feedwater	MSVH	27'	Y		4		SP2-WB-004	2,3
20	5	2-CS-P-1A	CS Pump 1A	Containment Spray	CSPH	27'	Y		5		SP2-WB-041	2,3
21	5	2-FW-P-4A	Emergency Condensate Makeup Pump	Auxiliary Feedwater	CSPH	11'	Y		4		SP2-WB-013	2,3
22	5	1-CC-P-1C	CC Pump	Component Cooling	Auxiliary	2'	Y		4		SP1-WB-018	2,3
23	6	2-CC-P-2B	Charging Pump CC Pump	Component Cooling	Auxiliary	2'	Y		1, 2, 3		SP2-WB-019	2
24	6	2-SW-P-10A	Charging Pump SW Pump	Service Water	MER 4	9'	Y	Y	1, 2, 3		SP2-WB-014	2,3
25	6	2-RS-P-2A	Outside RS Pump	Recirculation Spray	Safeguards	12'	Y		4,5		SP2-WB-015	2
26	6	2-SI-P-1A	Safety Injection Pump	Safety Injection	Safeguards	12'	Y		3,4,5		SP2-WB-015	2
27	20	2-EP-PNL-ASP	AUX SHUTDOWN PANEL	Electrical Power	ESGR	9'	N		1, 2, 3, 4		SP1-WB-009	2
28	7	2-BD-TV-200A	S/G A Blowdown Containment Isolation	Steam Generator Blowdown	Containment	-3'	Ν		5		SP2-WB-023	1
29	7	2-FW-HCV-255A	FW/SG A FW BYPASS FLOW	Feedwater	MER 2	47'	Ν		4		SP2-WB-021	

Unit 2 Seismic Walkdown Equipment List (SWEL)												
Item #	Class	ID	Description	System	Location	Elevation	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
30	7	2-DA-TV-203A	DA/HRSS WASTE TK PUMP DISCH CIV	Dearated Drains	Auxiliary	2'	N		5		SP2-WB-019	
31	7	2-MS-PCV-202A	Terry Turbine PCV	Main Steam	MSVH	27'	N		4		SP2-WB-004	
32	7	2-LM-TV-200A	LM/CTMT LEAKAGE MONITORING HDR TRIP VALVE	Leakage Monitoring	Auxiliary	13'	N		5		SP2-WB-042	
33	7	2-FW-HCV-255C	FW/SG C FW BYPASS FLOW	Feedwater	MER 2	47'	N		4		SP2-WB-021	
34	7	2-MS-TV-220	Terry Turbine Steam Isolation	Main Steam	мѕ∨н	27'	N		4		SP2-WB-004	
35	7	2-LM-TV-200C	LM/CTMT LEAKAGE MONITORING HDR TRIP VALVE	Leakage Monitoring	Auxiliary	13'	N		5		SP2-WB-042	
36	7	2-CV-TV-250A	Containment Vacuum Pump 1B Suction	Containment Vacuum	Auxiliary	2'	N		5 [`]		SP2-WB-019	
37	7	2-MS-TV-201A	MS Trip Valve	Main Steam	MSVH	40'	N		4		SP2-WB-020	
38	7	2-CC-TV-209B	RHR Outlet Trip Valve	Component Cooling	Auxiliary	2'	N	Y	4,5		SP2-WB-019	
39	7	2-FW-FCV-2478	Main Feed Reg Valve	Feedwater	MER 2	47'	N	Y	4		SP2-WB-021	
40	7	2-IA-PCV-201	PORV Backup Air	Instrument Air	Containment	47'	N		2, 3		SP2-WB-022	1
41	7	2-RC-PCV-2455C	Pressurize PORV	Reactor Coolant	Containment	47'	Y		2, 3		SP2-WB-022	1
42	7	2-DA-TV-200A	Containment Sump Dsch Trip Valve	Dearated Drains	Containment	-3'	N	Y	5		SP2-WB-023	1
43	8	2-CH-MOV-2267A	CH Pump Inlet Isolation	CVCS	Auxiliary	2'	N		1, 2, 3		SP2-WB-010	
44	8	2-CS-MOV-201A	CS Pump Dsch	Containment Spray	CSPH	11'	N		3		SP2-WB-013	
-

	Unit 2 Seismic Walkdown Equipment List (SWEL)											
ltem #	Class	ID	Description	System	Location	Elevation	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
45	8	2-CS-MOV-202A	Chemical Addition Tank Isolation	Containment Spray	CSPH	11'	N	Y	3		SP2-WB-013	
46	8	2-CW-MOV-200A	Condenser Outlet	Circulating Water	Turbine	9'	N		4		SP2-WB-024	
47	8	2-CW-MOV-206A	Condenser Inlet	Circulating Water	Turbine	9'	Y		4		SP2-WB-024	
48	8	2-CW-MOV-206C	Condenser Inlet	Circulating Water	Turbine	9'	Y		4		SP2-WB-024	
49	16	2-EP-UPS-2A-1	EE/UPS 2A1	Electrical Power	ESGR	9'	N		1,2,3,4,5		SP1-WB-009	1,2
50	8	2-SW-MOV-201A	BC Hx Isolation	Service Water	Turbine	9'	Y		4		SP2-WB-002	
51	10	2-VS-AC-6	ESGR Air Handler	Ventilation	ESGR	9'	Y		1,2,3,4,5		SP1-WB-009	1,2
52	10	2-VS-AC-7	ESGR Air Handler	Ventilation	ESGR	9'	Y		1,2,3,4,5		SP1-WB-009	1,2
53	8	2-CH-MOV-2275A	CH/CHARGING PUMP RECIRC	CVCS	Auxiliary	2'	N		1, 2, 3		SP2-WB-010	
54	8	2-CH-MOV-2286A	CH/CHARGING PUMP OUTLET TO CHARGING LINE	CVCS	Auxiliary	2'	N		1, 2, 3		SP2-WB-010	
55	8	2-CH-MOV-2289A	CH/CHARGING STOP VALVE	CVCS	Auxiliary	2'	N		1, 2, 3		SP2-WB-019	
56	8	2-CH-MOV-2289B	CH/CHARGING STOP VALVE	CVCS	Auxiliary	2'	N		1, 2, 3		SP2-WB-019	
57	8	2-FW-MOV-251B	AFW Header	Auxiliary Feedwater	Containment	47'	Y		4		SP2-WB-025	1
58	8	2-FW-MOV-251E	AFW Header	Auxiliary Feedwater	Containment	47'	Y		4		SP2-WB-025	1
59	8	2-SI-MOV-2865A	Accumulator Outlet	Safety Injection	Containment	-27'	N		2		SP2-WB-026	1
60	8	1-FW-MOV-160A	AFW Cross-Connect	Auxiliary Feedwater	MSVH	27'	N		4		SP2-WB-004	
61	8	2-SW-MOV-205A	RS Hx Isolation	Service Water	CSPH	11'	N		4		SP2-WB-013	

.

-

	Unit 2 Seismic Walkdown Equipment List (SWEL)											
Item #	Class	ID	Description	System	Location	Elevation	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
62	11	2-CS-MR-1B	RWST Refrigeration Unit	Containment Spray	Yard	27'	N		3, 5		SP2-WB-028	2
63	12	2-EG-C-2	EDG Air Compressor	EDG	EDG 2 Room	27'	N		1, 2, 3, 4	-	SP2-WB-029	2,3
64	12	2-IA-C-1	Instrument Air Compressor	Instrument Air	Turbine	9'	N		4		SP2-WB-030	2,3
65	14	2-EP-DB-2-IA	EE/120V VITAL AC 2- IA BUS (RED)	Electrical Power	ESGR	9'	Y		1, 2, 3, 4, 5		SP1-WB-009	1,2,3
66	14	2-EP-DB-2SVB1	EE/120V SEMI-VITAL AC BUS	Electrical Power	Control Room	27'	N		1, 2, 3, 4, 5		SP2-WB-003	1,2,3
67	14	2-EPD-DCS-2A-SUB	EE/125V VITAL DC SUB PNL 2A	Electrical Power	ESGR	9'	N		1, 2, 3, 4, 5		SP1-WB-009	1,2,3
68	14	2-EP-LP-2S12	MCR Lighting Cabinet	Electrical Power	ESGR	9'	Z		1, 2, 3, 4, 5		SP1-WB-009	2
69	15	2-EPD-B-2A	125V Battery	Electrical Power	Battery Room	9'	Y		1, 2, 3, 4, 5		SP2-WB-007	2,3
70	15	2-EPD-B-2B	125V Battery	Electrical Power	Battery Room	9'	Y		1, 2, 3, 4, 5	-	SP2-WB-040	2,3
71	15	2-EE-B-EG2	EDG Battery	EDG	EDG 2 Room	27'	Y		1, 2, 3, 4		SP2-WB-029	2,3
72	16	2-EP-UPS-2B-2	EE/UPS 2B2	Electrical Power	ESGR	9'	Y		1,2,3,4,5		SP1-WB-009	1,2,3
73	16	2-MS-BC-2	MSTV App R SOV Battery Charger	Main Steam	ESGR	9'	Ν		4		SP1-WB-009	1,2,3
74	17	2-EE-EG-1	Emergency Diesel Generator	EDG	EDG 2 Room	27'	Y		1, 2, 3, 4		SP2-WB-029	2,3
75	18	2-CC-PS-203	CH Pump CC Pressure Switch	Component Cooling	Auxiliary	2'	Y		1, 2, 3		SP2-WB-019	
76	18	2-CN-LT-200	ECST Level Transmitter	Auxiliary Feedwater	Yard	27'	Y		4		SP2-WB-031	
77	18	2-CC-FT-210A	CC/RHR HX OUTLET FLOW	Component Cooling	Auxiliary	2'	N		1, 2, 3		SP2-WB-019	2,3

	Unit 2 Seismic Walkdown Equipment List (SWEL)											
ltem #	Class	ID	Description	System	Location	Elevation	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
78	18	2-CS-LT-200B	RWST Level	Containment Spray	Yard	27'	N		3		SP2-WB-028	
79	18	2-MS-PT-2484	MS Pressure Transmitter	Main Steam	CSPH	11'	Ν		2,4,5		SP2-WB-013	2,3
80	18	2-MS-FT-200	MS Flow Transmitter	Main Steam	CSPH	27'	N		4		SP2-WB-041	2
81	18	2-MS-PT-201A	MS Pressure Transmitter	Main Steam	CSPH	11'	N		4		SP2-WB-013	2
82	18	2-RC-LT-2321	RVLIS B N-Range Level	Reactor Coolant	Auxiliary	13'	Z		3		SP2-WB-011	2,3
83	18	2-SW-PS-7	CH Pump SW Pressure Switch	Service Water	MER 4	9'	Y		1, 2, 3		SP2-WB-014	
84	18	2-FW-FT-200A	AFW Flow Transmitter	Auxiliary Feedwater	Containment	18'	Ν		4		SP2-WB-036	1,2
85	18	2-IA-PS-203B	PORV Backup Air Pressure Switch	Instrument Air	Containment	47'	Ν		2, 3		SP2-WB-037	1,2
86	18	2-IA-PS-204B	PORV Backup Air Bottle Pressure Switch	Instrument Air	Containment	47'	Z		2, 3		SP2-WB-037	1,2
87	19	2-CC-RTD-209B	RHR Hx Outlet Temp	Component Cooling	Auxiliary	2'	N		4		SP2-WB-019	
88	19	1-CH-TIC-1103	BAST A Temp	CVCS	Auxiliary	13'	N		1		SP2-WB-011	2,3
89	19	1-CH-TIC-1166	BAST B Temp	CVCS	Auxiliary	13'	N		1		SP2-WB-011	2,3
90	19	2-CS-RTD-200A	RWST Temp	Containment Spray	Yard	27'	N		3, 5		SP2-WB-028	
91	16	2-EE-BC-EG2	EDG 2 Battery Charger	EDG	EDG 2 Room	27'	Y		1, 2, 3, 4		SP2-WB-029	1,2,3
92	20	2-CW-PNL-1A	Canal Level Relay Panel	Circulating Water	ESGR	9'	Y		4		SP1-WB-009	1,2,3
93	18	2-MS-PT-2475	MS Pressure Transmitter	Main Steam	CSPH	11'	N		2,4,5		SP2-WB-013	2,3
94	20	2-RP-CAB-CHIB	REACTOR PROTECTION TRAIN B	Reactor Protection	ESGR	9'	Ν		1,2,3,4,5		SP1-WB-009	2

	Unit 2 Seismic Walkdown Equipment List (SWEL)											
Item #	Class	ID	Description	System	Location	Elevation	Risk Significant (Y/N)	New or Replaced	Safety Functions	IPEEE Enhanced	Area Walkby	Notes
95	21	1-CC-E-1D	CC Heat Exchanger	Component Cooling	Turbine	9'	Y		4		SP1-WB-045	2,3
96	21	2-CN-TK-1	ECST	Auxiliary Feedwater	Yard	27'	Y		4		SP2-WB-031	2
97	21	2-CS-TK-2	Cuastic Storage Tank	Containment Spray	Yard	27'	Y		5		SP2-WB-028	2,3
98	21	2-FW-E-9	FW-P-2 Oil Cooler	Auxiliary Feedwater	MSVH	27'	Y		4		SP2-WB-004	2
99	21	2-EE-TK-3	EDG 2 FO Day Tank	EDG	EDG 2 Room	27'	Y		1, 2, 3, 4		SP2-WB-029	2
100	21	2-SI-TK-1C	SI Accumulator	Safety Injection	Containment	-27'	N		3,4		SP2-WB-026	1,2,3

Notes

1. Not sufficiently accessible to complete the walkdown inspection. To be inspected when accessible.

Has anchorage
 Detailed anchorage inspection to be performed

5 Safety Functions

1. Reactor reactivity control 2. Reactor coolant pressure control

Reactor coolant inventory control
 Decay heat removal
 Containment function

7. Unit 2 Summary Tables

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

Building	Elevation	Items
Auxiliary	2	15
Auxiliary	13	7
Battery Room	9	2
Cable Spreading Room	45	1
Cable Vault	15	1
Containment	-27	2
Containment	-3	2
Containment	18	1
Containment	47	6
Control Room	27	1
СЅРН	11	7
CSPH	27	2
EDG Room	27	6
ESGR	9	18
MER 2	47	3
MER 4	9	2
MSVH	27	8
MSVH	40	1
Safeguards	12	2
Turbine	9	7
Yard	27	6
TOTAL		100

UNIT 2 SWEL Location Summary

•

System	Items
Auxiliary Feedwater	11
Circulating Water	4
Component Cooling	7
Containment Spray	7
Containment Vacuum	1
CVCS	10
Dearated Drains	2
EDG	5
Electrical Power	18
Feedwater	3
Instrument Air	4
Leakage Monitoring	2
Main Steam	9
Reactor Coolant	2
Reactor Protection	2
Recirculation Spray	1
Safety Injection	3
Service Water	5
Steam Generator Blowdown	1
Ventilation	3
TOTAL	100

Unit 2 SWEL System Summary

8. Unit 1 Area Walk-by List

.

Unit 1 Area Walk-by List

Area Number	Area Description	Notes
1	EDG 1 Room	
2	U1 CH Pump Cubicle C	
3	MER 3	
4	U1 TB 9' - CC SW Valve Pit	
5	Not Used	
6	U1 AFW Pump Area	
7	Not Used	
8	U1 Cable Vault	
9	U1/U2 ESGR (incl Relay Rooms)	
10	MER 5	
11	U1 Cable Spreading Room - RTB Cubicle	
12	U1 MCR	
13	U1 AB 27'	
14	U1 CH Pump Cubicle A	
15	U1 FOPH	
16	Not Used	
17	U1 CSPH 11'	
18	AB 2' (CC Pump Area)	
19	Fire Pump House	
20	U1 AB 2'	
21	ESPH	
22	U1 RS/SI Pump Area	
23	Not Used	
24	U1 MSVH 40'	
25	Not Used	
26	MER 1	
27	U1 Cont 47' (PRZ Cubicle)	1
28	U1 Cont -3'	1
29	Not Used	
30	U1 TB 9' - Condenser Area	
31	U1 TB 9' - BC SW Valve Pit	
32	U1 Cont -27'	1
33	U1 Cont 47' (at Personnel Hatch Area)	1
34	U1 AB 47'	
35	U1 RWST Area	

Area Number	Area Description	Notes			
36	Not Used				
37	Not Used				
38	U1 MCR Computer Room				
39	U1 ESGR - near 1-VS-AC-7				
40	U1 MCR AC Room				
41	U1 ECST Area				
42	U1 AB 13'				
43	U1 Cont 18'	1			
44	U1 Cont 47' (PORV Area)	1			
45	CC HX Area				
46	Not Used				
47	U1 Battery Room A				
48	U1 CSPH 27'				

Unit 1 Area Walk-by List

Note

.

1. 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 Number	Area Description	Notes
1	U2 CH Pump Cubicle C	
2	U2 TB 9' - BC SW Vaive Pit	
3	U2 MCR	1 ·
4	U2 AFW Pump Area	
5	Not Used	
6	U2 Cable Vault	
7	U2 Battery Room A	
8	U2 Cable Spreading Room - RTB Cubicle	
9	Not Used	
10	U2 CH Pump Cubicle A	
11	U2 AB 13' - BAST Area	
12	Not Used	
13	U2 CSPH 11'	
14	MER 4	
15	U2 RS/SI Pump Area	
16	Not Used	
17	Not Used	
18	Not Used	
19	U2 AB 2'	
20	U2 MSVH 40'	
21	MER 2	
22	U2 Cont 47' (PRZ Cubicle)	1
23	U2 Cont -3'	1
24	U2 TB 9' - Condenser Area	
25	U2 Cont 47' (at Personnel Hatch Area)	1
26	U2 Cont -27'	1
27	Not Used	
28	U2 RWST Area	
29	EDG 2 Room	
30	U2 TB 9' - IA Compressor Area	
31	U2 ECST Area	
32	Not Used	
33	Not Used	
34	Not Used	
35	Not Used	

Area Number	Area Description	Notes
36	U2 Cont 18'	1
37	U2 Cont 47' (PORV Area)	1
38	SFP Cooler Area	
39	Not Used	
40	U2 Battery Room B	
41	U2 CSPH 27'	
42	U2 AB 13'	

Unit 2 Area Walk-by List

Note

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

Appendix C

Unit 1 Seismic Walkdown Checklists

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-002

AWC # <u>SP1-WB-002</u>

Status Y⊠ N□ U□

Equipment ID No. <u>1-VS-MOD-101C</u> Equip. Class 0

Equipment Description CHARGING PUMP CUBICLE EXHAUST DAMPER

Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>CP CUB</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N⊡ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent 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?	YX ND UD

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-002

,

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YX NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	
and masonry block walls not likely to collapse onto the 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?	
	-
Other Adverse Conditions	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX ND UD
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX ND UD
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary)	Y⊠ N□ U□
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) None	Y⊠ N⊡ U⊡
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) None	Y⊠ N□ U□
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) None	Y⊠ N⊡ U⊡
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) None	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) None Evaluated by: William Gallagher, Sr. WMAMAD	Y⊠ N□ U□ Date: <u>8/23/2012</u>
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary) None Evaluated by: William Gallagher, Sr. Work of the Evaluated by: Ellery Baker	Y⊠ N□ U□ _ Date: <u>8/23/2012</u> _ Date: <u>8/23/2012</u>

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-003

AWC # <u>SP1-WB-003</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-VS-S-1B</u>	Equip. Class_0	
Equipment Description SELF CLEANING	<u>S STRAINER</u>	
Location: Bldg. <u>SERVICE</u> Floor El. <u>9</u>	<u>'</u> Room, Area <u>MER 3</u>	
Manufacturer, Model, Etc. (optional but re	commended) KINNEY, SP, ENGINE	ERS INC
Instructions for Completing Checklist		W
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the space is provi	he results of the Seismic Walkdown of wing questions may be used to record t he end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requiring	fication required (i.e., is the item one ng such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion to oxidation?	that is more than mild surface	
Minor corrosion on anchor bolts a	and pedestal \rightarrow not a seismic concern	
4. Is the anchorage free of visible cra	icks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration con (Note: This question only applies i which an anchorage configuration	isistent with plant documentation? if the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
6. Based on the above anchorage eva potentially adverse seismic condit NW anchor bolt less than full engo seismic concern	aluations, is the anchorage free of ions? agement (~1 thread short) \rightarrow not a	YM NO UO

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-003

nteraction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
 Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Overhead fluorescent lights → previously evaluated by USI-A- 46/IPEEE, therefore, no seismic concerns. 	Y⊠ N⊡ U⊡ N/A⊡
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	
Comments (Additional pages may be added as necessary)	

Spalling on three corners (NW, SW, SE) \rightarrow strainer is anchored by (4) 5/8" 0 bolts that are doweled into the floor slab, therefore, no seismic concerns but should be fixed. CR 486517 submitted.

Evaluated by: <u>David Germano</u>	Daviel Hermane	Date: <u>8/29/2012</u>
Freehrsted have Laws Culling	Allow h.	D-4 8/20/2012
Evaluated by: <u>Larry Cultivan</u>		Date: <u>8/29/2012</u>

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-004

AWC # SP1-WB-031		Status Y⊠ N□ U□
Equipment ID No. 1-SW-REJ-101A	Equip. Class 0	
Equipment Description MOV-101A OUTLE	5 <i>T</i>	
Location: Bldg. TURBINE Floor El. 9'	Room Area TURBINE	
Manufacturer Model Etc. (optional but rec	ommended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ing questions may be used to record t e end of this checklist for documenting	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verifi of the 50% of SWEL items requiring	ication required (i.e., is the item one g such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broker	1, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion th oxidation?	at is more than mild surface	
all thread and nuts.	illy noted on all tension connection	
4. Is the anchorage free of visible crack	ks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration const (Note: This question only applies if which an anchorage configuration v	istent with plant documentation? the item is one of the 50% for erification is required.)	Y N U N/A
6. Based on the above anchorage evalupotentially adverse seismic condition	uations, is the anchorage free of ns?	YM ND UD

Seismic Walkdown Checklist (SWC)	· · · · ·
SWC # <u>SP1-WD-SWEL-004</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?	YX NI UI
<u>Comments</u> (Additional pages may be added as necessary) Reference Drawing 11448-FC-2C	
Evaluated by: Tim Wattleworth Tomothy Shall	_ Date: <u>8/21/12</u>
Evaluated by: Matthew Winter Matthew D.	_ Date: <u>8/21/12</u>

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-005

AWC # <u>SP1-WB-004</u>	<	Status YX N U
Equipment ID No. <u>1-SW-REJ-102A</u>	Equip. Class_0	·
Equipment Description CC HX INLET HI	EADER	
Location: Bldg. <u>TURBINE</u> Floor El. 9	<u>'</u> Room, Area <u>TURBINE</u>	
Manufacturer, Model, Etc. (optional but re	commended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the space is provided at the space is provided at the space space is provided at the space space space.	he results of the Seismic Walkdown of wing questions may be used to record t he end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requiring	fication required (i.e., is the item one ng such verification)?	Y NX
2. Is the anchorage free of bent, brok	en, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion oxidation?	that is more than mild surface	
Note: all thread stud tension memo	bers do have minor corrosion.	
4. Is the anchorage free of visible cra	cks in the concrete near the anchors?	
5. Is the anchorage configuration cor (Note: This question only applies which an anchorage configuration	sistent with plant documentation? if the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
6. Based on the above anchorage eva potentially adverse seismic condit	luations, is the anchorage free of ions?	YM NO UO

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-005</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?	YM NO UO
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary) Drawing 11448-FC-2R	
Evaluated by: <u>Tim Wattleworth</u> Meth Dr For T.W. per telecon	Date: <u>8/24/12</u>
Evaluated by: <u>Matthew Winter</u>	_ Date: <u>8/24/12</u>

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Report Appendix C Page C-10

Page 1 of 2

Status YX N U

SWC # <u>SP1-WD-SWEL-006</u>

|--|

Equipment ID No. <u>1-VS-AC-219</u> Equip. Class <u>10</u>

Equipment Description MER5 AIR HANDLER

Location: Bldg. <u>TURB</u> Floor El. <u>9'</u> Room, Area <u>MER5</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2.	Is the anchorage free of bent, broken, missing or loose hardware? Anchored by tube steel, welded to embedded plates	Y⊠ N□ U□ N/A□
3.	Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4.	Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5.	Is the anchorage configuration consistent 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 # <u>SP1-WD-SWEL-006</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?	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
·	·
<u>Comments</u> (Additional pages may be added as necessary)	
	١
Evaluated by: Larry Cullivan Houllion	_ Date: <u>8/23/12</u>
Evaluated by: Kevin McGuire	_ Date: <u>8/23/12</u>

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-007

AWC # <u>SP1-WB-006</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-FW-T-2</u>	Equip. Class_0
Equipment Description <u>TERRY TURBINE</u>	
Location: Bldg. <u>MSVH</u> Floor El. <u>27</u>	Room, Area AFW Pump Area
Manufacturer, Model, Etc. (optional but rec	commended)
Instructions for Completing Checklist	
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of an item of equipment on the ving questions may be used to record the results of judgments and e end of this checklist for documenting other comments.
Anchorage	
1. Is the anchorage configuration verif of the 50% of SWEL items requiring	ication required (i.e., is the item one $Y \boxtimes N \square$ g such verification)?
2. Is the anchorage free of bent, broken	n, missing or loose hardware? Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion th oxidation?	hat is more than mild surface Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crac	ks in the concrete near the anchors? $Y \boxtimes N \square U \square N/A \square$
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v <i>Consistent with VTM Drawing V-46</i>	sistent with plant documentation? YX NU UNANA The item is one of the 50% for verification is required.) 6HMTA86X4-A.

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

Page	2	of	2
------	---	----	---

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-007

Intera	ction	Effects
and a second sec		

7.	Are soft targets fre	e from impact l	oy nearby	equipment o	or structures?	Y⊠ N⊓	
			·	- 1			

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX N UN/A and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage? YX NO UO N/AO
- 10. Based on the above seismic interaction evaluations, is equipment free YX ND UD of potentially adverse seismic interaction effects?

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could YX NO UO adversely affect the safety functions of the equipment?

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: Ellery Baker	Date: 8/23/12
Evaluated by: William Gallaghar Sr	Date: 8/23/12
Evaluated by. william Gallagher, Sr. / / / / / /	Date: 0/23/12

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-008

AWC # <u>SP1-WB-010</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-VS-AC-222</u> Equip. Class_10	
Equipment Description MER 5 AIR HANDLER	
Location: Bldg. <u>TURB</u> Floor El. <u>9'</u> Room, Area <u>MER5</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record t findings. Additional space is provided at the end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware? Anchored by tube steel, welded to embedded plates	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent 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?	YM NO UO

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Rep	ort Appendix C	Page C-1 Page 3
Seismic Walkdown Checklist (SWC)		
SWC # <u>SP1-WD-SWEL-008</u>		
Interaction Effects		
7. Are soft targets free from impact by nearby equipment or structures?	YX ND U] N/A[
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?] N/A
9. Do attached lines have adequate flexibility to avoid damage?] N/A
10. Deced on the choice extension interaction exclustions is environment free		_
of potentially adverse seismic interaction effects?		
Other Adverse Conditions		
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N⊟ U[
<u>Comments</u> (Additional pages may be added as necessary)		
Evaluated by: Larry Cullivan Honling A.	_ Date: <u>8/23/1</u>	12
Evaluated by: Kevin McGuire K-Min-	Date: <u>8/23/1</u>	12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-009</u>

AWC # SP1_WB_006		Status VM NO UD
Equipment ID No. 1 MS GOV 005	Equip Class 0	
		AN OF A CONTRACT OF
Equipment Description <u>TERRY TURBINE (</u>	<u>JOVERNOR VALVE</u>	
Location: Bldg. <u>MSVH</u> Floor El. <u>27</u> '	Room, Area <u>AFW Pump A</u>	<u>rea</u>
Manufacturer, Model, Etc. (optional but reco	ommended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the following findings. Additional space is provided at the	results of the Seismic Walkdown of ng questions may be used to record t end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verifi of the 50% of SWEL items requiring	cation required (i.e., is the item one such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broken	, missing or loose hardware?	
3. Is the anchorage free of corrosion the oxidation?	at is more than mild surface	
4. Is the anchorage free of visible crack	as in the concrete near the anchors?	
5. Is the anchorage configuration consi (Note: This question only applies if which an anchorage configuration v	stent with plant documentation? the item is one of the 50% for erification is required.)	
6. Based on the above anchorage evaluption potentially adverse seismic condition	nations, is the anchorage free of ns?	YX NI UI

Page 2 of 2

Y⊠ N□ U□ N/A□

SWC # SP1-WD-SWEL-009

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?	YX NI UI N/AI
---	---------------

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

Other Adverse Conditions

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

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: Ellan Bakar Files Bast 1	Date: 8/21/12
Evaluated by. Ellery baker	Date. 0/21/12
Evaluated by: William Gallagher, Sr. MMUUU MCAL	_ Date: <u>8/21/12</u>

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-013</u>

S

AWC # <u>SP1-WB-011</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-RP-BKR-52-BYB</u> Equip. Class 2	
Equipment Description <u>RX TRIP BREAKER BYPASS</u>	
Location: Bldg. <u>SERVICE</u> Floor El. <u>45</u> ' Room, Area <u>CABLE SPRI</u> <u>CUBICLE O</u>	EADING ROOM (RTB nly)
Manufacturer, Model, Etc. (optional but recommended) <u>WESTINGHOUSE</u>	
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record t findings. Additional space is provided at the end of this checklist for documenting the space of the space	an item of equipment on the the results of judgments and ag other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y NX
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent 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?	YM NO UO

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-013</u>

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YX NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Fluorescent lighting above cabinet to the east and west. Fluorescent lighting was addressed during USI A-U6/IPEEE and determined not to be a seismic 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?	YM NO UO
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO
<u>Comments</u> (Additional pages may be added as necessary)	
·	
Evaluated by: <u>Daniel J. Vasquez</u>	Date: <u>8/22/2012</u>
Evaluated by: David Germano David Germano-	_ Date: <u>8/22/2012</u>

Page C-20 Page 1 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-014</u>	
AWC # <u>SP1-WB-009</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-EP-LCC-1H</u> Equip. Class 2	·
Equipment Description 480V EMERGENCY BUS	
Location: Bldg. <u>SERVICE</u> Floor El. <u>9'-6''</u> Room, Area <u>ESGR</u>	1.55511.55511.55511.55511.55511.55511.55511.55511.55511.55511.55511.55511.55511.55511.55511.55511.55511.55511.5
Manufacturer, Model, Etc. (optional but recommended) ITE	
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting the space of the spac	an item of equipment on the the results of judgments and ag other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Consistent with USI A-46 SEWS</i>	Y⊠ N⊡ U⊡ N/A⊡
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX ND UD

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-014</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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

CR 485666: 1-EP-LCC-1H \rightarrow 1-EP-BRR-15H7, 1 penetration not fully sealed CR 485670: cabinet block out blank cover for 1-EP-CUB-14H-6 missing 2 bolts

··	0.00		
Evaluated by: <u>Tim Wattleworth</u>	Semoly Hunt	Date: <u>8/22/12</u>	
	\sim		
Evaluated by: Matthew Winter	Matto Un	Date: <u>8/22/12</u>	

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-015</u>	
AWC # <u>SP1-WB-009</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-EP-LCC-1H1</u> Equip. Class <u>2</u>	
Equipment Description <u>480V EMERGENCY BUS</u>	
Location: Bldg. <u>SERVICE</u> Floor El. <u>9'-6''</u> Room, Area <u>ESGR</u>	
Manufacturer, Model, Etc. (optional but recommended) ITE	
Instructions for Completing Checklist This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following guestions may be used to record	f an item of equipment on the
findings. Additional space is provided at the end of this checklist for documentin	ng other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YX N
2. Is the anchorage free of bent, broken, missing or loose hardware?	YX NI UI N/AI
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Consistent with USI A-46 SEWS</i>	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX NO UO

Page C-22

Seismic Walkdown Checklist (SWC)

SWC # SP1-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?	YM NO UO
Comments (Additional pages may be added as necessary)	
Cabinets are bolted together.	
Evaluated by: Tim Wattleworth Junoty Aunt	Date: <u>8/22/12</u>
Evaluated by: Matthew Winter Math W	Date: <u>8/22/12</u>

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-016</u>

AWC # <u>SP1-WB-009</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-EP-BKR-15J9</u> Equip. Class_3	
Equipment Description STUB BUS TIE BREAKER	
Location: Bldg. <u>SERVICE</u> Floor El. <u>9'</u> Room, A	rea <u>ESGR</u>
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist This checklist shall be used to document the results of the Seis SWEL. The space below each of the following questions may findings. Additional space is provided at the end of this checkl	mic Walkdown of an item of equipment on the be used to record the results of judgments and ist for documenting other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e of the 50% of SWEL items requiring such verification)	e., is the item one Y NX ?
2. Is the anchorage free of bent, broken, missing or loose -Plug welds used. Four plug welds for 15J9 cabinet. For for 15J10 and 15J11 cabinet were also inspected.	hardware? YX NI UI N/AI our plug welds
3. Is the anchorage free of corrosion that is more than mil oxidation?	d surface Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete r	near the anchors? $Y \square N \square U \square N/A \boxtimes$
5. Is the anchorage configuration consistent with plant do (Note: This question only applies if the item is one of which an anchorage configuration verification is required.	ocumentation? Y□ N□ U□ N/A⊠ the 50% for red.)
6. Based on the above anchorage evaluations, is the anch potentially adverse seismic conditions?	orage free of Y⊠ N□ U□

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-016</u>

;

Interaction Effects

7. Are soft 1) 2)	t targets free from impact by nearby equipment or structures? 3" clear of 1J1 load center to the west, acceptable. Junction box on east side of panel close to wall mounted cable tray on east wall (½" clearance), judged acceptable since cable tray will have minimal displacement and will not interact.	YX NO UO N/AO
 8. Are over and mark <i>1</i>) 2) 	erhead equipment, distribution systems, ceiling tiles and lighting, sonry block walls not likely to collapse onto the equipment? Fluorescent lights on north and south side. Fluorescent lights were evaluated during USI A-46/ IPEEE and concluded not to be a seismic concern. Threaded rod overhead on South side appears bent to clear	Y⊠ N□ U□ N/A□
2)	interferences. Conduits supported adequately despite this condition.	
3)	Cable duct between 1J1 stub bus tie breaker and normal feed 1J is supported with threaded rods and approximately mid span. Welded angle lug on west side of duct not used.	
- 4)	Adjacent stub bus cabinets were bolted together.	
9. Do atta	ched lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based of pote	on the above seismic interaction evaluations, is equipment free ntially adverse seismic interaction effects?	Y⊠ N⊟ U⊟
Other Advers	se Conditions	
11. Have y adverse	ou looked for and found no other seismic conditions that could ely affect the safety functions of the equipment?	YM NO UO
<u>Comments</u> (A	dditional pages may be added as necessary)	
Evaluated by:	Daniel J. Vasquez	Date: <u>8/28/12</u>
Evaluated by:	David Germano David Germano	_ Date: <u>8/28/12</u>
Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-020</u>	
AWC # <u>SP1-WB-014</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-CH-P-1A</u> Equip. Class_5	
Equipment Description <u>CHARGING PUMP</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>J/9</u>	
Manufacturer, Model, Etc. (optional but recommended) <u>WESTINGHOUSE</u>	· · · · · · · · · · · · · · · · · · ·
Instructions for Completing Checklist This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record to findings. Additional space is provided at the end of this checklist for documentin	an item of equipment on the the results of judgments and g other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YX N
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Consistent with USI A-46 SEWS</i>	Y⊠ N⊟ U⊟ N/A⊟
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX NO UO

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-020</u>

7.	Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9.	Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
9 ther 11.	Adverse Conditions Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N⊡ U⊡
Comr	nents (Additional pages may be added as necessary)	<u></u>

	1,	
Evaluated by: <u>Ellery Baker</u>	Ethy M. O	Date: 8/23/12
	11/	
Evaluated by: William Gallagher, Sr.	Malino	Date: 8/23/12

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Report Appendix C Page C-28

Page 1 of 2

Seismic Walkdown Checklist (SWC)

AWC # SP1-WB-015	Status Y⊠ N□ U□
Equipment ID No. 1-EE-P-1C	Equip. Class_5
Equipment Description EDG 3 FO TRANS	TFER PUMP
Location: Bldg. FOPH Floor El. 16	S' Room. Area
Manufacturer Model Etc. (ontional but rec	commended) SIER – BATH PUMPS/DRESSER PUMP
Instructions for Completing Checklist	
This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	e results of the Seismic Walkdown of an item of equipment on the ving questions may be used to record the results of judgments and e end of this checklist for documenting other comments.
Anchorage	
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	ication required (i.e., is the item one $Y \boxtimes N \square$ g such verification)?
2. Is the anchorage free of bent, broke	n, missing or loose hardware? Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion the oxidation?	hat is more than mild surface Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crac	the concrete near the anchors? $Y \boxtimes N \square U \square N/A \square$
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration of Drawing 11448-FC-29J	sistent with plant documentation? Y N U V N/A f the item is one of the 50% for verification is required.)
 Based on the above anchorage eval potentially adverse seismic condition 	nuations, is the anchorage free of $Y \boxtimes N \square U \square$ ons?

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-021</u>

Interaction Effects

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

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

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan	Alallion D.	_ Date:	<u>8/22/12</u>
Evaluated by: <u>Kevin McGuire</u>	K-M.J.	_ Date:	8/22/12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-022</u>

i.

AWC # <u>SP1-WB-048</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-CS-P-1A</u>	Equip. Class_5	
Equipment Description CONTAINMENTS	PRAY PUMP	
Location: Bldg. <u>CSPH</u> Floor El. <u>27</u>	' Room, Area <u>CSPH</u>	
Manufacturer, Model, Etc. (optional but rec	ommended)	
Instructions for Completing Checklist This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ing questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requiring	ication required (i.e., is the item one g such verification)?	YM ND
2. Is the anchorage free of bent, broken	n, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion the oxidation?	at is more than mild surface	YX NI UI N/AI
4. Is the anchorage free of visible crac	ks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v Drawing 11448-FC-19C Consistent with USI A-46 SEWS	istent with plant documentation? the item is one of the 50% for erification is required.)	Y⊠ N□ U□ N/A□
 Based on the above anchorage evalue potentially adverse seismic condition 	uations, is the anchorage free of ons?	

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-022</u>

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?	YX NO UO N/AO
---	---------------

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX NI UNAI and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan A.	Date:	8/22/12
Evaluated by: Kevin McGuire KMM	Date:	8/22/12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-023</u>

AWC # <u>SP1-WB-006</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-FW-P-2</u>	Equip. Class_5	
Equipment Description STEAM DRIVEN A	<u>UX FEED PUMP</u>	
Location: Bldg. <u>MSVH</u> Floor El. <u>27</u>	-6" Room, Area <u>AFW1</u>	Pump Area
Manufacturer, Model, Etc. (optional but rec	ommended) <u>INGERSOLL –</u>	RAND, 4HMTA-6
Instructions for Completing Checklist This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	results of the Seismic Walkdoing questions may be used to r end of this checklist for docu	own of an item of equipment on the ecord the results of judgments and menting other comments.
Anchorage 1. Is the anchorage configuration verifing of the 50% of SWEL items requiring	cation required (i.e., is the iter such verification)?	n one Y⊠ N□
2. Is the anchorage free of bent, broken	n, missing or loose hardware?	YX NO UO N/AO
3. Is the anchorage free of corrosion th oxidation?	at is more than mild surface	Y⊠ N⊡ U⊡ N/A⊡
4. Is the anchorage free of visible crac	ks in the concrete near the and	hors? Y⊠ N□ U□ N/A□
 Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v 	istent with plant documentatio the item is one of the 50% for erification is required.)	n? Y⊠ N⊡ U⊡ N/A⊡

Reference: VTM Drawing V-46HMTA86X4-A

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

SWC # <u>SP1-WD-SWEL-023</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?	YM NO UO
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO
	<u></u>
<u>Comments</u> (Additional pages may be added as necessary)	

Evaluated by: Ellery Baker Elly Bor	Date: 8/21/12
Evaluated by: William Gallagher, Sr. UM Gall	Date: 8/21/12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-024</u>

AWC # <u>SP1-WB-017</u> Status Y⊠ N□ U□
Equipment ID No. <u>1-FW-P-4A</u> Equip. Class <u>5</u>
Equipment Description <u>EMERGENCY COND MAKEUP PUMP</u>
Location: Bldg. <u>CSPH</u> Floor El. <u>11'</u> Room, Area
Manufacturer, Model, Etc. (optional but recommended) GOULDS PUMPS INC. 3196XLT, 6XB-13
Instructions for Completing Checklist
This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
1. Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?

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

SWC # <u>SP1-WD-SWEL-024</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?	

10. Based on the above seismic interaction evaluations, is equipment free YX ND UD of potentially adverse seismic interaction effects?

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could YX NO UO adversely affect the safety functions of the equipment?

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan	Alullin J.	_ Date:	8/22/12
Evaluated by: <u>Kevin McGuire</u>	KM:J-	_ Date:	8/22/12

Seismic Walkdown Checklist (SWC)

AWC # <u>SP1-WB-018</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-CC-P-1A</u>	Equip. Class 5	
Equipment Description <u>CC PUMP</u>	·	
Location: Bldg. <u>AUX</u> Floor El. <u>2'</u>	Room, Area <u>G/9</u>	
Manufacturer, Model, Etc. (optional but re-	commended) <u>DE LAVAL TURBINE</u>	INC.
Instructions for Completing Checklist This checklist shall be used to document th SWEL. The space below each of the follow	te results of the Seismic Walkdown of ving questions may be used to record the second to record the second to record the second to record the second se	an item of equipment on the ne results of judgments and
findings. Additional space is provided at th	he end of this checklist for documenting	g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	fication required (i.e., is the item one ng such verification)?	Y⊠ N□
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion the oxidation?	hat is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crac	cks in the concrete near the anchors?	YX NO UO N/AO
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration <i>Consistent with USI A-46 SEWS</i>	sistent with plant documentation? f the item is one of the 50% for verification is required.)	Y⊠ N□ U□ N/A□
 Based on the above anchorage eval potentially adverse seismic condition 	luations, is the anchorage free of ons?	YX NI UI

SWC # <u>SP1-WD-SWEL-025</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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

East end of pump: Bearing temperature indicator conduit is missing Unistrut clamp. Not a seismic concern, but should be corrected. Submitted CR 485686.

	· · · · · · · · · · · · · · · · · · ·	_
Evaluated by: <i>Ellery Baker</i>	Fller Bale Date: 8/22/12	
Evaluated by: William Gallagher, Sr	Allian Mr All Date: 8/22/12	

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-026</u>

AWC # <u>SP1-WB-019</u>	Status Y⊠ N□ U□
Equipment ID No. 1-FP-P-2	Equip. Class 5
Equipment Description DIESEL FIRE PU	IMP
Location: Bldg. FPH Floor El. 27	7' Room, Area FIRE PUMP HOUSE
Manufacturer Model Etc. (ontional but re	commended) CUMMINGS ENGINE CO
Instructions for Completing Checklist	
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	he results of the Seismic Walkdown of an item of equipment on the wing questions may be used to record the results of judgments and he end of this checklist for documenting other comments.
Anchorage	
1. Is the anchorage configuration veri of the 50% of SWEL items requirir	fication required (i.e., is the item one $Y \boxtimes N \square$ ng such verification)?
2. Is the anchorage free of bent, broke	en, missing or loose hardware? Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion t oxidation?	that is more than mild surface $Y \boxtimes N \square U \square N/A \square$
4. Is the anchorage free of visible cra	.cks in the concrete near the anchors? $Y \boxtimes N \square U \square N/A \square$
5. Is the anchorage configuration con (Note: This question only applies i which an anchorage configuration Drawing 11448-FC-36A	isistent with plant documentation? Y N U V N/A If the item is one of the 50% for verification is required.)
 Based on the above anchorage eva potentially adverse seismic conditi 	iluations, is the anchorage free of $Y \boxtimes N \square U \square$ ions?

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-026</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?	YM NO UO
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Larry Cullivan Hlon Win J.	_ Date: <u>8/22/12</u>
Evaluated by: Kevin McGuire K-M:	Date: <u>8/22/12</u>

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-027</u>

AWC # SP1-WB-020	Status YX NT UT
Equipment ID No. 1-CC-P-2A	Equin Class 6
Equipment Description CHAPCING DIM	
Equipment Description <u>CHARGING PUM</u>	<u>P CC PUMP</u>
Location: Bldg. <u>AUX</u> Floor El. <u>2'</u>	Room, Area <u>J/8.1</u>
Manufacturer, Model, Etc. (optional but rec	commended) <u>GOULDS PUMP INC. 3446ST</u>
Instructions for Completing Checklist This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	e results of the Seismic Walkdown of an item of equipment on the ving questions may be used to record the results of judgments and ue end of this checklist for documenting other comments.
Anchorage	
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	fication required (i.e., is the item one $Y \boxtimes N \square$ og such verification)?
2. Is the anchorage free of bent, broke	n, missing or loose hardware? YX NI UI N/AI
3. Is the anchorage free of corrosion th oxidation?	hat is more than mild surface Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crac	the concrete near the anchors? $Y \boxtimes N \square U \square N/A \square$
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration of <i>Consistent with USI A-46 SEWS</i>	sistent with plant documentation? Y N U V N/A f the item is one of the 50% for verification is required.)
6. Based on the above anchorage eval potentially adverse seismic condition	luations, is the anchorage free of $Y \boxtimes N \square U \square$ ons?

Page 2 of 2

YX NO UO N/AO

Seismic Walkdown Checklist (SWC)

SWC # SP1-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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage?

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

	di D /	· 1	to the distribute of second second second
Evaluated by: <u>Ellery Baker</u>	Floy Data		Date: <u>8/22/12</u>
Evaluated by: <u>William Gallaghe</u>	r. sr. Allan	Julh/	Date: <u>8/22/12</u>
•	νų	0	

Seismic Walkdown Checklist (SWC)

AWC # SP2_WR_014		Status VM NII IIII
Equipment ID No. $1-SW-P-10A$	Equip. Class 6	
Equipment Description <u>CHARGING PUM</u>	P SW PUMP	
Location: Bldg. <u>SERVICE</u> Floor El. <u>9'</u>	Room, Area	
Manufacturer, Model, Etc. (optional but rec	commended) <u>GOULD</u>	
Instructions for Completing Checklist This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of an ring questions may be used to record the e end of this checklist for documenting of	a item of equipment on the results of judgments and other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requiring	ication required (i.e., is the item one Y g such verification)?	N∐
2. Is the anchorage free of bent, broken	n, missing or loose hardware? Y	
3. Is the anchorage free of corrosion th oxidation?	nat is more than mild surface	/🛛 N U U N/A
4. Is the anchorage free of visible crac	ks in the concrete near the anchors? Y	/X N U N/A
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v Consistent with USI A-46 SEWS and	tistent with plant documentation? The item is one of the 50% for verification is required.) d 11448-PSSK-1021A36.131	″⊠ N⊡ U⊡ N/A⊡
6. Based on the above anchorage evalue potentially adverse seismic condition	uations, is the anchorage free of Sons?	

YX NO UNAD

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-028

Interaction Effects

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

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

Other Adverse Conditions

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

<u>Comments</u> (Additional pages may be added as necessary)

Pump base has mild corrosion \rightarrow not a seismic concern.

Evaluated by: <u>Larry Cullivan</u>	Alliva J.	Date:	<u>8/29/12</u>	
Evaluated by: <u>David Germano</u>	David Hormano	Date:	8/29/12	

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-029</u>

AWC # <u>SP1-WB-021</u>		Status Y🛛 N🗌 U
Equipment ID No. <u>1-SW-P-1C</u>	Equip. Class_6	
Equipment Description <u>EMERGENCY SN</u>	<u>PUMP</u>	
Location: Bldg. <u>ESPH</u> Floor El. <u>1</u>	8' Room, Area <u>ESW PUMP</u>	
Manufacturer, Model, Etc. (optional but re	commended) SULZER BINGHAM,	VLTM, 45 FTHO
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the space is provi	he results of the Seismic Walkdown of wing questions may be used to record t he end of this checklist for documentin	an item of equipment on the the results of judgments and og other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requiring	fication required (i.e., is the item one ng such verification)?	YM N
 Is the anchorage free of bent, broken Noted lack of thread engagement of Lacking 1 – 1 ½ threads. Found to anchors vs 1" anchors at 1A/B put 	en, missing or loose hardware? It westernmost two of four anchors. be acceptable. Note these are 1 ¼" nps.	Y⊠ N⊡ U⊡ N/A⊡
3. Is the anchorage free of corrosion oxidation?	that is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cra	icks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration cor (Note: This question only applies) which an anchorage configuration Consistent with USI A-46 SEWS Drawing 11448-FC-9H/9M	isistent with plant documentation? if the item is one of the 50% for verification is required.)	Y⊠ N□ U□ N/A□

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

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-029</u>

Interaction	Effects

7. Are soft targets free from impact by nearby equipment or structures?	YX N UNA

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: <i>Ellery Baker</i>	Elly Bar	Date: <u>8/27/12</u>
Evaluated by: <u>Matthew Winter</u>	Matte W.	Date: 8/27/12

Seismic Walkdown Checklist (SWC)

AWC # SP1-WB-022		Status VM NC UC
Equipment ID No. 1-PS D 24	Fauin Class 6	
Equipment ID No. <u>1-RS-F-2A</u>	Equip. Class_0	
Equipment Description OUTSIDE KS POM	<u></u>	
Location: Bldg. <u>SFGD</u> Floor El. <u>12</u>	<u>'</u> Room, Area <u>RS/SI Pump A</u>	lrea
Manufacturer, Model, Etc. (optional but rec	commended) <u>SULZER BINGHAM 1</u>	0 x 18B J-VCR, AH
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ing questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verifing of the 50% of SWEL items requiring	ication required (i.e., is the item one g such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broken	n, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion the oxidation?	at is more than mild surface	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible crac	ks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v	istent with plant documentation? the item is one of the 50% for rerification is required.)	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluption potentially adverse seismic condition <i>Pump supports are bedded (not frict Containment wall support.</i>	uations, is the anchorage free of ons? etion sliding) to Reactor	YM NO UO

Page	2	of	2
------	---	----	---

SWC # <u>SP1-WD-SWEL-030</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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: <i>Ellery Baker</i>	Elles Bara	Date: 8/22/12
Evaluated by: William Gallagher, Sr	Ulilliam Mal	Date: 8/22/12
· · · · · · · · · · · · · · · · · · ·		<u> </u>

Seismic Walkdown Checklist (SWC)

AW/C # SD1 WD 022		Status VM NC LICI
AWC # <u>SF1-WB-022</u>		
Equipment ID No. <u>1-SI-P-1A</u>	Equip. Class_6	· · · · · · · · · · · · · · · · · · ·
Equipment Description <u>SAFETY INJECTIO</u>	<u>ON PUMP</u>	
Location: Bldg. <u>SFGD</u> Floor El. <u>12</u>	<u>'</u> Room, Area <u>RS/SI Pump A</u>	<u>lrea</u>
Manufacturer, Model, Etc. (optional but rec	commended) <u>BYRON JACKSON PU</u>	MP, TURBINE PUMP
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ing questions may be used to record the e end of this checklist for documenting	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requiring	ication required (i.e., is the item one g such verification)?	Y NX
2. Is the anchorage free of bent, broken	n, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion th oxidation?	nat is more than mild surface	YX NI UI N/AI
4. Is the anchorage free of visible crac	ks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v	istent with plant documentation? the item is one of the 50% for rerification is required.)	
 Based on the above anchorage eval potentially adverse seismic condition 	uations, is the anchorage free of ons?	YM NO UO

SWC # <u>SP1-WD-SWEL-031</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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: <i>Ellery Baker</i>	Ellent Bon	1 Date: <u>8/22/12</u>
Evaluated by: William Gallagher. S	Il illiain Kaich	Date: 8/22/12
Dialanda ogi. <u>Humani Samagior, S</u>		<u> </u>

AWC # SP1-WB-010	Status YX ND UD
Equipment ID No. 1-VS-P-1D Equip. Class 6	
Equipment Description SERVICE WATER PUMP	· · · · · · · · · · · · · · · · · · ·
Location: Bldg TURB Floor Fl 10' Room Area	MER 5
Manufacturar Model Eta (ontional but recommanded) COULD	MILA 5
Manufacturer, Model, Etc. (optional but recommended)	
This checklist shall be used to document the results of the Seismic SWEL. The space below each of the following questions may be us findings. Additional space is provided at the end of this checklist for	Walkdown of an item of equipment on the sed to record the results of judgments and or documenting other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is of the 50% of SWEL items requiring such verification)?	the item one Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hard	lware? Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild su oxidation?	rface Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near	the anchors? Y⊠ N□ U□ N/A□
 Is the anchorage configuration consistent with plant docum (Note: This question only applies if the item is one of the 5 which an anchorage configuration verification is required.) 	entation? Y□ N□ U□ N/A⊠ 0% for
6. Based on the above anchorage evaluations, is the anchorag potentially adverse seismic conditions?	e free of YX NI UI

SWC # <u>SP1-WD-SWEL-032</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?	YX NI UI
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO
<u>Comments</u> (Additional pages may be added as necessary)	
· · · · · · · · · · · · · · · · · · ·	
Evaluated by: Larry Cullivan Alallion D.	Date: <u>8/23/12</u>
Evaluated by: Kevin McGuire KMM	_ Date: <u>8/23/12</u>

Page C-52

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-033

AWC # <u>SP1-WB-026</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-FW-HCV-155A</u>	Equip. Class_07	
Equipment Description FW/SG A FW BY	P FLOW	
Location: Bldg. <u>SERV</u> Floor El. <u>4</u>	2' Room, Area <u>MER-1</u>	
Manufacturer, Model, Etc. (optional but re	commended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the space is provided at the space is provided at the space space is provided at the space space space.	he results of the Seismic Walkdown of wing questions may be used to record the end of this checklist for documenting	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requirin	fication required (i.e., is the item one ng such verification)?	Y NX
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y N U N/A
3. Is the anchorage free of corrosion t oxidation?	that is more than mild surface	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cra	cks in the concrete near the anchors?	Y□ N□ U□ N/A⊠

5.	Is the anchorage configuration consistent with plant documentation?	ΥD	N	UΠ	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 Y⊠ N□ U□ potentially adverse seismic conditions?

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-033

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YX NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	YX NO UO N/AO
and masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	YX NO UO N/AO
10. Based on the above seismic interaction evaluations, is equipment free	YX ND UD
of potentially adverse seismic interaction effects?	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could	YX NO UO
adversely affect the safety functions of the equipment?	
Comments (Additional pages may be added as necessary)	
	<u></u>
Evaluated by: Larry Cullivan Doullow .	_ Date: <u>8/23/12</u>

Evaluated by: <u>Kevin McGuire</u> KMM

Seismic Walkdown Checklist (SWC)

AWC # SP1-WB-006		Status Y⊠ N□ U□
Equipment ID No. 1-MS-PCV-102A	Equip. Class 7	
Equipment Description TERRY TURRINE	· PCV	
Equipment Description <u>TERMI TONDAVE</u>		
Location: Bldg. <u>MSVH</u> Floor El. <u>27</u>	C Room, Area <u>AFW Pump A</u>	<u>rea</u>
Manufacturer, Model, Etc. (optional but re	commended) <u>FISHER CONTROLS</u>	INTERNATIONAL
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	ne results of the Seismic Walkdown of wing questions may be used to record t ne end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verified of the 50% of SWEL items requiring	fication required (i.e., is the item one ng such verification)?	Y NX
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion t oxidation?	hat is more than mild surface	
4. Is the anchorage free of visible crac	cks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration con (Note: This question only applies i which an anchorage configuration	sistent with plant documentation? f the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
 Based on the above anchorage eval potentially adverse seismic conditi 	luations, is the anchorage free of ons?	YX ND UD

SWC # <u>SP1-WD-SWEL-034</u>

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? YX N UNA
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX NI UI N/AI and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

- 11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment?
- Comments (Additional pages may be added as necessary)

Evaluated by: Ellery Baker	Ellas Bor	Date: 8/21/12
Evaluated by: William Gallagher. Sr	Alean Stalk	Date: 8/21/12

ı.

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-035</u>

AWC # <u>SP1-WB-020</u>	Status Y🛛 N🗖 U🗖
Equipment ID No. <u>1-DA-TV-103A</u> Equip. Class <u>07</u>	
Equipment Description OUTSIDE CONTAINMENT RET HDR TV	
Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> 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 SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting the space of the spac	an item of equipment on the the results of judgments and g other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
 Is the anchorage configuration consistent 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?	YX NO UO

SWC # <u>SP1-WD-SWEL-035</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?	YM NO UO
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	
Comments (Additional pages may be added as necessary)	
Evaluated by: William Gallagher. Sr. M. Sala	Date: 8/27/12
Evaluated by: <u>Ellery Baker</u>	Date: <u>8/27/12</u>

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-036</u>

AWC # SP1-WB-042	Status Y⊠ N□ U□
Equipment ID No. 1-LM-TV-100A Equip. Class 07	
Equipment Description LM/LMC TAP 3 & 6 BAROMETER SUP TRIP VALVE	
Location: Bldg. AUX Floor El. 13' 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 SWEL. The space below each of the following questions may be used to record a findings. Additional space is provided at the end of this checklist for documenting for the space of the sp	an item of equipment on the the results of judgments and ag other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	
 Is the anchorage configuration consistent 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?	YM NO UO

SWC # <u>SP1-WD-SWEL-036</u>

eraction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YX NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
her Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO
 her Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? mments (Additional pages may be added as necessary) 	Y⊠ N⊡ U⊡
her Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? mments (Additional pages may be added as necessary)	Y⊠ N⊡ U⊡
her Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? mments (Additional pages may be added as necessary) aluated by: William Gallagher, Sr. Wayson Constraints	Y⊠ N□ U□ Date: <u>8/24/12</u>

Seismic Walkdown Checklist (SWC)

AWC # <u>SP1-WB-024</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-MS-TV-101A</u>	Equip. Class 7	
Equipment Description <u>MS TRIP VALVE</u>		
Location: Bldg. <u>MSVH</u> Floor El. <u>40</u>	2' Room, Area <u>GA/5.6</u>	
Manufacturer, Model, Etc. (optional but re	commended) <u>SHUTTE & KOERTIN</u>	'G CO.
Instructions for Completing Checklist This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	e results of the Seismic Walkdown of ving questions may be used to record t a eend of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	fication required (i.e., is the item one ag such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y N U V N/A
3. Is the anchorage free of corrosion to oxidation?	hat is more than mild surface	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible crac	cks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration com (Note: This question only applies in which an anchorage configuration	sistent with plant documentation? f the item is one of the 50% for verification is required.)	
 Based on the above anchorage eval potentially adverse seismic condition 	luations, is the anchorage free of ons?	YM NO UO

SWC # SP1-WD-SWEL-037

.

nteraction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	YX NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO
<u>Comments</u> (Additional pages may be added as necessary)	
·	
Evaluated by: Larry Cullivan Hallion .	_ Date: <u>8/23/12</u>
Evaluated by: Kevin McGuire KM	Date: 8/23/12
Seismic Walkdown Checklist (SWC)

AWC # <u>SP1-WB-006</u>	Status Y⊠ N□ U□
Equipment ID No. 1-MS-TV-120 Equip. Class 7	
Equipment Description TERRY TURBINE STEAM ISOLATION	
Location: Dida MSVH ElocatEl 27' Boom Area AEW Burn	4400
Location. Bug. <u>MSVII</u> Floor EL <u>27</u> Room, Area <u>Arw Fump 7</u>	<u>17ea</u>
Manufacturer, Model, Etc. (optional but recommended) <u>GIMPEL GROUP, P3</u>	435
Instructions for Completing Checklist This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documentin	f an item of equipment on the the results of judgments and ng other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y NU UNAX
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y N UN N/A
 Is the anchorage configuration consistent 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?	YM NO UO

Seismic Walkdown Checklist (SWC)

	·····
teraction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	YX NO UNAO
9. Do attached lines have adequate flexibility to avoid damage?	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
ther Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO
omments (Additional pages may be added as necessary)	

Evaluated by: <u>Ellery Baker</u>	Film Bar	Date: 8/21/12
Evaluated by: William Gallagher, St.	Vielan Nally	Date: 8/21/12
	100-00-	

Seismic Walkdown Checklist (SWC)

AWC # <u>SP1-WB-042</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-LM-TV-100C</u> Equip. Class <u>07</u>	
Equipment Description LM/LMC TAP 1 & 8 BAROMETER SUP TRIP VALVE	
Location: Bldg. <u>AUX</u> Floor El. <u>13</u> ' 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 SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for document	of an item of equipment on the the results of judgments and ing other comments.
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	Y NX
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
 Is the anchorage configuration consistent 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□

SWC # <u>SP1-WD-SWEL-039</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□
<u>Comments</u> (Additional pages may be added as necessary)	· ·
Evaluated by: William Gallagher, Sr. May	_ Date: <u>8/24/12</u>
Evaluated by: <u>Ellery Baker</u>	Date: <u>8/24/12</u>

SWC # <u>SP1-WD-SWEL-040</u>

AWC # <u>SP1-WB-020</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-CV-TV-150A</u> Equip. Class <u>7</u>	
Equipment Description CONT VACUUM PUMP 1B SUCTION	
Location: Bldg. <u>AUX</u> Floor El. <u>2</u> ' Room, Area <u>PENETRATION</u>	<u>ON AREA</u>
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documentin	an item of equipment on the the results of judgments and ag other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y NX
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y NU UNAX
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y NU UN/AX
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent 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?	YM NO UO

. . . .

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-040</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?	YM NO UO
<u>Comments (Additional pages may be added as necessary)</u>	
Evaluated by: <u>Ellery Baker</u>	_ Date: <u>8/22/12</u>
Evaluated by: <u>William Gallagher, Sr. UMEaly</u>	_ Date: <u>8/22/12</u>

Surry Power Stati	n NTTF 2.3 Seismic Walkdown Summary Report	Appendix C	Page C-68 Page 1 of 2		
Seismic Walkdown Checklist (SWC)					
SWC # <u>SP1-WD-SWEL-041</u>					

· •

.

AWC # <u>SP1-WB-020</u> Status Y⊠ N□ U□
Equipment ID No. <u>1-CC-TV-109B</u> Equip. Class 7
Equipment Description <u>RHR OUTLET TRIP VALVE</u>
Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>K/7.4</u>
Manufacturer, Model, Etc. (optional but recommended) <u>FISHER CONTROLS INTERNATIONAL</u>
Instructions for Completing Checklist
This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
1. Is the anchorage configuration verification required (i.e., is the item one Y□ N⊠ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface Y□ N□ U□ N/A⊠ oxidation?
4. Is the anchorage 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 Y⊠ N□ U□ potentially adverse seismic conditions?

SWC # SP1-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?	YX NI UI N/AI
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO

Comments (Additional pages may be added as necessary)

Evaluated by: <u>Ellery Baker</u>	Eller Bar	Date:	8/22/12
Evaluated by: William Gallagher, S	1 love in the all	Date:	8/22/12
······································)	

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-042</u>

AWC # <u>SP1-WB-026</u>

Status Y⊠ N□ U□

Equipment ID No. <u>1-FW-FCV-1488</u> Equip. Class <u>7</u>

Equipment Description MAIN FEED REG VALVE

Location: Bldg. <u>SERVICE</u> Floor El. <u>42</u> Room, Area <u>MER 1</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missin	g or loose hardware?	Y_ N_ U_ N/4	$A \boxtimes$
3. Is the anchorage free of corrosion that is mo oxidation?	re than mild surface	Y_ N_ U_ N/4	A
4. Is the anchorage free of visible cracks in the	concrete near the anchors?	Y	AØ
5. Is the anchorage configuration consistent wi (Note: This question only applies if the item which an anchorage configuration verification	th plant documentation? is one of the 50% for on is required.)	Y_ N_ U_ N/.	A⊠
6. Based on the above anchorage evaluations, potentially adverse seismic conditions?	is the anchorage free of	YX ND UD	

SWC # <u>SP1-WD-SWEL-042</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?	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free	
of potentially adverse seismic interaction effects?	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could	Y⊠ N□ U□
adversely affect the safety functions of the equipment?	
Comments (Additional pages may be added as necessary)	
Evaluated by: Larry Cullivan A Cullion .	_ Date: <u>8/23/12</u>
I/M-M-	
Evaluated by: <u>Kevin McGuire IX / 1</u>	Date: <u>8/23/12</u>

SWC # <u>SP1-WD-SWEL-046</u>		
AWC # <u>SP1-WB-017</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-CS-MOV-101A</u>	Equip. Class <u>8</u>	
Equipment Description <u>CS PUMP DSCH</u>		
Location: Bldg. <u>CSPH</u> Floor El. <u>11</u>	Room, Area	
Manufacturer, Model, Etc. (optional but rec	ommended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ing questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verifi of the 50% of SWEL items requiring	cation required (i.e., is the item one g such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broker	n, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion th oxidation?	at is more than mild surface	Y N U N/A
4. Is the anchorage free of visible crack	ks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
 Is the anchorage configuration const (Note: This question only applies if which an anchorage configuration v 	istent with plant documentation? the item is one of the 50% for erification is required.)	Y□ N□ U□ N/A⊠
 Based on the above anchorage evalue potentially adverse seismic condition 	nations, is the anchorage free of ns?	

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-046

Intera	ction	Effects

7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
	å
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan	Floallivan J.	Date:	8/22/12
Evaluated by: <u>Kevin McGuire</u>	K-MM-	Date:	8/22/12

SWC # <u>SP1-WD-SWEL-047</u>		
AWC # <u>SP1-WB-017</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-CS-MOV-102A</u>	Equip. Class_8	
Equipment Description CHEMICAL ADD	ITION TANK ISOLATION	
Location: Bldg. <u>CSPH</u> Floor El. <u>1</u> .	l' Room, Area	· · · · · · · · · · · · · · · · · · ·
Manufacturer, Model, Etc. (optional but re	commended)	
Instructions for Completing Checklist This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at the	ne results of the Seismic Walkdown of wing questions may be used to record t ne end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requirin	fication required (i.e., is the item one ng such verification)?	Y NX
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y_ N_ U_ N/AØ
3. Is the anchorage free of corrosion to oxidation?	hat is more than mild surface	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cra	cks in the concrete near the anchors?	Y N U N/A
5. Is the anchorage configuration con (Note: This question only applies i which an anchorage configuration	sistent with plant documentation? f the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
Based on the above anchorage eva potentially adverse seismic condition	luations, is the anchorage free of ons?	YX NI UI

SWC # <u>SP1-WD-SWEL-047</u>

<u>Interaction Effects</u> 7 Are soft targets free from impact by nearby equipment or structures?	
7. The solt targets nee from impact by hearby equipment of situatures:	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX ND UD
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO
Comments (Additional pages may be added as necessary)	
hin na	
Evaluated by: Larry Cullivan Hophilwan	_ Date: <u>8/22/12</u>

Evaluated by: Kevin McGuire	K-m.j.	Date:	8/22/12
,			

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-048</u>

AWC # <u>SP1-WB-030</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-CW-MOV-100A</u> Equip. Class <u>8</u>	
Equipment Description <u>CONDENSER OUTLET</u>	
Location: Bldg. <u>TURB</u> Floor El. <u>9</u> ' Room, Area <u>Condenser Area</u>	
Manufacturer, Model, Etc. (optional but recommended) <u>PRATT, HENRY, CO. XR-70</u>	0 96IN

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent 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?	YM NO UO

.

SWC # <u>SP1-WD-SWEL-048</u>

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YX NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	YX NO UO N/AO
	· ·
10. Based on the above seismic interaction evaluations, is equipment free	
of potentially adverse seismic interaction effects?	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO
<u>Comments</u> (Additional pages may be added as necessary)	
SEWS	
Drawing 11448-FC-2J	
Evaluated by: Tim Wattleworth Junahy Shab	Date: <u>8/21/12</u>
Evaluated by: Matthew Winter	Date: 8/21/12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-049</u>

AWC # SP1-WB-030		Status Y⊠ N□ U□
Equipment ID No. 1-CW-MOV-106A E	quip. Class 8	
Equipment Description CONDENSER INLET	r	
Location: Bldg. TURB Floor El. 9'	Room, Area Condenser Ar	·ea
Manufacturer, Model, Etc. (optional but recor	nmended) PRATT, HENRY, CO.	 XR-70 96IN
Instructions for Completing Checklist		
This checklist shall be used to document the r SWEL. The space below each of the followin findings. Additional space is provided at the e	esults of the Seismic Walkdown of g questions may be used to record t end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verification of the 50% of SWEL items requiring s	ation required (i.e., is the item one such verification)?	Y NX
2. Is the anchorage free of bent, broken,	missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that oxidation?	is more than mild surface	
Note: mild surface corrosion on tension	on connection all thread bolts	
4. Is the anchorage free of visible cracks	in the concrete near the anchors?	
5. Is the anchorage configuration consist (Note: This question only applies if th which an anchorage configuration ver	tent with plant documentation? he item is one of the 50% for dification is required.)	Y N U V/A
 Based on the above anchorage evalua potentially adverse seismic conditions CR 485421 – valve actuator to valve seismic challenge 	tions, is the anchorage free of s? bonnet loose, retorque, no	Y⊠ N□ U□

ł

Seismic Walkdown Checklist (SWC)

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YX NO UO N/AO
 Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Note: condenser inlet 1A CW Inlet RTD-100A is missing a clip CR 485699 – 38-01-CW-37 condenser inlet 1A tube run poorly 	Y⊠ N□ U□ N/A□
supported	
CR 485704 – conduit support clip for 38-01-CW-RTD-100A is missing	
9. Do attached lines have adequate flexibility to avoid damage?	YX NI UI N/AI
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO
Comments (Additional pages may be added as necessary)	
CR 485562- stuffing box gland follower loose drip water at bottom of 1.	A, note also at 1C
Consistent with USI A-46 SEWS	
Drawing 11448-FC-2F	
Evaluated by: <u>Tim Wattleworth</u> Junoth Alob	Date: <u>8/21/12</u>
Further Matter Winter	Date: 8/21/12
Evaluated by: <u>Matthew Winter</u>	Date: <u>0/21/12</u>

ł

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-050</u>

AWC # <u>SP1-WB-030</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-CW-MOV-106C</u> E	quip. Class 8
Equipment Description CONDENSER INLET	
Location: Bldg. <u>TURB</u> Floor El. <u>9'</u>	Room, Area Condenser Area
Manufacturer, Model, Etc. (optional but recon	nmended) PRATT, HENRY, CO. XR-70 96IN

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
Note: some mild surface corrosion on approximately 30% of tension connection all-thread steel studs and nuts.	
4. Is the anchorage free of visible cracks in the concrete near the anchors?	
5. Is the anchorage configuration consistent 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□

Surry Power Station	NTTF 2.3 Seismic Walkdown Summar	y Report	Appendix C	Page
---------------------	----------------------------------	----------	------------	------

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-050</u>

•

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YX NO UO N/AO
 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? -CR 485543 for conduit for 1-CW-RTD-100D needs to be supported at west end 1D waterbox access platform. -CR 485711 - condenser inlet 1D tube run to 38-01-CW-24 is missing support. -CR 485746 - CW-RTD-100C conduit support clip is missing. 	Y⊠ N⊡ U⊡ N/A⊡
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
<u>Other Adverse Conditions</u> 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments (Additional pages may be added as necessary)</u> CR 485536 to note SW-MOV-106C (and 106A) stem packing collar bol lock washer loose	ts, 2 each at approximately ³ /4
Consistent with USI A-46 SEWS Drawing 11448-FC-2F	
Evaluated by: Tim Wattleworth Junety Histo	Date: <u>8/21/12</u>
Evaluated by: <u>Matthew Winter</u>	Date: <u>8/21/12</u>

e C-81

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-051</u>

AWC # $\underline{SP1-WB-031}$ Status Y \boxtimes N \square U \square
Equipment ID No. <u>1-SW-MOV-101A</u> Equip. Class <u>8</u>
Equipment Description <u>BC HX ISOLATION</u>
Location: Bldg. <u>TURB</u> Floor El. <u>9'</u> Room, Area <u>Valve Pit</u>
Manufacturer, Model, Etc. (optional but recommended) PRATT, HENRY, CO. XR-70 36IN
Instructions for Completing Checklist
This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is the anchorage configuration verification required (i.e., is the item one Y□ N⊠ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N V N/A
 3. Is the anchorage free of corrosion that is more than mild surface Y□ N□ U□ N/A⊠ oxidation? Note: Mild surface corrosion generally noted on all tension connection all-thread and nuts.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y \square N \square U \square 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	YX ND UD
	potentially adverse seismic conditions?	

SWC # SP1-WD-SWEL-051

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? YX NO UO N/AO

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX NO UO N/AO and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage? YX NO UO N/AO
- 10. Based on the above seismic interaction evaluations, is equipment free YX ND UD of potentially adverse seismic interaction effects?

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could YX ND UD adversely affect the safety functions of the equipment?

Comments (Additional pages may be added as necessary)

Reference: Drawing 11448-FC-2C SEWS

	1 1.10 1		
Evaluated by: <u>Tim Wattleworth</u>	Sauch Ahrat	_ Date:	8/21/12
Evaluated by: Matthew Winter	Matt W	Date:	8/21/12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-052</u>

AWC # <u>SP1-WB-014</u>

Status Y⊠ N□ U□

Equipment ID No. <u>1-CH-MOV-1267A</u> Equip. Class <u>8</u>

Equipment Description CH/CHARGING PUMP INLET ISOL

Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>"A" CHARGING PUMP CUBICLE</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y N U N/AØ
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yo no uo n/Ao
5. Is the anchorage configuration consistent 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?	YX NO UO

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

SWC # <u>SP1-WD-SWEL-052</u>

-

· ·	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YX NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	
and masonry block walls not likely to collapse onto the equipment?	
0. Do attached lines have adopted flowibility to avoid demogra?	
9. Do attached lines have adequate nexionity to avoid damage?	
10. Based on the above seismic interaction evaluations, is equipment free	YX NO UO
of potentially adverse seismic interaction effects?	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NI UI
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: <u>Ellery Baker</u>	_ Date: <u>8/23/12</u>
Evaluated by: William Gallagher, Sr William Mall	Date: <u>8/23/12</u>

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-053</u>

AWC # SP1-WB-014

Status Y⊠ N□ U□

Equipment ID No. <u>1-CH-MOV-1275A</u> Equip. Class <u>8</u>

Equipment Description <u>CH/CHARGING PUMP RECIRC</u>

Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>"A" CHARGING PUMP CUBICLE</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent 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?	YX NO UO

SWC # SP1-WD-SWEL-053	6
-----------------------	---

	· .
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX NO UO
 Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? 	YM NO UO
Comments (Additional pages may be added as necessary)	

Evaluated by: <i>Ellery Baker</i>	Alt, Bar Date: 8/23/12	
Evaluated by: William Gallagher, S	Allain Celt Date: 8/23/12	

-

SWC # <u>SP1-WD-SWEL-057</u>		
AWC # <u>SP1-WB-034</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-VS-F-58A</u>	Equip. Class_9	
Equipment Description FILTER 3A EXHA	<u>UST FAN</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>47</u>	<u>'</u> Room, Area <u>J/10</u>	
Manufacturer, Model, Etc. (optional but rec	commended)	
Instructions for Completing Checklist This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	e results of the Seismic Walkdown of ring questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	ication required (i.e., is the item one g such verification)?	YX ND
2. Is the anchorage free of bent, broke	n, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion th oxidation?	nat is more than mild surface	Y⊠ N⊡ U⊡ N/A⊡
4. Is the anchorage free of visible crac	ks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v Drawing 11448-FC-24GG	istent with plant documentation? The item is one of the 50% for verification is required.)	Y⊠ N□ U□ N/A□
Based on the above anchorage eval potentially adverse seismic condition	uations, is the anchorage free of ons?	YM NO UO

······································	
teraction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YX NO UO N/AO
8 Are overhead equipment distribution systems, ceiling tiles and lighting	
and masonry block walls not likely to collapse onto the equipment?	
0. Do attached lines have adapted flexibility to avoid damage?	
5. Do anached miles have adequate nextonity to avoid damage:	
10. Based on the above seismic interaction evaluations, is equipment free	YN NI UI
of potentially adverse seismic interaction effects?	
ther Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could	
adversely affect the safety functions of the equipment?	
Inmmonte (Additional passa may be added as assessed)	
Comments (Authonal pages may be auteu as necessary)	
And No. A.	
Evaluated by: Larry Cullivan AMMUM,	Date: 8/24/12
valuated by: <u>Kevin McGuire</u> K-M 17	Date: <u>8/24/12</u>

SWC # <u>SP1-WD-SWEL-058</u>

AWC # <u>SP1-WB-034</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-VS-F-58B</u>	Equip. Class_9	· · · · · · · · · · · · · · · · · · ·
Equipment Description FILTER 3B EXHA	<u>UST FAN</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>47</u>	7' Room, Area <u>J/10</u>	
Manufacturer, Model, Etc. (optional but re	commended)	
Instructions for Completing Checklist This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ving questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage 1. Is the anchorage configuration veri- of the 50% of SWEL items requirin	fication required (i.e., is the item one ag such verification)?	YM ND
2. Is the anchorage free of bent, broke	n, missing or loose hardware?	Y⊠ N□ U□ N/A□

- 3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors? Y⊠ N□ U□ N/A□
- 5. Is the anchorage configuration consistent with plant documentation? Y⊠ N□ U□ N/A□ (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
 Drawing 11448-FC-24GG
- 6. Based on the above anchorage evaluations, is the anchorage free of Y⊠ N□ U□ potentially adverse seismic conditions?

.

Seismic Walkdown Checklist (SWC)		
SWC # <u>SP1-WD-SWEL-058</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?		
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM ND UD	
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	צא שר	
<u>Comments</u> (Additional pages may be added as necessary)		
Evaluated by: Larry Cullivan Houlling	Date: 8/24/12	

Evaluated by: Kevin McGuire 15-WM

¢

Date: <u>8/24/12</u>

.

.

Page 1 of 2

Seismic Walkdown Checklist (SWC)

· . .

SWC # <u>SP1-WD-SWEL-061</u>

AWC # SP1-WB-035 Status VM NIT UIT
Equipment ID No. 1 CS MD 1D Equip Close 11
Equipment ID No. <u>1-CS-MK-IB</u> Equip. Class <u>11</u>
Equipment Description <u>RWST REFRIGERATOR UNIT</u>
Location: Bldg. <u>YARD</u> Floor El. <u>27</u> ' Room, Area
Manufacturer, Model, Etc. (optional but recommended) <u>DRAKE INDUSTRIES INC., 20A0CS10</u>
Instructions for Completing Checklist
This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is the anchorage configuration verification required (i.e., is the item one Y□ N⊠ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N \square V \square N/A \square
 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.)
 Based on the above anchorage evaluations, is the anchorage free of Y⊠ N□ U□ potentially adverse seismic conditions?

SWC # <u>SP1-WD-SWEL-061</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,	Y N U N/A
and masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	YX NO UN N/AO
10. Based on the above seismic interaction evaluations, is equipment free	YX NO UO
of potentially adverse seismic interaction effects?	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO
Comments (Additional pages may be added as necessary)	
Enclosed have Culture Alla Mais Ch.	Data: 8/21/12
Evaluated by: <u>Larry Cullivan</u>	Date: <u>0/21/12</u>
Evaluated by: Kevin McGuire	_ Date: <u>8/21/12</u>

.

.

<.

SWC # <u>SP1-WD-SWEL-062</u>		
AWC # <u>SP1-WB-003</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-VS-E-4B</u>	Equip. Class_11	
Equipment Description <u>CHILLER</u>		
Location: Bldg. <u>SERVICE</u> Floor El. <u>9</u>	<u>'-6''</u> Room, Area <u>MER 3</u>	
Manufacturer, Model, Etc. (optional but re	commended) <u>WESTINGHOUSE PAI</u> <u>CONDENSER, EAST</u>	<u>VEL, MCQUAY</u> COAST COMPRESSOR
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the space below each of the follow findings.	he results of the Seismic Walkdown of wing questions may be used to record the he end of this checklist for documenting	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items require	fication required (i.e., is the item one ng such verification)?	Y⊠ N□
2. Is the anchorage free of bent, brok	en, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion oxidation?	that is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cra	cks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration cor (Note: This question only applies which an anchorage configuration <i>Consistent with USI A-46 SEWS a</i> <i>XE</i>	nsistent with plant documentation? if the item is one of the 50% for verification is required.) nd calc. no. 01039.4610-NPB-022-	Y⊠ N□ U□ N/A□
Based on the above anchorage eva potentially adverse seismic condit	aluations, is the anchorage free of ions?	YX NO UO

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-062</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? <i>Fluorescent lights overhead not a seismic concern per USI A-46.</i>	Y⊠ N⊡ U⊡ N/A⊡
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX ND UD
Other Adverse Conditions 11. Have you looked for and found no 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: Larry Cullivan Allivan D.	_ Date: <u>8/29/2012</u>
Evaluated by: David Germano David Lormona	Date: 8/29/2012

١,

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-063

AWC	# 9	SP1-WB-010
	_	

Status YX N U

Equipment ID No. <u>1-VS-E-4E</u> Equip. Class <u>11</u>

Equipment Description MCR/ESGR CHILLER

Location: Bldg. <u>TURB</u> Floor El. <u>9'-6''</u> Room, Area <u>MER5</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	YX NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing 11548-FC-6F 	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX ND UD

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-063</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?	YM NO UO
Other Adverse Conditions	
11. Have you looked for and found no 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: Larry Cullivan Journ Journ	_ Date: <u>8/23/12</u>
Evaluated by: <u>Kevin McGuire</u> KMM	Date: <u>8/23/12</u>
Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-064</u>

A٧	NC	3	#	S	P	1-	V	V	B	-	0	0	1	

Status Y⊠ N□ U□

Equipment ID No. <u>1-EG-C-2</u> Equip. Class <u>12</u>

Equipment Description EDG AIR COMPRESSOR No. 2

Location: Bldg. <u>SERVICE</u> Floor El. <u>27</u>' Room, Area <u>EDG 1 ROOM</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	YM NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Consistent with Drawing: 11448-1.30-104A</i>	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NI UI

Interaction Effects	· · · · · ·
 7. Are soft targets free from impact by nearby equipment or structures? 1) After cooler 1-EG-E-7 well supported. Installed DCP 04-013 2) Overhead steam line to space heater is rod hung → adequate to restrain line during seismic event 	Y⊠ N□ U□ N/A□
 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? -Large overhead light secured Unistrut that is rod hung. Acceptable. 	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N⊡ U⊡
Other Adverse Conditions	
11. Have you looked for and found no 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: Daniel J. Vasquez	_ Date: <u>8/21/12</u>
Evaluated by: David Germano	Date: <u>8/21/12</u>

Seismic Walkdown Checklist (SWC)

AWC # SP2-WB-030	Status Y⊠ N□ U□
Fauinment ID No. 1-IA-C-1 Equin Class 12	
Equipment ID 110. <u>111101</u> Equip. Class_12	
Equipment Description <u>INSTROMENT AIR COMPRESSOR</u>	
Location: Bldg. \underline{TURB} Floor El. $\underline{9'}$ Room, Area \underline{TU}	<u>IRBINE</u>
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist This checklist shall be used to document the results of the Seismic Wa SWEL. The space below each of the following questions may be used findings. Additional space is provided at the end of this checklist for d	lkdown of an item of equipment on the to record the results of judgments and ocumenting other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the of the 50% of SWEL items requiring such verification)?	item one Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardwa	re? YX NI UN/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	ce Y⊠ N⊡ U⊡ N/A⊡
4. Is the anchorage free of visible cracks in the concrete near the	anchors? YX NI UI N/AI
5. Is the anchorage configuration consistent with plant document (Note: This question only applies if the item is one of the 50% which an anchorage configuration verification is required.) <i>Per Drawing 11548-FC-6A. (Note: 1-IA-C-1 is on Unit 2 side)</i>	ation? Y⊠ N□ U□ N/A□ o for)
6. Based on the above anchorage evaluations, is the anchorage fraction potentially adverse seismic conditions?	ree of YX NI U

Page	2	of	2
------	---	----	---

Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? CR 486192 – tubing run from compressor outlet vertically and west is not securely supported, has loose and missing nuts on supports. This was determined not to be a seismic 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□
<u>Comments</u> (Additional pages may be added as necessary)	· · · ·
Evaluated by: <u>Tim Wattleworth</u> Math W for T.W. per teleor	_ Date: <u>8/24/12</u>
Evaluated by: Matthew Winter Math W.	Date: 8/24/12

Seismic Walkdown Checklist (SWC)

AWC # <u>SP1-WB-038</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-EPD-LP-1EC1</u> Equip. Class <u>14</u>	
Equipment Description EMERGENCY LIGHTING PANEL	
Location: Bldg. <u>SERVICE</u> Floor El. <u>27'</u> Room, Area <u>MCR COMPU</u>	TER ROOM #1
Manufacturer, Model, Etc. (optional but recommended) <u>SQUARE D - CAT NO</u>	NA 1B-9-7596-1C
Instructions for Completing Checklist	N
This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record th findings. Additional space is provided at the end of this checklist for documenting	an item of equipment on the ne results of judgments and g other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y NX
2. Is the anchorage free of bent, broken, missing or loose hardware? -Four anchors to Unistrut viewed from inside cabinet -Could not view inside Unistrut since ends are capped -Tug-tested satisfactorily	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N∏ U∏ N/A∏
 Is the anchorage configuration consistent 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?	YX ND UD

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-069

	Interact	ion	Effects
--	----------	-----	---------

- 7. Are soft targets free from impact by nearby equipment or structures? Y⊠ N□ U□ N/A□ Approximately ½" clear of block wall support column to South side of panel. Acceptable based on judgment of both SWEs.
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX N UNA
 and masonry block walls not likely to collapse onto the equipment?
 Block wall panel mounted to is reinforced.
 Drop ceiling panels in overhead. This equipment is classified as NSQ and non-seismic (see note below); therefore, it is not a sensitive target.
- 9. Do attached lines have adequate flexibility to avoid damage? Y⊠ N□ U□ N/A□
- 10. Based on the above seismic interaction evaluations, is equipment free Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment?
Small crack (<0.04") in grouted conduit penetration through the floor. Not a seismic concern.

Comments (Additional pages may be added as necessary)

Note: this component is classified in EDS as NSQ but non-seismic; however, it was included within the scope of USI A-46 and a SEWS package was prepared that indicates that the panel is adequately mounted for seismic.

Evaluated by: <u>Daniel J. Vasquez</u>	~	Date: <u>8/23/12</u>	
Evaluated by: <u>David Germano</u>	David Lermaner	Date: <u>8/23/12</u>	

SWC # SP1-WD-SWEL-070

.....

AWC # SP1_WR_021		Status VM NO UO
Equipment ID No. 1-SW-B 1C	Equip Class 15	
Equipment ID No. <u>1-5W-B-TC</u>	Equip. Class 15	
Equipment Description <u>EMERGENCY SW</u>	<u>Y PUMP BATTERY</u>	·
Location: Bldg. <u>ESW</u> Floor El. <u>18</u> <u>PUMP</u>	B' Room, Area <u>ESPH</u>	
Manufacturer, Model, Etc. (optional but red	commended) <u>EXIDE LEAD CALCIU</u>	JM PLATE
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	the results of the Seismic Walkdown of ving questions may be used to record t the end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verified of the 50% of SWEL items requiring	fication required (i.e., is the item one ag such verification)?	Y NX
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion t oxidation?	hat is more than mild surface	YX NI UI N/AI
4. Is the anchorage free of visible crac	cks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration con (Note: This question only applies is which an anchorage configuration Drawing 11448-FC-9H2/9H3 Note: SEWS is no longer applicable	sistent with plant documentation? f the item is one of the 50% for verification is required.) <i>Ie for this battery rack</i> .	Y□ N□ U□ N/A⊠
Based on the above anchorage eval potentially adverse seismic conditi	luations, is the anchorage free of ons?	YX NI UI

Pane	2	of	2	
Page	Z	OT	Z	

SWC # <u>SP1-WD-SWEL-070</u>

nteraction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX ND UD
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO
Comments (Additional pages may be added as necessary)	
Evaluated by: <u>Ellery Baker</u>	Date: <u>8/27/12</u>
Evaluated by: Matthew Winter Math D	Date: <u>8/27/12</u>

Seismic Walkdown Checklist (SWC)

AWC # <u>SP1-WB-001</u>		Status	Y⊠ N⊑] ע□
Equipment ID No. <u>1-EE-B-EG1</u>	Equip. Class_15			
Equipment Description <u>EDG BATTERY</u>				
Location: Bldg. <u>SERVICE</u> Floor El. <u>27</u>	7' Room, Area <u>EDG #1</u>			
Manufacturer, Model, Etc. (optional but re	commended)			
Instructions for Completing Checklist				
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	te results of the Seismic Walkdown of an iter ving questions may be used to record the result are end of this checklist for documenting other	n of equi ults of ju r comme	ipment or dgments nts.	1 the and
Anchorage 1. Is the anchorage configuration veri of the 50% of SWEL items requirir	fication required (i.e., is the item one YX	N		

2. Is the anchorage free of bent, broken, missing or loose hardware?	YX NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□

- 4. Is the anchorage 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.)
 - Calculation CE-1806 (and 14257.46-DSC-2.1, which has been superseded by CE-1806) considers ½" diameter anchor bolts. Actual configuration is different, but bounded by the analysis-of-record. See sketch for actual bolt configuration.



6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YM NO UO N/AO
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM ND UD
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Daniel J. Vasquez	_ Date: <u>8/23/12</u>
Evaluated by: David Germana Sainic Hormano	Date: 8/23/12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-072</u>

!

AWC # <u>SP1-WB-047</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-EPD-B-1A</u> Equip. Class_1	5
Equipment Description <u>125V BATTERY</u>	
Location: Bldg. <u>SERVICE</u> Floor El. <u>9'-6"</u> Room	, Area <u>BATTERY ROOM</u>
Manufacturer, Model, Etc. (optional but recommended)	CXIDE G
Instructions for Completing Checklist	
This checklist shall be used to document the results of the S SWEL. The space below each of the following questions m findings. Additional space is provided at the end of this che	Seismic Walkdown of an item of equipment on the ay be used to record the results of judgments and exklist for documenting other comments.
Anchorage	
1. Is the anchorage configuration verification required of the 50% of SWEL items requiring such verification	(i.e., is the item one Y⊠ N□ on)?
2. Is the anchorage free of bent, broken, missing or lo	ose hardware? Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than oxidation?	mild surface Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concre	te near the anchors? Y N U U N/A
5. Is the anchorage configuration consistent with plan (Note: This question only applies if the item is one which an anchorage configuration verification is re <i>Consistent with USI A-46 SEWS</i> <i>Calculations 52182-C-006, 52182-C-007</i>	t documentation? Y⊠ N□ U□ N/A□ of the 50% for quired.)
6. Based on the above anchorage evaluations, is the a potentially adverse seismic conditions?	nchorage free of YX NI UI

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
Other Adverse Conditions	
11. Have you looked for and found no 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: <i>Tim Wattleworth</i>	Amathy Sur Date: 8/23/12	
Evaluated by: <u>Matthew Winter</u>	Date: <u>8/23/12</u>	

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-075

AWC # <u>SP1-WB-001</u>	-				Status	Υ⊠	N□	UΠ
Equipment ID No. <u>1-EE-EG-1</u>	Equip. Class	17						
Equipment Description <u>EMERGENCY DI</u>	ESEL GENER	<u>ATOR</u>						
Location: Bldg. <u>SERVICE</u> Floor El. <u>2</u>	<u>7'</u> Roc	om, Area	EDG 1 RC	<u>ООМ</u>				
Manufacturer, Model, Etc. (optional but re	commended)	<u>GENER</u>	<u>AL MOTOI</u>	R CORP. I	MODEL	#20-0	545- <u>E</u>	4
Instructions for Completing Checklist								
	1, 0,1	a · ·		c	c			

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	YX NO UO N/AO
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Consistent with drawing 11448-FC-2VC</i>	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO

Page C-111 Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-075</u>

	• • • • • • · · · · · · · · · · · · · ·
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YX NI UN N/A
 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Conduit run on the east side of the engine in the overhead, supported using clips → this was identified in the USI A-46 SEWS 	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX NI UI
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N⊟ U⊟
<u>Comments (</u> Additional pages may be added as necessary)	
	Data: 9/22/12
Evaluated by: <u>David Germano</u>	_ Date: <u>8/22/12</u>

AWC # <u>SP1-WB-021</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-SW-PENG-1C</u> Equip. Class <u>17</u>	
Equipment Description <u>EMERGENCY SW PUMP DIESEL</u>	
Location: Bldg. <u>ESPH</u> Floor El. <u>20'</u> Room, Area	
Manufacturer, Model, Etc. (optional but recommended) DETROIT DIESEL AL	LISON
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space of the space is provided at the end of the space space.	an item of equipment on the the results of judgments and ag other comments.
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	YM N
2. Is the anchorage free of bent, broken, missing or loose hardware? CR 486253 – one of four southeast anchor nuts is loose (washer spins) on south foot.	Y□ N⊠ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
 4. Is the anchorage free of visible cracks in the concrete near the anchors? CR 486318 – base of concrete pedestal for 1-SW-PENG-1C has a crack/spall in the southeast corner. 6" long x 2" wide x ¼" deep. 	Y⊠ N⊟ U⊟ N/A⊟
 Is the anchorage configuration consistent 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 Drawing 11448-FC-9H/9M 	Y⊠ N⊡ U⊡ N/A⊡
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO

SWC # SP1-WD-SWEL-076

_

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N⊟ U⊟ N/A⊟
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: <u>Matthew Winter</u>	Date: <u>8/27/12</u>
Evaluated by: <u>Ellery Baker</u>	Date: <u>8/27/12</u>

Page C-114 Page 1 of 2

Seismic Walkdown Checklist (SWC)

AWC # SP1-WB-020	Status YX NT UT
Equipment ID No. 1-CC-PS-103	Equip. Class 18
Equipment Description CH PUMP CC PR	PESSURF SWITCH
Leasting Dile AUX Eleve El 2	
Location: Bidg. <u>AUX</u> Floor El. <u>2</u>	Room, Area $J/8.1$
Manufacturer, Model, Etc. (optional but re	commended) <u>BARKSDALE CONTROLS DIV., D2TM150SS</u>
Instructions for Completing Checklist This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	the results of the Seismic Walkdown of an item of equipment on the ving questions may be used to record the results of judgments and the end of this checklist for documenting other comments.
Anchorage	
1. Is the anchorage configuration veri of the 50% of SWEL items requirir	fication required (i.e., is the item one $Y \boxtimes N \square$ ng such verification)?
2. Is the anchorage free of bent, broke	en, missing or loose hardware? Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion t oxidation?	hat is more than mild surface $Y \boxtimes N \square U \square N/A \square$
4. Is the anchorage free of visible crae	cks in the concrete near the anchors? $Y \boxtimes N \square U \square N/A \square$
5. Is the anchorage configuration con (Note: This question only applies i which an anchorage configuration <i>Consistent with USI A-46 SEWS</i>	sistent with plant documentation? Y N U V N/A f the item is one of the 50% for verification is required.)
 Based on the above anchorage eva potentially adverse seismic conditi 	luations, is the anchorage free of $Y \boxtimes N \square U \square$ ons?

SWC # <u>SP1-WD-SWEL-077</u>

·	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YX NO UNAO
	·
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	YX NO UO N/AO
9. Do attached lines have adequate flexibility to avoid damage?	YX NO UO N/AO
of potentially adverse seismic interaction effects?	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could	YX NO UO
adversely affect the safety functions of the equipment?	
<u>Comments</u> (Additional pages may be added as necessary)	

Evaluated by: Ellery Baker Eller Both Date: 8/22/12	
Evaluated by: William Gallagher SR Illian M August Date: 8/22/12	

Surry	Power Station	NTTE 2.3 Seis	mic Walkdowr	n Summan	/ Report	Appendix C	P
Quili		1111 2.0 006		Cummun	ricpon	Appendix O	

Seismic Walkdown Checklist (SWC)

SWC #	SP1-WD-SWEL-078	

AWC # <u>SP1-WB-041</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-CN-LT-100</u> Equip. Class_18	
Equipment Description ECST LEVEL TRANSMITTER	
Location: Bldg. <u>YARD</u> Floor El. <u>27</u> ' Room, Area	
Manufacturer, Model, Etc. (optional but recommended) <u>ROSSMOUNT INC., 1</u>	152DP5N22PB
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record t findings. Additional space is provided at the end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y NX
2. Is the anchorage free of bent, broken, missing or loose hardware?	YX NI UI N/AI
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□

- 4. Is the anchorage 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 YX ND UD potentially adverse seismic conditions?

- Page C-116

SWC # <u>SP1-WD-SWEL-078</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, YX N UN/A and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan Hallion J.	Date:	8/21/12
Evaluated by: Kevin McGuire KMJ	Date:	8/21/12

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Report Appendix C Page C-118

Page 1 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-079</u>

AWC # <u>SP1-WB-035</u>		Status Y⊠ N□ U□
Equipment ID No. 1-CS-LT-100B	Equip. Class 18	
Equipment Description RWST LEVEL		
Location: Bldg VAPD Eloop El 22	7' Doom Area	
Location: Blug. <u>IARD</u> Floor EI. <u>27</u>	Koom, Area	
Manufacturer, Model, Etc. (optional but re	commended) <u>ROSEMOUNT INC., 1</u>	<u>152DP5A22PB</u>
Instructions for Completing Checklist This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	e results of the Seismic Walkdown of ving questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	fication required (i.e., is the item one g such verification)?	Y NX
2. Is the anchorage free of bent, broke	n, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion the oxidation?	hat is more than mild surface	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible crac	eks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration	sistent with plant documentation? The item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
Based on the above anchorage eval potentially adverse seismic condition	uations, is the anchorage free of ons?	

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-079

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y□ N□ U□ N/A⊠
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	
Other Adverse Conditions 11. Have you looked for and found no 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: Larry Cullivan	_ Date: <u>8/21/12</u>
Evaluated by: Kevin McGuire	_ Date: <u>8/21/12</u>

.

Surry Power Station	NTTF 2.3 Seismic Walkdown Summary Report	Appendix C	Page C-120 Page 1 of 2
			-

SWC # <u>SP1-WD-SWEL-080</u>

potentially adverse seismic conditions?

AWC # Sp1-WB-042 Status Y⊠ N□ U[
Equipment ID No. <u>1-RC-LT-1321</u> Equip. Class <u>18</u>	
Equipment Description <u>RVLIS B N-RANGE LEVEL</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>13</u> Room, Area <u>AUXILIARY</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
 Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)? 	
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□	
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?	
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y \boxtimes N \square U \square N/A \square	
 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 $Y \boxtimes N \square U \square$	

SWC # <u>SP1-WD-SWEL-080</u>

·	
<u>Interaction Effects</u>7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	YX NI UI N/AI
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX NO UO
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N⊡ U⊡
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: <u>William Gallagher, Sr.</u>	Date: <u>8/24/12</u>
Evaluated by: Ellery Baker	Date: 8/24/12

Surry Power Station	NTTF 2.3 Seismic Walkdown Summary Report	Appendix C	Page C-122
	···· -·· -······· -···················		g

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-084</u>

AVVC # <u>SP1-WB-020</u>		Status YX NU UU
Equipment ID No. <u>1-CC-RTD-109B</u>	Equip. Class 19	·
Equipment Description <u>RHR HX OUTLET</u>	<u>TEMP</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>2'</u>	Room, Area <u>K/7.3</u>	
Manufacturer, Model, Etc. (optional but rec	commended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ing questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verify of the 50% of SWEL items requiring	ication required (i.e., is the item one g such verification)?	Y NX
2. Is the anchorage free of bent, broken	n, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion th oxidation?	nat is more than mild surface	Y N UN N/A
4. Is the anchorage free of visible crac	ks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v	istent with plant documentation? the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evalue potentially adverse seismic condition	uations, is the anchorage free of ons?	Y⊠ N□ U□

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-084

Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	YX NI UI N/AI
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX ND UD
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO
<u>Comments (Additional pages may be added as necessary)</u>	
Evaluated by: Ellery Baker Eller	Date: <u>8/22/12</u>

Evaluated by: <u>William Gallagher, St. / Illun Alf Date</u>: <u>8/22/12</u>

SWC # <u>SP1-WD-SWEL-085</u>

AWC # <u>SP1-WB-042</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-CH-TIC-1107</u> Equip. Class <u>19</u>	
Equipment Description <u>BAST A TEMP</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>13</u> Room, Area <u>G/9</u>	
Manufacturer, Model, Etc. (optional but recommended) FOXBORO TEMP. IN	DICATOR
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	an item of equipment on the the results of judgments and ag other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YX N
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Consistent with USI A-46 SEWS</i>	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX NO UO

. Surry Power Station NTTF 2.3 Seismic Walkdown Summary Report	rt Appendix C Page C-125 Page 2 of 2
Seismic Walkdown Checklist (SWC)	
SWC # <u>SP1-WD-SWEL-085</u>	
nteraction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Ellery Baker Eller	_ Date: <u>8/24/12</u>
Evaluated by: <u>William Gallagher, Sr. W. Salf</u>	Date: <u>8/24/12</u>

SWC # SP1-WD-SWEL-086

~

AWC # SP1-WB-042	Status Y⊠ N⊟ UE
Equipment ID No. 1 CH TIC 1164	Equip Close 10
Equipment ID No. <u>1-CH-11C-1104</u>	Equip. Class_19
Equipment Description <u>BAST B TEMP</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>13</u>	3' Room, Area <u><i>G</i>/9</u>
Manufacturer, Model, Etc. (optional but red	commended) <u>FOXBORO TEMP. INDICATOR</u>
Instructions for Completing Checklist	
This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	he results of the Seismic Walkdown of an item of equipment on the wing questions may be used to record the results of judgments and he end of this checklist for documenting other comments.
Anchorage	
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	fication required (i.e., is the item one $Y \boxtimes N \square$ ng such verification)?
2. Is the anchorage free of bent, broke	en, missing or loose hardware? YX NI UN N/A
3. Is the anchorage free of corrosion the oxidation?	that is more than mild surface $Y \boxtimes N \square U \square N/A \square$
4. Is the anchorage free of visible crac	cks in the concrete near the anchors? $Y \boxtimes N \square U \square N/A \square$
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration of Consistent with USI A-46 SEWS Bolt spacing at 4 ½" is within ¼" a acceptable verification.	sistent with plant documentation? $Y \boxtimes N \square U \square N/A \square$ f the item is one of the 50% for verification is required.) of SEWS, which listed 4 ³ / ₄ ". This is

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

SWC # <u>SP1-WD-SWEL-086</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?	YM NO UO
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Ellery Baker Ally Man	_ Date: <u>8/24/12</u>

Evaluated by: <u>William Gallagher, Sr.</u> Date: <u>8/24/12</u>

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-08/</u>		
AWC # <u>SP1-WB-035</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-CS-RTD-100A</u>	Equip. Class_19	
Equipment Description <u>RWST TEMP</u>		
Location: Bldg. <u>YARD</u> Floor El. <u>27</u>	. Room, Area	
Manufacturer, Model, Etc. (optional but rec	ommended)	
Instructions for Completing Checklist This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ing questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
 Is the anchorage configuration verified of the 50% of SWEL items requiring 	ication required (i.e., is the item one g such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broker	n, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion th oxidation?	at is more than mild surface	Y N U N/A
4. Is the anchorage free of visible crac	ks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v	istent with plant documentation? the item is one of the 50% for rerification is required.)	
6. Based on the above anchorage evaluption potentially adverse seismic condition	uations, is the anchorage free of ns?	

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-087</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,	Y□ N□ U□ N/A⊠
and masonry block walls not likely to collapse onto the 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	YN NO UO
of potentially adverse seismic interaction effects?	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO
autorities and savery randons of the equipment.	·
<u>Comments</u> (Additional pages may be added as necessary)	
Mh. M	
Evaluated by: <u>Larry Cullivan</u>	_ Date: <u>8/21/12</u>
Evaluated by: Kevin McGuire	Date: 8/21/12

Surry Power Station	NTTF 2.3 Seismic Walkdown Summary Report	Appendix C	Page C-130
			Page 1 of 2

SWC # <u>SP1-WD-SWEL-092</u>

AWC # <u>SP1-WB-009</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-EP-PNL-ASP</u> Equip. Class_20	
Equipment Description <u>AUX SHUTDOWN PANEL</u>	
Location: Bldg. <u>SERVICE</u> Floor El. <u>9'-6''</u> Room, Area <u>ESGR</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	in an
This checklist shall be used to document the results of the Seismic Walkdown of a SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting	in item of equipment on the results of judgments and other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y NX
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	
5. Is the anchorage configuration consistent 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/AØ
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	

SWC # SP1-WD-SWEL-092

Interaction Effects

 7. Are soft targets free from impact by nearby equipment or structures? 1) An unsecured laptop was stored on an angle of a hinged drawer inside the panel to the west side. Discussed with Operations, who agreed to relocate the laptop off the angle and onto the flat surface of the drawer. 2) Similar to the Unit 2 Auxiliary Shutdown Panel, there was unsecured equipment stored inside the panel to the right (west). See SWC# SP2-WD-SWEL-027 for justification of stored equipment on the similar Unit 2 Auxiliary Shutdown Panel. 3) >2" clear from Unistrut frame for communications equipment to the east of the panel, acceptable. 4) >2" clear from 1-CM-PNL-DAS-1, acceptable 	Y⊠ N□ U□ N/A□
 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Fluorescent light overhead to North, secured to rod-hung fixture. In general, fluorescent lighting was addressed during USI A-46/ IPEEE and concluded not to be a seismic concern. Block on the east side of panel is reinforced. 	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Daniel J. Vasquez	Date: <u>8/28/12</u>
Evaluated by: David Germano David Germano	Date: 8/28/12

SWC # <u>SP1-WD-SWEL-093</u>		
AWC # <u>SP1-WB-045</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-CC-E-1A</u>	Equip. Class 21	
Equipment Description <u>CC HX</u>		
Location: Bldg. <u>TURB</u> Floor El. <u>9</u> '	Room, Area <u>CCHx Area</u>	
Manufacturer, Model, Etc. (optional but rec	commended)	
Instructions for Completing Checklist This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ing questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requiring	ication required (i.e., is the item one g such verification)?	Y⊠ N□
2. Is the anchorage free of bent, broken	n, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion th oxidation?	nat is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crac	ks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v Consistent with USI A-46 SEWS Drawing 11448-FS-2F/2S	istent with plant documentation? the item is one of the 50% for verification is required.)	Y⊠ N⊡ U⊡ N/A⊡
 Based on the above anchorage evaluation potentially adverse seismic condition 	uations, is the anchorage free of ons?	YM NO UO

SWC # <u>SP1-WD-SWEL-093</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?	YX NO UO N/AO
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX NI UI
Other Adverse Conditions	······································
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM ND UD
Comments (Additional pages may be added as necessary)	
1 A 00 A	
Evaluated by: <u>Tim Wattleworth</u> <u>Unrolly Steal</u>	_ Date: <u>8/21/12</u>
Evaluated by: Matthew Winter	Date: <i>8/21/12</i>
SWC # SP1-WD-SWEL-094

AWC # <u>SP1-WB-041</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-CN-TK-1</u> Equip. Class_21	
Equipment Description <u>ECST</u>	
Location: Bldg. <u>YARD</u> Floor El. <u>27</u> ' 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 SWEL. The space below each of the following questions may be used to record t findings. Additional space is provided at the end of this checklist for documenting the space of the space	an item of equipment on the the results of judgments and g other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y NX
2. Is the anchorage free of bent, broken, missing or loose hardware?	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
 Is the anchorage configuration consistent 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⊠
 Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Anchorage is encased in concrete. 	YX NO UO

SWC # SP1-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?	YX ND UD
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX ND UD
<u>Comments (Additional pages may be added as necessary)</u>	
Evaluated by: Larry Cullivan Floulling.	_ Date: <u>8/21/12</u>

SWC # <u>SP1-WD-SWEL-095</u>

AWC # <u>SP1-WB-035</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-CS-TK-2</u> Equip. Class <u>21</u>	
Equipment Description CAUSTIC STORAGE TANK	
Location: Bldg. <u>YARD</u> Floor El. <u>27'</u> Room, Area <u>YARD</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments
 Anchorage Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? 	YX N
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) EQE Calculation 250226-C-130	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX NO UO

Page	2	of	2
------	---	----	---

SWC # <u>SP1-WD-SWEL-095</u>

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? YX N UNA
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: <u>Larry Cullivan</u>	Allion n.	_ Date:	8/21/12
Evaluated by: <u>Kevin McGuire</u>	K-M:J-	_ Date:	8/21/12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-096</u>

AWC # <u>SP1-WB-021</u>

Status Y⊠ N□ U□

Equipment ID No. <u>1-SW-E-8</u> Equip. Class <u>21</u>

Equipment Description <u>EMERGENCY SW PUMP BRG OIL COOLER</u>

Location: Bldg. <u>ESPH</u> Floor El. <u>18</u>' Room, Area <u>EPSH</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y N UN N/AX
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y N U N/AX
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent 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?	YX NO UO

SWC # <u>SP1-WD-SWEL-096</u>

······································
Y⊠ N□ U□ N/A□
Y⊠ N□ U□ N/A□
Y⊠ N□ U□ N/A□
YM NO UO
YM NO UO
Date: <u>8/27/12</u>
Date: <u>8/27/12</u>
-

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-097

AWC # <u>SP1-WB-006</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-FW-E-9</u> Equip. Class <u>21</u>	
Equipment Description FW-P-2 OIL COOLER	
Location: Bldg. <u>MSVH</u> Floor El. <u>27'-6"</u> Room, Area <u>AFW Pump A</u>	<u>lrea</u>
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	an item of equipment on the the results of judgments and ng other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y NU UNAX
 Is the anchorage configuration consistent 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 # <u>SP1-WD-SWEL-097</u>

Interaction Effects

7. Are soft targets free from imp	bact by nearby equipment or structures?	YX ND UD N/AD
-----------------------------------	---	---------------

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX N UNANA and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage?

YX NO UO N/AO

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

Other Adverse Conditions

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

<u>**Comments**</u> (Additional pages may be added as necessary)

	_
dl n	
Evaluated by: Ellery Baker Phylo Date: 8/21/12	
Evaluated by: William Gallagher, Sr. William M Marth Parte: 8/21/12	
	-

Page C-142

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-098

AWC # <u>SP1-WB-001</u>

Status YX N U

Equipment ID No. <u>1-EE-TK-3</u> Equip. Class <u>21</u>

Equipment Description FUEL OIL DAY TANK

Location: Bldg. <u>SERVICE</u> Floor El. <u>27'</u> Room, Area <u>EDG 1 ROOM</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors	? Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent 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 US1 A-46 SEWS for 1-EE-TK-4 and 1-EE-TK-3 except inset ½" thick square plate is 6" versus 5" as shown. This difference is minor and inconsequential.	$Y \boxtimes N \square U \square N/A \square$
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO

SWC # <u>SP1-WD-SWEL-098</u>

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures? 1-ELT-LF-126 hold down strap misaligned → should be relocated to better hold down the light. CR 485564 submitted.	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N⊡ U⊡ N/A⊡
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
Other Adverse Conditions	· · ·
11. Have you looked for and found no 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: <u>Daniel J. Vasquez</u>	_ Date: <u>8/21/12</u>
Evaluated by: David Germano David Germano	_ Date: <u>8/21/12</u>

Status YX N U

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-099

AWC # <u>SP1-WB-001</u>

Equipment ID No. <u>1-EG-TK-2</u> Equip. Class <u>21</u>

Equipment Description EDG AIR COMP AIR RECIEVER

Location: Bldg. <u>SERVICE</u> Floor El. <u>27</u>' Room, Area <u>EDG 1 ROOM</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Upper support: flange of channel section slightly bent. No structural/seismic concern.	Y⊠ N⊡ U⊡ N/A⊡
 Is the anchorage free of corrosion that is more than mild surface oxidation? Very minor corrosion of anchor bolts at baseplate 	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N⊡ U⊡ N/A⊡
5. Is the anchorage configuration consistent 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?	YX ND UD

SWC # SP1-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?	YX NO UO N/AO
-Large overhead light supported off Unistrut that is rod hung from ceiling – no seismic concerns.	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free	YX NO UO
of potentially adverse seismic interaction effects?	· · ·
·	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO
Comments (Additional pages may be added as necessary)	. ·
Evaluated by: Daniel J. Vasquez	Date: <u>8/27/12</u>
$\mathcal{R} \cdot \mathcal{L}$	
Evaluated by: David Germano Lavel Elermano	Date: 8/27/12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-101</u>

,

AWC # SP2-WB-038		Status Y⊠ N□ U□
Equipment ID No. <u>1-FC-E-1B</u>	Equip. Class 21	
Equipment Description SFP COOLER		
Location: Bldg. <u>FUEL</u> Floor El. <u>6</u>	Room, Area SFP COOLEI	R AREA
Manufacturer, Model, Etc. (optional but re	commended)	
Instructions for Completing Checklist This checklist shall be used to document th	he results of the Seismic Walkdown of	an item of equipment on the
SWEL. The space below each of the follow findings. Additional space is provided at the	wing questions may be used to record the end of this checklist for documenting	he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requiring	fication required (i.e., is the item one ng such verification)?	Y⊠ N□
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion t oxidation?	hat is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cra	cks in the concrete near the anchors?	YND UD N/AD
5. Is the anchorage configuration con (Note: This question only applies i which an anchorage configuration Consistent with calc. 11448-CG-2. proper configuration of upper rest. MSDUR#12-601184 submitted.	sistent with plant documentation? f the item is one of the 50% for verification is required.) 1. Drawing updated needed to reflect rain. Det. 11 on 11448-FC-27F.	Y⊠ N□ U□ N/A□
 Based on the above anchorage eva potentially adverse seismic conditi 	luations, is the anchorage free of ions?	YM NO UO

.

	Page 2 of 2
Seismic Walkdown Checklist (SWC)	
SWC # <u>SP1-WD-SWEL-101</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?	YX ND UD
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO
Comments (Additional pages may be added as necessary)	
Evaluated by: <u>Matthew Winter</u> Matt D	_ Date: <u>8/29/2012</u>
Evaluated by: <u>Daniel J. Vasquez</u>	_ Date: <u>8/29/2012</u>

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Report Appendix C Page C-147

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-102

AWC # <u>SP2-WB-038</u>

Status Y⊠ N□ U□

Equipment ID No. <u>1-FC-P-1B</u> Equip. Class <u>5</u>

Equipment Description SFP COOLING PUMP

Location: Bldg. *FUEL* Floor El. <u>6'</u> Room, Area <u>SFP COOLER AREA</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	YX NO UO N/AO
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent 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-U6 SEWS, but not drawing 11448-FC-27E. Nut elevation is incorrect on drawing. (drawing will be updated to reflect as-built configuration) MSDUR# 12-601183 submitted.	Y⊠ N⊡ U⊡ N/A⊡
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX NI UI

Seismic Walkdown Checklist (SWC)			
SWC # <u>SP1-WD-SWEL-102</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?			
Other Adverse Conditions			
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO		
<u>Comments</u> (Additional pages may be added as necessary)	<u>.</u>		
Evaluated by: <u>Daniel J. Vasquez</u>	Date: <u>8/29/2012</u>		
Evaluated by: <u>Matthew Winter</u> Matt D.	_ Date: <u>8/29/2012</u>		

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Report Appendix C Page C-150

?

Page 1 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP1-WD-SWEL-103</u>

1

AWC # <u>SP2-WB-038</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-FC-40</u>	Equip. Class_0	Yenne
Equipment Description SFP COOLER INL	<u>ET ISOLATION</u>	
Location: Bldg. <u>FUEL</u> Floor El. <u>6</u>	Room, Area	
Manufacturer, Model, Etc. (optional but rec	commended)	
Instructions for Completing Checklist This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	e results of the Seismic Walkdown of ring questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	ication required (i.e., is the item one g such verification)?	Y NX
2. Is the anchorage free of bent, broke	n, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion the oxidation?	nat is more than mild surface	Y N UN/A
4. Is the anchorage free of visible crac	eks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration of	sistent with plant documentation? If the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
 Based on the above anchorage eval potentially adverse seismic condition 	uations, is the anchorage free of ons?	YX NO UO

Page	2	of	2
------	---	----	---

SWC # <u>SP1-WD-SWEL-103</u>

_

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YX NI UI N/AI
 Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Bent threaded rod supporting cable tray on west side of room – no seismic concern since bent <5° tolerance 	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX ND UD
Comments (Additional pages may be added as necessary)	
(F	
Evaluated by: <u>Matthew Winter</u>	Date: <u>8/29/2012</u>
Evaluated by: <u>Daniel J. Vasquez</u>	_ Date: <u>8/29/2012</u>

Seismic Walkdown Checklist (SWC)

SWC # SP1-WD-SWEL-104

-

AWC # SP2-WB-038		Status Y⊠ N□ U□
Equipment ID No. 1-FC-35	- Equip. Class 0	
Equipment Description SFP COOLER IN	LET ISOLATION PUMP 1B SUCTION	I ISOLATION
Location: Bldg. <i>FUEL</i> Floor El.	20' Room, Area	· · · · · · · · · · · · · · · · · · ·
Manufacturer, Model, Etc. (optional but re	ecommended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the space is provided at the space is provided at the space space is provided at the space space space.	he results of the Seismic Walkdown of wing questions may be used to record t he end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requiri:	ification required (i.e., is the item one ng such verification)?	Y NX
2. Is the anchorage free of bent, brok	en, missing or loose hardware?	Y NU UNAX
3. Is the anchorage free of corrosion oxidation?	that is more than mild surface	Y N U V/AX
4. Is the anchorage free of visible cra	icks in the concrete near the anchors?	Y N U N/A
5. Is the anchorage configuration con (Note: This question only applies i which an anchorage configuration	nsistent with plant documentation? if the item is one of the 50% for verification is required.)	Y N U N/A
 Based on the above anchorage eva potentially adverse seismic condit 	luations, is the anchorage free of ions?	YM NO UO

SWC # <u>SP1-WD-SWEL-104</u>

Interact	ion Eff	ects

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

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage? YX NI UN N/A
- 10. Based on the above seismic interaction evaluations, is equipment free Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: <u>Matthew Winter</u>	Matto W.	Date: <u>8/29/12</u>
Evaluated by: <u>Daniel J. Vasquez</u>	~	Date: <u>8/29/12</u>

Appendix D

Unit 2 Seismic Walkdown Checklists

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-001

AWC # <u>SP2-WB-001</u>

Status YX N U

Equipment ID No. 2-VS-MOD-201C Equip. Class 0

Equipment Description <u>CHARGING PUMP CUBICLE EXHAUST DAMPER</u>

Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>CP CUB</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent 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?	YX NO UO

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-001

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?	YX NO UO N/AO
---	---------------

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Ellery Baker	Ely M	Date: 8/23/12
Evaluated by: William Gallaghe	, self elliant -	When Date: 8/23/12
Frankalod of		

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-002

_

:

AWC # SP2-WB-002		Status Y⊠ N□ U□
Equipment ID No. 2-SW-REJ-201A	Equip. Class 0	
Equipment Description BC HX INLET H	EADER	
Location: Bldg. TURB Floor El.	9' Room, Area TURBINE	
Manufacturer, Model, Etc. (optional but :	recommended)	
Instructions for Completing Checklist		
This checklist shall be used to document SWEL. The space below each of the follo findings. Additional space is provided at	the results of the Seismic Walkdown of owing questions may be used to record t the end of this checklist for documentin	an item of equipment on the the results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration ve of the 50% of SWEL items requir	rification required (i.e., is the item one ing such verification)?	Y NX
2. Is the anchorage free of bent, bro	ken, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion oxidation?	that is more than mild surface	Y□ N□ U□ N/A⊠
Minor corrosion noted on all-thre	ead tension connections and bolts.	
4. Is the anchorage free of visible cr	racks in the concrete near the anchors?	Y□ N□ Ü□ N/A⊠
5. Is the anchorage configuration co (Note: This question only applies which an anchorage configuration	onsistent with plant documentation? s if the item is one of the 50% for n verification is required.)	Y□ N□ U□ N/A⊠
 Based on the above anchorage ev potentially adverse seismic condition 	valuations, is the anchorage free of tions?	Y⊠ N□ U□

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-002

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? $Y \boxtimes N \square U \square N/A \square$
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Reference: Drawing 11448-FC-2C

Expansion joint is encapsulated with spray shield (bolts for both are visible).

Evaluated by: <u>Matthew Winter</u>	Mato D.>	Date:	8/24/12
Evaluated by: <u>Tim Wattleworth</u>	Matt Was for T.W. per to	ukcon Date:	8/24/12

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-003

÷

AWC # SP2-WB-011	Status Y⊠ N□ U□
Equipment ID No. 1-CH-TK-1C	Equip. Class 21
Equipment Description CBAST	
Location: Bldg. Aux Floor El. 13	Room, Area BAST Area
Manufacturer, Model, Etc. (optional but red	commended)
Instructions for Completing Checklist	
This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	e results of the Seismic Walkdown of an item of equipment on the ving questions may be used to record the results of judgments and he end of this checklist for documenting other comments.
Anchorage	
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	fication required (i.e., is the item one $Y \boxtimes N$
2. Is the anchorage free of bent, broke	m, missing or loose hardware? Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion the oxidation?	hat is more than mild surface Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crac	cks in the concree near the anchors? $Y \boxtimes N \square U \square N/A \square$
5. Is the anchorage configuration cons (Note: This question only applies it which an anchorage configuration of <i>Consistent with USI A-46 SEWS</i>	sistent with plant documentation? Y⊠ N□ U□ N/A□ f the item is one of the 50% for verification is required.)
6. Based on the above anchorage eval potentially adverse seismic condition	luations, is the anchorage free of $Y \boxtimes N \square U \square$ ons?

Seismic Walkdown Checklist (SWC)

SWC # SP2-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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

$\cdot \cdot $	
Evaluated by: William Gallagher, Sr.	Date: <u>8/27/12</u>
Evaluated by: Ellery Baker	Date: 8/27/12
Evaluated by: <u>Ellery Baker</u>	Date: <u>8/27/12</u>

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-004

AWC # <u>SP1-WB-009</u>	Status Y⊠ N□ U□
Equipment ID No. 2-EP-BKR-25H9	Equip. Class_3
Equipment Description <u>4kV EMERGENCE</u>	<u>STUB BUS</u>
Location: Bldg. <u>ESGR</u> Floor El. <u>9'</u>	Room, Area
Manufacturer, Model, Etc. (optional but red	commended)
Instructions for Completing Checklist	
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of an item of equipment on the ving questions may be used to record the results of judgments and he end of this checklist for documenting other comments.

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ Ŭ□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors	? Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Consistent with Calculation CE-1254, Rev. 0</i>	Y⊠ N⊡ U⊡ N/A⊡
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX NO UO

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-004

Interaction Effects

 7. Are soft targets free from impact by nearby equipment or structures? 1) Adjacent cabinets bolted together. Connected to 2H1 Load Center per DC 93-033. 2) Approximately 1 ½" clear of cabinet to east, acceptable. 	Y⊠ N⊟ 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 overhead to north and south side. Fluorescent lights were evaluated during USI A-46/ IPEEE and concluded not to be a seismic 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□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Daniel J. Vasquez	_ Date: <u>8/28/12</u>
Evaluated by: David Germano David Llemmance	Date: 8/28/12

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-006

AMIC # SD2 W/D 004	
AWC # <u>SF2-WB-004</u>	
Equipment ID No. <u>2-FW-1-2</u>	Equip. Class_0
Equipment Description <u>TERRY TURBINE</u>	
Location: Bldg. <u>MSVH</u> Floor El. <u>27</u>	Room, Area <u>AFW Pump Area</u>
Manufacturer, Model, Etc. (optional but rec	commended)
Instructions for Completing Checklist	
This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	e results of the Seismic Walkdown of an item of equipment on the ring questions may be used to record the results of judgments and e end of this checklist for documenting other comments.
Anchorage	
1. Is the anchorage configuration verif of the 50% of SWEL items requirin Also with pump 2-FW-P-2 Skid	Section required (i.e., is the item one $Y \boxtimes N \square$ g such verification)?
2. Is the anchorage free of bent, broke	n, missing or loose hardware? Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion the oxidation?	hat is more than mild surface $Y \boxtimes N \square U \square N/A \square$
4. Is the anchorage free of visible crac	ks in the concrete near the anchors? $Y \boxtimes N \square U \square N/A \square$
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration <i>Reference: VTM 38-1096-00005</i> Drawing V-4 6HMTA8	sistent with plant documentation? Y N U V N/A f the item is one of the 50% for verification is required.) 6X4-A
 Based on the above anchorage eval potentially adverse seismic condition 	uations, is the anchorage free of $Y \boxtimes N \square U \square$ ons?

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-006

Interaction Effects

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

YX NO UO

YX NO UO N/AO

Other Adverse Conditions

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

<u>Comments</u> (Additional pages may be added as necessary)

	Ell in -	
Evaluated by: <u>Ellery Baker</u>	Mar	Date: <u>8/21/12</u>
Evaluated by: William Gallagher, S	Muluint Salle	Date: 8/21/12

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-008

AWC # <u>SP2-WB-004</u>		Status Y⊠ N□ U□
Equipment ID No. 2-MS-GOV-005	Equip. Class_0	
Equipment Description TERRY TURBINE	GOVERNOR VALVE	
Location: Bldg. <u>MSVH</u> Floor El. <u>27</u>	7' Room, Area <u>AFW PUMP AR</u>	EA
Manufacturer, Model, Etc. (optional but re	commended) Ingersoll Rand	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	ne results of the Seismic Walkdown of an wing questions may be used to record the ne end of this checklist for documenting o	item of equipment on the results of judgments and ther comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	fication required (i.e., is the item one Y ng such verification)?	
2. Is the anchorage free of bent, broke	en, missing or loose hardware? Y	⊡ N□ U□ N/A⊠
3. Is the anchorage free of corrosion to oxidation?	hat is more than mild surface Y	
4. Is the anchorage free of visible crac	cks in the concrete near the anchors? Y	□ N□ U□ N/A⊠
5. Is the anchorage configuration con (Note: This question only applies in which an anchorage configuration	sistent with plant documentation? Y f the item is one of the 50% for verification is required.)	″⊡ N⊡ U⊡ N/A⊠
 Based on the above anchorage eval potentially adverse seismic condition 	luations, is the anchorage free of Yong?	N N U

Page D-13

YX NO UO N/AO

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-008

Interaction Effects

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

Other Adverse Conditions

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

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: <u>Ellery Baker</u>	Eller March Date: 8/20/12
Evaluated by William Gallagher	Allehan Clk Date: 8/20/12
2, (diado 2 0), <u>, , , , , , , , , , , , , , , , , , </u>	

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-011

AWC # <u>SP2-WB-008</u>

Status Y⊠ N□ U□

Equipment ID No. 2-RP-BKR-52-BYB Equip. Class 2

Equipment Description <u>RX TRIP BREAKER BYPASS</u>

Location: Bldg. <u>SERVICE</u> Floor El. <u>45'</u> Room, Area <u>CABLE SPREADING ROOM</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2.	Is the anchorage free of bent, broken, missing or loose hardware? One ineffective anchor bolt 6" from West side and one good anchor bolt approximately 12" from West side \rightarrow by design, each bay is supposed to have two anchor bolts; therefore, the as-found configuration is judged to be acceptable.	Y⊠ N⊡ U⊡ N/A⊡
3.	Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4.	Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5.	Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for	Y□ N□ U□ N/A⊠

which an anchorage configuration verification is required.)

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-011

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? On the North side of the cabinet, the upper panel doors at the top were opened, and it was identified that all four bolts to the reinforcement framing were short by 1 to 2 threads. Based on the robust design of the upper reinforcement (S-89151-2-C-003) being short 1 to 2 threads at most is judged to be acceptable and the existing thread engagement is seismically acceptable to support the cabinet.	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? -Fluorescent lighting was evaluated during USI A-46/IPEEE and determined not to be a seismic concern.	YX NI UI N/AI
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YØ NO UO
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: <u>Daniel J. Vasquez</u>	Date: <u>8/22/12</u>
Evaluated by: David Germano David Germano	Date: <u>8/22/12</u>

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-012

÷

AWC # <u>SP1-WB-009</u>	Status Y⊠ N□ U□		
Equipment ID No. 2-EP-LCC-2H Equip. Class 2			
Equipment Description <u>480V EMERGENCY BUS</u>			
Location: Bldg. <u>SERVICE</u> Floor El. <u>9'-6"</u> Room, Area <u>ESGR</u>			
Manufacturer, Model, Etc. (optional but recommended)			
Instructions for Completing Checklist			
This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting	an item of equipment on the he results of judgments and g other comments.		
Anchorage			
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y⊠ N□		
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□		
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□		
4. Is the anchorage free of visible cracks in the concrete near the anchors?	YX NO UO N/AO		
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Consistent with USI A-46 SEWS</i>	Y⊠ N⊡ U⊡ N/A⊡		

6. Based on the above anchorage evaluations, is the anchorage free of Y⊠ N□ U□ potentially adverse seismic conditions?
Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-012

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? YX NO UO N/AO
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage?
- 10. Based on the above seismic interaction evaluations, is equipment free YX ND UD of potentially adverse seismic interaction effects?

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could YX NO UO adversely affect the safety functions of the equipment?

Comments (Additional pages may be added as necessary)

- Cabinets are bolted together per SEWS
- 2 cover plate blanks, 1 of 4 fasteners noted, CR 485665
- CR 485684 loose paint on hanger for PB-ESR-9 over bus

Evaluated by: <i>Tim Wattleworth</i>	Junoth Aleat	Date: <u>8/22/12</u>
Evaluated by: <u>Matthew Winter</u>	Moto W	Date: <u>8/22/12</u>

YX NO UO N/AO

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-013</u>

AWC # <u>SP1-WB-009</u>

Status Y⊠ N□ U□

Equipment ID No. <u>2-EP-LCC-2H1</u> Equip. Class <u>2</u>

Equipment Description <u>480V EMERGENCY BUS</u>

Location: Bldg. <u>SERVICE</u> Floor El. <u>9'-6"</u> Room, Area <u>ESGR</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may 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. Is the anchorage configuration verification required (i.e., is the item on	e Y⊠ N□
of the 50% of SWEL items requiring such verification)?	

2. Is the anchorage free of bent, broken, missing or loose hardware?	YM NLI ULI N/ALI
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Consistent with USI A-46 SEWS</i>	Y⊠ N⊡ U⊡ N/A⊡
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-013

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? YX NO UD N/AO
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, $Y \boxtimes N \square U \square N/A \square$ and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage? YX NI UI N/A
- 10. Based on the above seismic interaction evaluations, is equipment free YX NO UO of potentially adverse seismic interaction effects?

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could YX ND UD adversely affect the safety functions of the equipment?

Comments (Additional pages may be added as necessary)

Cabinets are bolted together.

Evaluated by: Tim Wattleworth	Sundy Aliat	Date: <u>8/22/12</u>
Evaluated by: <u>Matthew Winter</u>	Matto D	_ Date: <u>8/22/12</u>

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-016</u>

AWC # <u>SP2-WB-010</u>	Status	ΥØ	N□	U□
Equipment ID No. 2-CH-P-1A Equip. Class_5			· · · · · · · · · · · · · · · · · · ·	
Equipment Description <u>CHARGING PUMP</u>				
Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>J/9</u>				
Manufacturer, Model, Etc. (optional but recommended)				
Instructions for Completing Checklist This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may 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. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y⊠ N⊟			
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N⊟ U[א ב/.	A	

- 3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?
- 4. Is the anchorage free of visible cracks in the concrete near the anchors? YX N V 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
- 6. Based on the above anchorage evaluations, is the anchorage free of Y⊠ N□ U□ potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-016</u>

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? $Y \boxtimes N \square U \square N/A \square$
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX NI UNANA and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Evaluated by: <i>Ellery Baker</i>	Elly Bato TO	Date: 8/23/12
Evaluated by William Gallagher Sr	Markey	Date: 8/23/12
	Man -	

î

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-017

AWC # <u>SP2-WB-011</u>		Status Y⊠ N□ U□
Equipment ID No. <u>1-CH-P-2C</u>	Equip. Class 5	
Equipment Description BORIC ACID TRA	NSFER PUMP	
Location: Bldg. <u>AUX</u> Floor El. <u>13</u>	, Room, Area <u>AUXILIARY</u>	
Manufacturer, Model, Etc. (optional but rec	commended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ring questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requiring	ication required (i.e., is the item one g such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broken	n, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion th oxidation?	nat is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crac	ks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v 	istent with plant documentation? The item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
 Based on the above anchorage evaluation potentially adverse seismic condition 	uations, is the anchorage free of ons?	

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-017

Interaction Effects

7.	Are soft targets free from impact by nearby equipment or structures?	YX NI UI N/AI
8.	Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9.	Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10.	Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
<u>Other</u> 11.	Adverse Conditions Have you looked for and found no other seismic conditions that could adversaly affect the sofety functions of the acquiment?	Y⊠ N□ U□
	auvorony arrow the safety functions of the equipment?	

Minor concrete surface degradation on the pump pedestal was evident, but is not a structural or seismic concern.

Evaluated by: <i>Ellery Baker</i>	Elland Date: 8/	/24/12
Evaluated by: William Gallagher S	r Modell W Date: 8/	/24/12
Evaluated by: <u><i>in maan Gundgher</i></u> , bi	Date: Of	2-1112

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-018

AWC # <u>SP2-WB-004</u>		Status YX NL UL
Equipment ID No. <u>2-FW-P-2</u>	Equip. Class 5	
Equipment Description STEAM DRIVEN	AUX FEED PUMP	
Location: Bldg. <u>MSVH</u> Floor El. <u>27</u>	7'-6" Room, Area <u>AFW Pump Ar</u>	<u>rea</u>
Manufacturer, Model, Etc. (optional but re-	commended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	te results of the Seismic Walkdown of a ving questions may be used to record th the end of this checklist for documenting	an item of equipment on the ne results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verified of the 50% of SWEL items requiring	fication required (i.e., is the item one ng such verification)?	YX N
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion the oxidation?	hat is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracking, east of middle of purnot a defect	cks in the concrete near the anchors? amp pedestal is missing concrete –	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration con- (Note: This question only applies in which an anchorage configuration <i>Reference: VTM 38-I096-00005</i> Drawing V-4 6HMTA8	sistent with plant documentation? f the item is one of the 50% for verification is required.) 6X4-A	Y⊠ N⊟ U⊡ N/A⊟
6. Based on the above anchorage eval	luations, is the anchorage free of	YM NI UI

potentially adverse seismic conditions?

•

Seismic Walkdown Checklist (SWC)

SWC # SP2-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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage? YX N UNA
- 10. Based on the above seismic interaction evaluations, is equipment free Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Evaluated by: <u>Ellery Baker</u>	El M P	Date:	8/21/12
Evaluated by: <u>William Gallagher</u> ,	st illiant	July Date:	8/21/12
Evaluated by: <u>William Gallagher</u> ,	SM/ Manuel	Date:	8/21/12

Status YX N U

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-019

AWC # <u>SP2-WB-004</u>

Equipment ID No. 2-FW-P-3A Equip. Class 5

Equipment Description AUX FEED PUMP

Location: Bldg. MSVH Floor El. 27'-6" Room, Area AFW Pump Area

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

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

2	Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N⊡ U⊡ N/A⊡
3	Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4	. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5	. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Reference VTM</i> , dwg V-38 HMTA86X4	Y⊠ N⊡ U⊡ N/A⊡
6	. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-019</u>

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? $Y \boxtimes N \square U \square N/A \square$
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Noted open WO 38103082383 tag for the heat trace at the 3A pump. There is a broken anchor at the stanchion baseplate for the heat trace junction box. The ½" heat trace conduit at 3A and 3B is overspanned, but it essentially responds as-if rod hung due to the support of the final vertical run of conduit. No seismic concerns with any of these issues.

Evaluated by: Ellery Baker	Date: 8/21/2012
Evaluated by: William Gallagher, Sr.	Date: 8/21/2012

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-020</u>

AWC # <u>SP2-WB-041</u>

Status Y⊠ N□ U□

Equipment ID No. <u>2-CS-P-1A</u> Equip. Class <u>5</u>

Equipment Description <u>CONTAINMENT SPRAY PUMP</u>

Location: Bldg. <u>CSPH</u> Floor El. <u>27'</u> Room, Area <u>CSPH</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may 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.	Is the anchorage configuration verification required (i.e., is the item one	Y🛛 N	
	of the 50% of SWEL items requiring such verification)?		

2. Is the anchorage free of bent, broken, missing or loose hardware?	YM NU UU NAU
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Drawing 11548-FC-19C	Y⊠ N⊡ U⊡ N/A⊡
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX ND UD

Seismic Walkdown Checklist (SWC)

SWC # SP2-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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

.

Evaluated by: Larry Cullivan	Abullion J.	_ Date:	8/22/12
Evaluated by: <u>Kevin McGuire</u>	K-M.J-	_ Date:	8/22/12

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-021

AWC # <u>SP2-WB-013</u>

Status Y⊠ N□ U□

Equipment ID No. 2-FW-P-4A Equip. Class_5

Equipment Description <u>EMERGENCY CONDENSATE MAKEUP PUMP</u>

Location: Bldg. <u>CSPH</u> Floor El. <u>11'</u> 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.

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Calculation No. 250226-C-005 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?	YN NU

Seismic Walkdown Checklist (SWC)

SWC # SP2-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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Evaluated by: Larry Cullivan	Alphlion .	Date: <u>8/22/12</u>
Evaluated by: Kevin McGuire	KMM	Date: <u>8/22/12</u>

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-022</u>

AWC # <u>SP1-WB-018</u>

Status Y⊠ N□ U□

Equipment ID No. <u>1-CC-P-1C</u>

Equipment Description <u>CC PUMP</u>

Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>CC PUMP AREA</u>

Equip. Class_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.

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N⊡ U⊡ N/A⊡
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N⊡ U⊡ N/A⊡
5. Is the anchorage configuration consistent 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?	YX NO UO

YX NO UO N/AO

Seismic Walkdown Checklist (SWC)

SWC # SP2-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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage?
- 10. Based on the above seismic interaction evaluations, is equipment free Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Evaluated by: <i>Ellery Baker</i>	Elfa for 1 Date: 8/22/12
Evaluated by: William Gallagher, Si	Villan All Date: 8/22/12

YX NO UO

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-023

AWC # <u>SP2-WB-019</u>		Status Y⊠ N□ U□
Equipment ID No. 2-CC-P-2B	Equip. Class_6	
Equipment Description CHARGING PUM	<u>P CC PUMP</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>2</u> '	Room, Area <u>G/9.5</u>	
Manufacturer, Model, Etc. (optional but red	commended)	
Instructions for Completing Checklist		
This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	e results of the Seismic Walkdown of ving questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	fication required (i.e., is the item one g such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broke	n, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion the oxidation?	hat is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crac	eks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v	sistent with plant documentation? If the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠

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

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-023</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, YX NI UNANA and masonry block walls not likely to collapse onto the 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 $Y \boxtimes N \square U \square$ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

$1 \int $)
Evaluated by: William Gallagher, Sr.	Date: 8/27/12
Evaluated by: <u>Ellery Baker</u>	Date: <u>8/27/12</u>

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-024

AWC # <u>SP2-WB-014</u>

Status Y⊠ N□ U□

Equipment ID No. 2-SW-P-10A Equip. Class_6

Equipment Description <u>CHARGING PUMP SW PUMP</u>

Location: Bldg. <u>Service</u> Floor El. <u>9'</u> Room, Area <u>MER 4</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Consistent with USI A-46 SEWS and 11448-PSSK-1021A36.133</i>	Y⊠ N⊡ U⊡ N/A⊡

6. Based on the above anchorage evaluations, is the anchorage free of YX NI UI potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

nteraction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N⊡ U⊡ N/A⊡
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO
<u>Comments</u> (Additional pages may be added as necessary) Pump base has mild corrosion \rightarrow not a seismic concern.	
Evaluated by: Larry Cullivan Man Man J.	_ Date: <u>8/29/12</u>
Further David Commany Aquid House	Date: 8/20/12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-025</u>

AWC # <u>SP2-WB-015</u>		Status Y	N 🛛		υロ
Equipment ID No. 2-RS-P-2A	Equip. Class_6				
Equipment Description OUTSIDE RS PUL	MP				
Location: Bldg. <u>SFGD</u> Floor El. <u>12</u>	2' Room, Area				
Manufacturer, Model, Etc. (optional but re	commended)				
Instructions for Completing Checklist					
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	he results of the Seismic Walkdown of an item wing questions may be used to record the result he end of this checklist for documenting other	i of equip lts of judg comment	oment gment ts.	on t s an	he d
Anchorage					
1. Is the anchorage configuration veri	fication required (i.e., is the item one $Y \square Y$	NX			

۲.	is the attentionage configuration verification required (i.e., is the item one
	of the 50% of SWEL items requiring such verification)?

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 5. Is the anchorage configuration consistent 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□

YX NO UO N/AO

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-025</u>

Interaction Effects

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

None

Evaluated by: William Gallagher, Sr. Morel	Date: <u>8/21/2012</u>
Evaluated by: <u>Ellery Baker</u>	Date: <u>8/21/2012</u>

Seismic Walkdown Checklist (SWC)

. .

SWC # <u>SP2-WD-SWEL-026</u>		
AWC # <u>SP2-WB-015</u>		Status Y⊠ N□ U□
Equipment ID No. 2-SI-P-1A	Equip. Class 6	
Equipment Description SAFETY INJECTION	<u>ON PUMP</u>	
Location: Bldg. <u>SFGD</u> Floor El. <u>12</u>	.8' Room, Area	
Manufacturer, Model, Etc. (optional but rea	commended)	· · · · · · · · · · · · · · · · · · ·
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ving questions may be used to record the e end of this checklist for documenting	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	fication required (i.e., is the item one g such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broke	n, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion the oxidation?	hat is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crac	cks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration con- (Note: This question only applies in which an anchorage configuration	sistent with plant documentation? f the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
6. Based on the above anchorage eval potentially adverse seismic conditi	luations, is the anchorage free of ons?	YX NI UI

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-026

<u>Interaction Effects</u> 7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N⊟ U⊟ N/A⊟
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage? See Comments section below.	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
 Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? See Comments section below. 	YX ND UD

Comments (Additional pages may be added as necessary)

The SI piping to the seal tank through 2-SI-201 is attached to the Reactor Containment wall at one point and the Safeguards Building at all other building attachment supports. The piping transitions to $\frac{1}{2}$ diameter tubing between the $\frac{3}{4}$ piping and the pump. As a result there is adequate flexibility between the RC and the pump which is attached to the Safeguards Building. The piping on the RC and Safeguards Building is adequate to allow for the $\frac{1}{2}$ displacement between the two buildings at this

point.		
Evaluated by: William Gallagher, Sr.	UM Sach S	Date: <u>8/21/2012</u>
Evaluated by: Ellery Baker	Elly p	Date: 8/21/2012

Status Y⊠ N□ U□

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-027

AWC # <u>SP1-WB-009</u>

Equipment ID No. <u>2-EP-PNL-ASP</u> Equip. Class <u>20</u>

Equipment Description AUX SHUTDOWN PANEL

Location: Bldg. <u>SERVICE</u> Floor El. <u>9'-6"</u> Room, Area <u>ESGR</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may 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.	Is the anchorage configuration verification required (i.e., is the item one	Y N N
	of the 50% of SWEL items requiring such verification)?	

2. Is the anchorage free of bent, broken, missing or loose hardware?	YX NI UN N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent 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?	YX NI UI

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-027

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structure Unsecured equipment stored inside the attached panel to the Sou (wire, light bulbs, mouse). Discussed with Operations, who indicate that none of the equipment inside the panel was seismically sensi. Since the stored equipment is lightweight and enclosed inside the it is not likely to be a seismic interaction concern with the Auxilia Shutdown Panel equipment in the adjacent panel to the North.	res? Y⊠ N□ U□ N/A□ th ated tive. panel, ary
 8. Are overhead equipment, distribution systems, ceiling tiles and liand masonry block walls not likely to collapse onto the equipment 1) Cable tray A13 overhead; sufficiently clear 2) HVAC duct to North also sufficiently clear. Threaded row hanger on duct support (south side) near Northwest corresponder shorted about 1 to 2 threads (painted) → acceptable since all adjacent duct supports are adequate. 	aghting, Y⊠ N□ U□ N/A□ nt? d ner on ole
9. Do attached lines have adequate flexibility to avoid damage?	YX NO UO N/AO
10. Based on the above seismic interaction evaluations, is equipment of potentially adverse seismic interaction effects?	t free Y⊠ N□ U□
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that adversely affect the safety functions of the equipment?	could YX N U
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: <u>Daniel J. Vasquez</u>	Date: <u>8/28/12</u>
Evaluated by: David Germano David Dermano	Date: <u>8/28/12</u>

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-029

AWC # <u>SP2-WB-021</u>

Status Y⊠ N□ U□

Equipment ID No. 2-FW-HCV-255A Equip. Class 7

Equipment Description <u>FW/SG A FW BYPASS FLOW</u>

Location: Bldg. <u>SERV</u> Floor El. <u>47</u>' Room, Area <u>MER 2</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may 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.	Is the anchorage	configuration	verification	required (i.e	, is the item one	Y N	Z
	of the 50% of SV	WEL items rec	uiring such	verification)	?		

2. Is the anchorage free of bent, broken, missing or loose hardware?	YLI NLI ULI N/AXI
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yo no uo n/Aø
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent 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?	YM NO UO

 $Y \boxtimes N \square U \square N/A \square$

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-029

Interaction Effects

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

Other Adverse Conditions

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

Evaluated by: Larry Cullivan	Honliver J.	Date:	8/23/12
Evaluated by: <u>Kevin McGuire</u>	KMA	Date:	8/23/12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-030</u>

AWC # <u>SP2-WB-019</u>

Status Y⊠ N□ U□

Equipment ID No. 2-DA-TV-203A Equip. Class 7

Equipment Description <u>DA/HRSS WASTE TK PUMP DISCH CIV</u>

Location: Bldg. <u>AUX</u> Floor El. <u>2</u>' 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.

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	YLI NLI ULI N/AXI
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yo no uo n/aø
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent 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 # <u>SP2-WD-SWEL-030</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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

,	Eller R		
Evaluated by: <i>Ellery Baker</i>	LILL Las	Date: <u>8/23/12</u>	
Evaluated by: William Gallagher, Sr.	WMGaleth	Date: 8/23/12	
•			

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-031

AWC # SP2-WB-004

Status YX N U

Equip. Class_7 Equipment ID No. 2-MS-PCV-202A

Equipment Description <u>TERRY TURBINE PCV</u>

Room, Area AFW Pump Area Location: Bldg. MSVH Floor El. 27'

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may 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.	Is the anchorage configuration verification required (i.e., is the item one	Y🗆 N🛛
	of the 50% of SWEL items requiring such verification)?	

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y NU UN N/AX
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent 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 # SP2-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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Evaluated by: Ellery Baker	Elles Bort	Date: 8/21/12
Evaluation by. <u>Direct Durct</u>	11111 and	Duto. <u>0/21/12</u>
Evaluated by: <u>William Gallagher, S</u>	r MWORD J	Date: <u>8/21/12</u>

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-032</u>

AWC # <u>SP2-WB-042</u>

Status Y⊠ N□ U□

Equipment ID No. <u>2-LM-TV-200A</u> Equip. Class <u>7</u>

Equipment Description <u>LM/CTMT LEAKAGE MONITORING HDR TRIP VALVE</u>

Location: Bldg. <u>AUX</u> Floor El. <u>13</u>' 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.

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

2.	Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3.	Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N U U N/A
4.	Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N∏ U□ N/A□
5.	Is the anchorage configuration consistent 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□

YX NO UO N/AO

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-032

Interaction Effects

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

Other Adverse Conditions

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

Evaluated by: Ellery Baker	Elly M A (Date: 8/24/12
Evaluated by: William Gallagher. Sr.	Magnet	Date: 8/24/12

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-033

AWC # <u>SP2-WB-021</u>

Status Y⊠ N□ U□

Equipment ID No. <u>2-FW-HCV-255C</u> Equip. Class <u>7</u>

Equipment Description <u>FW/SG C FW BYPASS FLOW</u>

Location: Bldg. <u>SERVICE</u> Floor El. <u>47</u> Room, Area <u>MER 2</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may 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. Is the anchorage configuration verification required (i.e., is the item one	Y□ N⊠
of the 50% of SWEL items requiring such verification)?	

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y N U N/AX
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent 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?	YX NI UI
Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-033</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? YX NO UO N/AO

10.	Based on the above seismic interaction evaluations, is equipment free	YX ND UD
	of potentially adverse seismic interaction effects?	

Other Adverse Conditions

1. Have you looked for and found no other seismic conditions that could	YX ND UD
adversely affect the safety functions of the equipment?	

Comments (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan	Alallion J.	Date: <u>8/23/12</u>
Evaluated by: <u>Kevin McGuire</u>	Km:5	Date: <u>8/23/12</u>

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-034

AWC # <u>SP2-WB-004</u>

Status Y⊠ N□ U□

Equipment ID No. 2-MS-TV-220 Equip. Class 7

Equipment Description <u>TERRY TURBINE STEAM ISOLATION</u>

Location: Bldg. <u>MSVH</u> Floor El. <u>27'</u> Room, Area <u>AFW Pump Area</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may 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.	Is the anchorage configuration verification required (i.e., is the item one	Y∏ N⊠
	of the 50% of SWEL items requiring such verification)?	

2. Is the anchorage free of bent, broken, missing or loose hardware?	Yo no uo n/aø
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent 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 UN N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-034

Interaction Effects

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

YN ND UD

YX NO UO N/AO

Other Adverse Conditions

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

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: Ellerv Baker	Ellus B	Date:	8/21/12	
Evoluated by: William Gallacher St	11 Karely	- Date:	<u> </u>	
Evaluated by. <u>milliam Guiligher, Sr. (</u>	WW Suffe	_ Date.	0/21/12	

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-035</u>

AWC # <u>SP2-WB-042</u>

Status Y⊠ N□ U□

Equipment ID No. <u>2-LM-TV-200C</u> Equip. Class <u>7</u>

Equipment Description <u>LM / CTMT LEAKAGE MONITORING HDR TRIP VALVE</u>

Location: Bldg. <u>AUX</u> Floor El. <u>13</u>' 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.

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent 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□

	Page 2 of 2
Seismic Walkdown Checklist (SWC)	
SWC # <u>SP2-WD-SWEL-035</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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage? YX N UN/A
- 10. Based on the above seismic interaction evaluations, is equipment free YN NO UO of potentially adverse seismic interaction effects?

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could YX ND UD adversely affect the safety functions of the equipment?

Comments (Additional pages may be added as necessary)

Evaluated by: <i>Ellery Baker</i>	TElm hr 10	Date: 8/24/12
Evaluated by: William Gallagher Sr	MAGENY	Date: 8/24/12
Evaluated by: <u>within Sundator, St.</u>	Vo v a conf	

1

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-036</u>

AWC # <u>SP2-WB-019</u>

Status Y⊠ N□ U□

Equipment ID No. <u>2-CV-TV-250A</u> Equip. Class 7

Equipment Description CONTAINMENT VACUUM PUMP 1B SUCTION

Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>AUXILIARY</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may 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. Is the anchorage configuration verification required (i.e., is the item one	Y□ N⊠
of the 50% of SWEL items requiring such verification)?	

2. Is the anchorage free of bent, broken, missing or loose hardware?	YLI NLI ULI N/AXI
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y_ n_ u_ n/AØ
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent 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 UNAX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO

.

ł

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-036</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?	YM NO UO
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: <u>Ellery Baker</u>	_ Date: <u>8/23/12</u>
Evaluated by: <u>William Gallagher, Sr.</u>	_ Date: <u>8/23/12</u>

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-037

AWC # <u>SP2-WB-020</u>

Status Y⊠ N□ U□

Equipment ID No. <u>2-MS-TV-201A</u> Equip. Class <u>7</u>

Equipment Description MS TRIP VALVE

Location: Bldg. <u>MSVH</u> Floor El. <u>40'</u> Room, Area <u>GA/5.6</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y NI UN N/AM
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y NU UNAX
5. Is the anchorage configuration consistent 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□

Page	D-61
------	------

	Page 2 of 2
Seismic Walkdown Checklist (SWC)	
SWC # <u>SP2-WD-SWEL-037</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?	YM NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NI UI
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Larry Cullivan Albullivan A.	_ Date: <u>8/23/12</u>
Evaluated by: <u>Kevin McGuire</u> KM'A	_ Date: <u>8/23/12</u>

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-038</u>

AWC # SP2-WB-019

Status Y⊠ N□ U□

Equipment ID No. 2-CC-TV-209B Equip. Class 7

Equipment Description <u>RHR OUTLET TRIP VALVE</u>

Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>J/10.7</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may 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.	Is the anchorage configuration verification required (i.e., is the item one	Y□ N⊠
	of the 50% of SWEL items requiring such verification)?	

2. Is the anchorage free of bent, broken, missing or loose hardware?	YLI ND UD N/AM
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ Ŭ□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the ancho	ors? Y N U N/A
 Is the anchorage configuration consistent 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?	

Seismic Walkdown Checklist (SWC)

SWC # SP2-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?	YX NO UO		

Comments (Additional pages may be added as necessary)

Evaluated by: William Gallagher, Sr.	Mlbach	Date: <u>8/23/12</u>
Evaluated by: <u>Ellery Baker</u>	Elly M	_ Date: <u>8/23/12</u>

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-039

AWC # <u>SP2-WB-021</u>

Status Y⊠ N□ U□

Equipment ID No. 2-FW-FCV-2478 Equip. Class 7

Equipment Description MAIN FEED REG VALVE

Location: Bldg. <u>SERVICE</u> Floor El. <u>42'</u> Room, Area <u>MER 2</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may 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.	Is the anchorage configuration verification required (i.e., is the item one	Y∐ N⊠	
	of the 50% of SWEL items requiring such verification)?		

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y N U N/A 🛛
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yo no uo n/a⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Yon no uo n/Aø
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	Yo no uo n/a
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO

Seismic Walkdown Checklist (SWC)

SWC # SP2-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?	YX NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NI UI

<u>**Comments**</u> (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan	Allion D.	Date: <u>8/23/12</u>	
Evaluated by: Kevin McGuire	KMS	Date: <u>8/23/12</u>	

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-043</u>

AWC # <u>SP2-WB-010</u>		Status Y🛛 N🗖 U
Equipment ID No. 2-CH-MOV-2267A	Equip. Class_8	
Equipment Description CHPUMP INLET	<u>ISOLATION</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>2</u> '	Room, Area <u>CHPUMP C</u>	<u>UBICLE A</u>
Manufacturer, Model, Etc. (optional but rec	commended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ring questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	ication required (i.e., is the item one g such verification)?	Y NX
2. Is the anchorage free of bent, broke	n, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion th oxidation?	hat is more than mild surface	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible crac	eks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v	sistent with plant documentation? f the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
6. Based on the above anchorage eval	uations, is the anchorage free of	YX NI UI

Conduit for TI at pump west bearing housing in contact with MOV power cables, TI conduit clamps loose. CR 486152 submitted.

potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

SWC # SP2-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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: <i>Ellery Baker</i>	Elapo	Date: <u>8/23/12</u>
Evaluated by: William Gallagher, Sr.	WM Fall	-Date: 8/23/12

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-044

AWC #	SP2-WB-013
-------	------------

Status Y⊠ N□ U□

Equipment ID No. 2-CS-MOV-201A Equip. Class_8_

Equipment Description <u>CS PUMP DSCH</u>

Location: Bldg. <u>CSPH</u> Floor El. <u>11'</u> Room, Area

Manufacturer, Model, Etc. (optional but recommended)

£1

Instructions for Completing Checklist

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may 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. . . 1

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yo no uo n/aø
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)	YONO UO N/AX
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO

YX NO UO N/AO

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-044</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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage?
- 10. Based on the above seismic interaction evaluations, is equipment free Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan	Allian A.	_ Date:	8/22/12
Evaluated by: <u>Kevin McGuire</u>	K-MIJ-	_ Date:	8/22/12

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-045

AWC # <u>SP2-WB-013</u>

Status Y⊠ N□ U□

Equipment ID No. <u>2-CS-MOV-202A</u> Equip. Class <u>8</u>

Equipment Description <u>CHEMICAL ADDITION TANK ISOLATION</u>

Location: Bldg. <u>CSPH</u> Floor El. <u>11'</u> 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.

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	YLI NLI ULI N/AMI
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ Ŭ□ N/A⊠
5. Is the anchorage configuration consistent 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?	YX NO UO

Seismic Walkdown Checklist (SWC)

SWC #, SP2-WD-SWEL-045

Interaction Effects

7. A	tre soft targets free	e from impact by	y nearby	equipment or structures?	Y🛛 I	N□	υ🗖	N/A□
------	-----------------------	------------------	----------	--------------------------	------	----	----	------

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

)

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

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan	Honlion J.	Date:	8/22/12
Evaluated by: <u>Kevin McGuire</u>	KMA	Date:	8/22/12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-046</u>

AWC # <u>SP2-WB-024</u>		Status	Y⊠	N□	U
Equipment ID No. 2-CW-MOV-200A	Equip. Class 8				
Equipment Description CONDENSER OUT	<u>TLET</u>				
Location: Bldg. <u>TURB</u> Floor El. <u>9'</u>	Room, Area <u>CONDENSER AREA</u>	<u>4</u>			
Manufacturer, Model, Etc. (optional but rec	commended)	<u></u>			
Instructions for Completing Checklist					

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

Anchorage

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

2.	Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U□ N/A⊠
3.	Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4.	Is the anchorage free of visible cracks in the concrete near the 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.)	

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

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-046

_

	······································
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structure	es? Y⊠ N□ U□ N/A□
8 Are overhead equipment distribution systems, ceiling tiles and lip	phting YXI NEI UEI N/AEI
and masonry block walls not likely to collapse onto the equipmen	t?
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment	free Y⊠ N□ U□
of potentially adverse seismic interaction effects?	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that a adversely affect the safety functions of the equipment?	could YX NI UI
Comments (Additional pages may be added as necessary)	
Drawing 11448-FC-2K	
CR 486177 – groundwater for CW leak from concrete wall appro onto anchored steel pipe. Corrosion prod rust colored, salt pr deteriorate heads of pipe collar wall anchors.	oximately 3' above top pipe drains recipitate on wall. Beginning to

Evaluated by: <u><i>Tim Wattleworth</i></u>	Matto W for T.W. per telec	Date:	8/24/12
Evaluated by: <u>Matthew Winter</u>	Metto D.	_ Date:	8/24/12

Surry Power Station	NTTF 2.3 Seismic Walkdown Summary Report	Appendix D	Page D-74
	2 1	• •	0

÷

Seismic Walkdown Checklist (SWC)

SWC #	SP2-WD-SWEL-047

potentially adverse seismic conditions?

AWC # SP2-WB-024		Status YX NU UU
Equipment ID No. 2-CW-MOV-206A	- Equip. Class 8	
Equipment Description CONDENSER IN	LET	
Location: Bldg TUBR Elocr El ($P_{\rm res}$	PADEA
Manufacture Madel Etc. (actional last	Kooni, Arda <u>CONDENSER</u>	<u>(AREA</u>
Manufacturer, Model, Etc. (optional but re		······································
Instructions for Completing Checklist This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	he results of the Seismic Walkdown of wing questions may be used to record t he end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requiring	ification required (i.e., is the item one ng such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion to oxidation? Noted mild corrosion on all-thread	that is more than mild surface d tension bolts (approximately 50%).	Y
4. Is the anchorage free of visible cra	cks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration con (Note: This question only applies i which an anchorage configuration	isistent with plant documentation? if the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
6. Based on the above anchorage eva	luations, is the anchorage free of	YM NI UI

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-047

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YX NI UI N/AI
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N⊡ U⊡ N/A⊡
9. Do attached lines have adequate flexibility to avoid damage?	YX NI UI N/AI
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary) Drawing 11548-FC-2F	
Evaluated by: Tim Wattleworth Junaty Alvato	Date: <u>8/23/12</u>
Evaluated by: Matthew Winter	Date: 8/23/12

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-048

AWC # SP2-WB-024		Status Y⊠ N□ U□
Equipment ID No. 2-CW-MOV-206C	Equip. Class 8	
Equipment Description CONDENSER INT	FT	
Equipment Description <u>CONDENSER INE</u>		· · · -
Location: Bldg. <u>TURB</u> Floor El. <u>9'</u>	Room, Area <u>CONDENSEI</u>	<u>R AREA</u>
Manufacturer, Model, Etc. (optional but rec	commended)	
Instructions for Completing Checklist		
This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	e results of the Seismic Walkdown of ring questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	ication required (i.e., is the item one g such verification)?	Y NX
2. Is the anchorage free of bent, broke	n, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion th oxidation?	nat is more than mild surface	Y□ N□ U□ N/A⊠
Note: minor surface corrosion on to	ension bolted connection.	
4. Is the anchorage free of visible crac	ks in the concrete near the anchors?	Y NI UN N/AX
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v	sistent with plant documentation? The item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
 Based on the above anchorage eval potentially adverse seismic condition 	uations, is the anchorage free of ons?	YX NO UO

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-048</u>

Interaction Effects

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

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Drawing 11548-FC-2F

Evaluated by: Tim Wattleworth	Junoth Sturt	Date: 8/23/12
Evaluated by: Matthew Winter	Mato W>	Date: 8/23/12

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-050		
AWC # <u>SP2-WB-002</u>	. ·	Status Y⊠ N□ U□
Equipment ID No. 2-SW-MOV-201A	Equip. Class <u>8</u>	<u>_</u>
Equipment Description BC HX ISOLATIC	<u>DN</u>	
Location: Bldg. <u>TURB</u> Floor El. <u>9</u>	Room, Area Valve Pit	
Manufacturer, Model, Etc. (optional but re	commended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the space space is provided at the space	ne results of the Seismic Walkdown of wing questions may be used to record to ne end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requiring	fication required (i.e., is the item one ag such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion a oxidation?	that is more than mild surface	Y□ N□ U□ N/A⊠
note. milit surface corrosion on al	i-the call tension connection nais.	
4. Is the anchorage free of visible cra	cks in the concrete near the anchors?	Y N UNAX
5. Is the anchorage configuration con (Note: This question only applies i which an anchorage configuration	sistent with plant documentation? f the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
Based on the above anchorage eva potentially adverse seismic condit.	luations, is the anchorage free of ions?	YM NO UO

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-050

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? YX	N	
--	---	--

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, $Y \boxtimes N \square U \square N/A \square$ and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage?
- 10. Based on the above seismic interaction evaluations, is equipment free YX N UU of potentially adverse seismic interaction effects?

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could YX NO UO adversely affect the safety functions of the equipment?

Comments (Additional pages may be added as necessary)

Reference: Drawing 11448-FC-2C SEWS

Evaluated by: <u><i>Tim Wattleworth</i></u>	Junch Shab	Date: <u>8/23/12</u>
Evaluated by: <u>Matthew Winter</u>	Matt D	Date: <u>8/23/12</u>

Y⊠ N□ U□ N/A□

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-053</u>

potentially adverse seismic conditions?

AWC # <u>SP2-WB-010</u> Status Y⊠ N□ U□
Equipment ID No. 2-CH-MOV-2275A Equip. Class 8
Equipment Description CH / CHARGING PUMP RECIRC
Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> 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 Y□ N⊠ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y□ N□ U□ N/A⊠
 Is the anchorage free of corrosion that is more than mild surface Y□ N□ U□ N/A⊠ oxidation?
4. Is the anchorage free of visible cracks in the concrete near the anchors? $Y \square N \square U \square N/A \boxtimes$
 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 $Y \boxtimes N \square U \square$

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-053

	THINK	D-+- 9/32/12
Evaluated by: <u>Ellery Baker</u>	KAN 2	_ Date: <u>8/23/12</u>
Evaluated by: William Gallagher, Sr.	11 Galt	Date: 8/23/12
		····

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-054

AWC # <u>SP2-WB-010</u>	Status Y⊠ N□ U□
Equipment ID No. 2-CH-MOV-2286A Equip. Class 8	
Equipment Description CH/CHARGING PUMP OUTLET	
Location: Bldg. <u>AUX</u> Floor El. <u>2</u> ' 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 SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	an item of equipment on the the results of judgments and ag other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y_ N_ U_ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
 Is the anchorage configuration consistent 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?	YM NO UO

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-054

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?	Y⊠N⊡l	
---	-------	--

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX NI UI N/AI and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: <u>Ellery Baker</u>	KIMMAN	Date: 8/23/12	
•	CIII/ AN		
Evaluated by: William Gallagher	Intany	Date: <u>8/23/12</u>	
	\mathbf{v}		

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-055

potentially adverse seismic conditions?

,

AWC # SP2-WB-019		Status VM NET LIET
	Equip Class 9	
Equipment ID No. $2-CH-MOV-2289A$	Equip. Class_8	
Equipment Description <u>CH/CHARGING</u>	<u>STOP VALVE</u>	
Location: Bldg. <u>AUX</u> Floor El	<u>2</u> ' Room, Area	
Manufacturer, Model, Etc. (optional but re	commended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the space is provided at the space is provided at the space space is provided at the space spa	he results of the Seismic Walkdown of wing questions may be used to record t he end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requiring	fication required (i.e., is the item one ng such verification)?	Y II N
2. Is the anchorage free of bent, brok	en, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion oxidation?	that is more than mild surface	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cra	cks in the concrete near the anchors?	
5. Is the anchorage configuration con (Note: This question only applies) which an anchorage configuration	isistent with plant documentation? if the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
6. Based on the above anchorage eva	luations, is the anchorage free of	YM NO UO

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-055

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
1	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
and mason y block wants not meery to complet onto the 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?	YX NO UO
Other Adverse Conditions	<u> </u>
11. Have you looked for and found no other seismic conditions that could	
adversely affect the safety functions of the equipment?	
Comments (Additional pages may be added as necessary)	

	11	
Evaluated by: Ellery Baker	Elly 1	_ Date: <u>8/23/12</u>
	1 Landa	
Evaluated by: William Gallagher, Sr.	1 Ball	Date: <u>8/23/12</u>

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-056</u>

AWC # <u>SP2-WB-019</u>

Status Y⊠ N□ U□

Equipment ID No. 2-CH-MOV-2289B Equip. Class 8

Equipment Description <u>CH/CHARGING STOP VALVE</u>

Location: Bldg. <u>AUX</u> Floor El. <u>2</u>' 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.

2. Is the anchorage free of bent, broken, miss	ing or loose hardware?	Y N	U□ N/A⊠
3. Is the anchorage free of corrosion that is n oxidation?	nore than mild surface	Y N	Ŭ□ N/A⊠
4. Is the anchorage free of visible cracks in t	he concrete near the anchors?	Y N	U□ N/A⊠
5. Is the anchorage configuration consistent (Note: This question only applies if the ite which an anchorage configuration verifica	with plant documentation? m is one of the 50% for tion is required.)	Y II N	U N/AX
6. Based on the above anchorage evaluation potentially adverse seismic conditions?	s, is the anchorage free of	Y⊠ N□	U□

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

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-056</u>

Interaction Effects

7. Are solit targets free from impact by hearby equipment or structures? YX N U	└□ N/A	1	N	Y⊠	or structures?	equipment	y nearby	impact b	from:	s free	Are soft targets	7.
---	--------	---	---	----	----------------	-----------	----------	----------	-------	--------	------------------	----

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment?
 JB support for MOV power loose at floor, submitted CR 485980.

Comments (Additional pages may be added as necessary)

Evaluated by: William Gallagher, Sr.	Date: 8/23/12
Evaluated by: Ellery Baker Flh M	Date: 8/23/12

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-060

AWC # <u>SP2-WB-004</u>

Status Y⊠ N□ U□

Equipment ID No. <u>1-FW-MOV-160A</u> Equip. Class <u>8</u>

Equipment Description AFW CROSS-CONNECT

Location: Bldg. <u>MSVH</u> Floor El. <u>27'</u> Room, Area <u>AFW Pump Area</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may 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.	Is the anchorage configuration verification required (i.e., is the item one	Y🗆 N🛛
	of the 50% of SWEL items requiring such verification)?	

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y N U N/A 🛛
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent 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?	YM NO UO
SWC # <u>SP2-WD-SWEL-060</u>

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?	YX NI UI N/AI
---	---------------

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

	=	
Evaluated by: <u>William Gallagher, Sr.</u>	Mach S-	Date: 8/27/12
Evaluated by: Ellery Baker	Elly non	Date: 8/27/12

:

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-061

AWC # SP2-WB-013

Status Y⊠ N□ U□

Equipment ID No. 2-SW-MOV-205A Equip. Class 8

Equipment Description <u>RS HX ISOLATION</u>

Location: Bldg. <u>CSPH</u> Floor El. <u>11'</u> Room, Area <u>SAFEGUARDS</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item	none Y N N
of the 50% of SWEL items requiring such verification)?	

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y N U N/AØ
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors	s? Y□ N□ U□ N/A⊠
 Is the anchorage configuration consistent 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?	YM NO UO

Seismic Walkdown Checklist (SWC)

SWC # SP2-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?	YM NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO

Comments (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan Hallwar,	Date:	8/24/12
Evaluated by: Kevin McGuire KM'A	Date:	8/24/12

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-062

_

AWC # SP2-WB-028		Status YM NFI UFI
Equipment ID No. 2-CS_MR_1B	Fauin Class 11	
Equipment Description <u>RWST REFRIGER</u>	ATION UNIT	
Location: Bldg. <u>YARD</u> Floor El. <u>27</u>	<u>'</u> Room, Area	
Manufacturer, Model, Etc. (optional but rec	commended)	
Instructions for Completing Checklist This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	e results of the Seismic Walkdown of ring questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	ication required (i.e., is the item one g such verification)?	Y NX
2. Is the anchorage free of bent, broke	n, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion the oxidation?	nat is more than mild surface	Y⊠ N□ U□ N/A□
 Is the anchorage free of visible crack Auxiliary Building at Southeast – p Calculation No. 250226 verifies no minimum shear load. Anchor bolts document concrete condition. 	cks in the concrete near the anchors? ier has spalled concrete uplift on Auxiliary Building, acceptable. CR 485907 submitted to	Y□ N⊠ U□ N/A□
5. Is the anchorage configuration cons (Note: This question only applies it which an anchorage configuration	sistent with plant documentation? f the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
Based on the above anchorage eval potentially adverse seismic condition	uations, is the anchorage free of ons?	Y⊠ N□ U□

1

SWC # <u>SP2-WD-SWEL-062</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?	YM NO UO
Other Adverse Conditions	
11. Have you looked for and found no 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: Larry Cullivan Alunio D'	_ Date: <u>8/21/12</u>
Evaluated by: <u>Kevin McGuire</u> K-MiA-	Date: <u>8/21/12</u>

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-063

AWC # <u>SP2-WB-029</u>	Status Y🛛 N🗖 U
Equipment ID No. 2-EG-C-2 Equip. Class 12	
Equipment Description EDG AIR COMPRESSOR No. 2	
Location: Bldg. SERVICE Floor El. 27' Room, Area EDG 2 ROO	ЭМ
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenti	of an item of equipment on the the results of judgments and ing other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Yon uo n/ao
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent 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 11448-1.30-104A	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM ND UD

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-063</u>

Y⊠ N□ U□ N/A□
Y⊠ N□ U□ N/A□
Y⊠ N□ U□ N/A□
YM NO UO
YN NO UO
Date: <u>8/24/12</u>
Date: <u>8/24/12</u>

Seismic Walkdown Checklist (SWC)

SWC #	SP2-WD-SWEL-064

AWC # <u>SP2-WB-030</u>		Status Y🛛 N🗖 U
Equipment ID No. <u>2-IA-C-1</u>	Equip. Class_12	
Equipment Description INSTRUMENT AIR	<u>COMPRESSOR</u>	
Location: Bldg. <u>TURBINE</u> Floor El. <u>9'</u>	Room, Area IA COMPRES	SSOR AREA
Manufacturer, Model, Etc. (optional but rec	ommended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ing questions may be used to record t e end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	ication required (i.e., is the item one g such verification)?	Y⊠N□
2. Is the anchorage free of bent, broker	n, missing or loose hardware?	
3. Is the anchorage free of corrosion th oxidation?	nat is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crac	ks in the concrete near the anchors?	Y⊠ N⊡ U□ N/A□
 Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration of Drawing 11548-FC-6A 	istent with plant documentation? the item is one of the 50% for verification is required.)	Y⊠ N□ U□ N/A□
Based on the above anchorage eval potentially adverse seismic condition	uations, is the anchorage free of ons?	YX NO UO

.

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-064</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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage? YX N V N N/A
- 10. Based on the above seismic interaction evaluations, is equipment free Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: <u>Tim Wattleworth</u>	Matt Wind For T.W. per telecor	Date:	8/24/12
Evaluated by: Matthew Winter	Mato W~	Date:	8/24/12

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-068

AWC # SP1-WB-009		Status Y⊠ N□ U□
Equipment ID No. 2-EP-LP-2S12	Equip. Class 14	
Equipment Description MCR LIGHTING	CABINET	
Location: Bldg. SERVICE Floor El. 9	' Room, Area ESGR	
Manufacturer Model, Etc. (ontional but re	commended)	
Instructions for Completing Checklist		
This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at the	he results of the Seismic Walkdown of a wing questions may be used to record th he end of this checklist for documenting	n item of equipment on the e results of judgments and other comments.
Anchorage 1. Is the anchorage configuration veri of the 50% of SWEL items requirin	fication required (i.e., is the item one	Y⊠ N□
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion to oxidation?	that is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cra	cks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration con (Note: This question only applies is which an anchorage configuration <i>Calculation 250226-C-114 excerp</i> <i>built is (4) 3/8" toggle bolt anchora</i> <i>acceptable. CR 485926 to update</i>	nsistent with plant documentation? if the item is one of the 50% for verification is required.) t shows (4) ¼"sleeve anchors. As- s. This bounds the calculation and is calculation.	Y⊠ N⊡ U⊡ N/A⊡
 Based on the above anchorage eva potentially adverse seismic condit 	luations, is the anchorage free of ions?	YM NO UO

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-068

Interaction Effects

7.	Are soft targets fre	e from impact	by nearby	equipment or structures?	YX N	
	0	7	~ ~	7 7		

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: <u>Tim Wattleworth</u>	Sumater Shat	Date: <u>8/23/12</u>	
Evaluated by: <u>Matthew Winter</u>	Mato U	Date: <u>8/23/12</u>	

Status Y⊠ N□ U□

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-069

AWC # <u>SP2-WB-007</u>

Equipment ID No. <u>2-EPD-B-2A</u> Equip. Class <u>15</u>

Equipment Description 125V BATTERY

Location: Bldg. <u>SERVICE</u> Floor El. <u>9'-6"</u> Room, Area <u>Battery Room 2A</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

1.	Is the anchorage	configuration v	verification r	equired (i.e.,	is the item one	Y⊠	N
	of the 50% of SV	VEL items requ	iring such v	verification)?			

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N⊡ U⊡ N/A⊡
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
 Is the anchorage configuration consistent 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 Calculations 52182-C-006, 52182-C-006 	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YM NO UO

SWC # SP2-WD-SWEL-069

Interaction Effects

7.	Are soft targets	free from	impact b	y nearby	equipment	t or structures?	Υ⊠	ND I	UΠ	N/A
				,					_	

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage? YX N UNA
- 10. Based on the above seismic interaction evaluations, is equipment free Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: <i>Tim Wattleworth</i>	Sunoth Shat	Date: <u>8/23/12</u>	
	Mater 1) >	D. (
Evaluated by: <i>Matthew Winter</i>		Date: 8/23/12	

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-070

AWC # <u>SP2-WB-040</u>		Status Y⊠ N□ U□
Equipment ID No. 2-EPD-B-2B	Equip. Class 15	
Equipment Description <u>125V BATTERY</u>		
Location: Bldg. <u>TURB</u> Floor El. <u>9</u>	'-6'' Room, Area <u>Battery Room</u>	<u>a 2B</u>
Manufacturer, Model, Etc. (optional but re	commended)	
Instructions for Completing Checklist This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at the	ne results of the Seismic Walkdown of wing questions may be used to record t ne end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requirin	fication required (i.e., is the item one ng such verification)?	Y⊠ N□
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y N U N/A
3. Is the anchorage free of corrosion t oxidation?	that is more than mild surface	YX NO UO N/AO
4. Is the anchorage free of visible cra	cks in the concrete near the anchors?	YX NI UI N/AI
 Is the anchorage configuration con (Note: This question only applies is which an anchorage configuration Consistent with USI A-46 SEWS Note: "O" bolts not "J". This was 	sistent with plant documentation? If the item is one of the 50% for verification is required.)	Y⊠ N⊡ U⊡ N/A⊡
Calculations J2162-C-000, J2182	-C-007	
Based on the above anchorage eva potentially adverse seismic conditi	luations, is the anchorage free of ions?	YX NO UO

SWC # SP2-WD-SWEL-070

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	Yo no uo n/ao
and masonry block walls not likely to collapse onto the 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?	
·	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could	YX NI UI
adversely affect the safety functions of the equipment?	
Comments (Additional pages may be added as necessary)	
<u></u> (
Evaluated by: Tim Wattleworth Smathy Alas	_ Date: <u>8/23/12</u>
Evaluated by Matthew Winter Att 1.	Date: 8/23/12
Lyaluana oy. Inaumen minier	

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-071

AWC #	<u>SP2-WB-029</u>
-------	-------------------

Status Y⊠ N□ U□

Equipment ID No. <u>2-EE-B-EG2</u> Equip. Class <u>15</u>

Equipment Description EDG BATTERY

Location: Bldg. <u>SERVICE</u> Floor El. <u>27</u>' Room, Area <u>EDG 2 ROOM</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

- 1. Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?
- 2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□
 - 1) All bolts are 1/2" diameter anchor bolts, where installed.
 - 2) Anchor bolts on North side only of southernmost baseplate. All other 5 baseplates were as-designed.

 $\begin{array}{c|c} + & 0 \\ + & 0 \\ + & 0 \end{array} \leftarrow no anchor bolts$

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Dried battery acid on second baseplate in from the North side, some minor corrosion → informed battery system engineer and submitted CR 486007.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U U N/A U N

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-071

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? 1-HS-UH-7B overhead to North side – supported by threaded rods and piping – no 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? Large overhead lights secured to Unistrut frame that is rodhung from ceiling. No seismic concern. See note about SA line in SP2-WB-029. 	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could	YX NO UO

Comments (Additional pages may be added as necessary)

adversely affect the safety functions of the equipment?

-Misaligned channel nut on bottom tier at south side of battery rack. CR 485998 submitted.

Evaluated by: <u>Daniel J. Vasquez</u>	A	Date: <u>8/24/12</u>
Evaluated by: <i>David Germano</i>	David Germano	Date: <u>8/24/12</u>

Page D-106

Page 1 of 2

SWC # SP2-WD-SWEL-074

AWC #	SP2-WB-029

Status Y⊠ N□ U□

Equipment ID No. <u>2-EE-EG-1</u> Equip. Class <u>17</u>

Equipment Description <u>EMERGENCY DIESEL GENERATOR</u>

Location: Bldg. <u>SERVICE</u> Floor El. <u>27</u>' Room, Area <u>EDG 2 ROOM</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N⊡ U⊡ N/A⊡
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Consistent with Drawing 11448-FC-2VC</i>	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX ND UD

1 10

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-074

Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	YM NO UO N/AO
8 Are overhead equipment distribution systems, ceiling tiles and lighting	
and masonry block walls not likely to collapse onto the 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?	
	~
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO
Comments (Additional pages may be added as necessary)	
Several bolts appeared to be missing from the generator end of the diese systems engineer who identified that the "missing bolts" are not miss bolts. Not an issue.	$el \rightarrow discussed$ with electrical sing, but are used as jacking
	·····
Evaluated by: <u>Daniel J. Vasquez</u>	_ Date: <u>8/24/12</u>
Evaluated by: David Germano David Germane	Date: 8/24/12

Evaluated by: David Germano David Hermane

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-075</u>		
AWC # <u>SP2-WB-019</u>		Status Y⊠ N□ U□
Equipment ID No. 2-CC-PS-203	Equip. Class_18	
Equipment Description <u>CHPUMP CC PR</u>	ESSURE SWITCH	
Location: Bldg. <u>AUX</u> Floor El. <u>2</u>	Room, Area <u><i>G</i>/9.5</u>	
Manufacturer, Model, Etc. (optional but re	commended)	
Instructions for Completing Checklist This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	the results of the Seismic Walkdown of ving questions may be used to record to the end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requirir	fication required (i.e., is the item one ag such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	YX NI UI N/AI
3. Is the anchorage free of corrosion t oxidation?	hat is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crac	cks in the concrete near the anchors?	YX NO ÜD N/AD
5. Is the anchorage configuration con (Note: This question only applies i which an anchorage configuration	sistent with plant documentation? f the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
Based on the above anchorage eva potentially adverse seismic conditi	luations, is the anchorage free of ons?	YX ND UD

Page D-108

SWC # <u>SP2-WD-SWEL-075</u>

Interaction Effects

7. The solit targets nee from impact by hearby equipment of situetates. IN TALL OL TATL	7. Are soft targets free from impact by nearby equipment or struc	tures? Y⊠ N□ U□ N/A□
---	---	----------------------

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Condition

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

Comments (Additional pages may be added as necessary)

- ALAAL		
Evaluated by: William Gallagher, Sr.	Date:	8/23/12
Elm	Data	0/12/11
Evaluated by: <u>Ellery Baker</u>	Date:	8/23/12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-076</u>

AWC # SP2-WB-031		Status Y⊠ N□ U□
Equipment ID No. 2-CN-LT-200	Equip. Class_18	
Equipment Description ECST LEVEL TRA	<u>NSMITTER</u>	
Location: Bldg. <u>YARD</u> Floor El. <u>27</u>	Room, Area	
Manufacturer, Model, Etc. (optional but red	commended)	
Instructions for Completing Checklist This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	e results of the Seismic Walkdown of ving questions may be used to record t le end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage 1. Is the anchorage configuration verif of the 50% of SWEL items requirin	fication required (i.e., is the item one ag such verification)?	Y NX
2. Is the anchorage free of bent, broke	n, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion the oxidation?	hat is more than mild surface	YX NI UI N/AI
4. Is the anchorage free of visible crac	cks in the concrete near the anchors?	YX NO UO N/AO

- 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 Y⊠ N□ U□ potentially adverse seismic conditions?

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-076

.....

•

Interaction Effects			
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□		
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N⊡ U⊡ N/A⊡		
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□		
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO		
Other Adverse Conditions			
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO		
·			
<u>Comments</u> (Additional pages may be added as necessary)			
Evaluated by: Larry Cullivan Abullion .	Date: <u>8/21/12</u>		

Evaluated by: Kevin McGuire	KMM	Date:	8/21/12
	6 J		

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Report Appendix D Pag

Page D-112

Page 1 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-077</u>	
AWC # <u>SP2-WB-019</u>	Status Y⊠ N□ U□
Equipment ID No. <u>2-CC-FT-210A</u> Equip. Class <u>1,2,3</u>	
Equipment Description CC/RHR HX OUTLET FLOW	
Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>NEAR GATE</u>	2
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	f an item of equipment on the the results of judgments and ng other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Consistent with USI A-46 SEWS</i>	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YX N U

ļ

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-077

Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX NO UO
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NI UI
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: William Gallagher, Sr. UUGally S-	Date: <u>8/23/12</u>

My B

Evaluated by: Ellery Baker

Date: <u>8/23/12</u>

SWC # SP2-WD-SWEL-078

AWC # <u>SP2-WB-028</u>		Status Y⊠ N□ U□
Equipment ID No. 2-CS-LT-200B	Equip. Class_18	
Equipment Description <u>RWST LEVEL</u>	• •	
Location: Bldg. YARD Floor El. 27	7' Room, Area	
Manufacturer, Model, Etc. (optional but re	commended)	
Instructions for Completing Checklist	· · · · · · · · · · · · · · · · · · ·	
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	he results of the Seismic Walkdown of wing questions may be used to record the end of this checklist for documenting	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requirir	fication required (i.e., is the item one ng such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broke	en, missing or loose hardware?	Y N UNAX
3. Is the anchorage free of corrosion t oxidation?	hat is more than mild surface	Y NO U N/AX
4. Is the anchorage free of visible crac	cks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration con (Note: This question only applies i which an anchorage configuration	sistent with plant documentation? f the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
 Based on the above anchorage eval potentially adverse seismic conditi 	luations, is the anchorage free of ons?	YM NO UO

SWC # <u>SP2-WD-SWEL-078</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?	YM NO UO
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Larry Cullivan Alalium.	_ Date: <u>8/21/12</u>
Evaluated by: Kevin McGuire KMM	_ Date: <u>8/21/12</u>

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-079

potentially adverse seismic conditions?

AWC # <u>SP2-WB-013</u>	Status Y⊠ N□ U□
Equipment ID No. 2-MS-PT-2484 Equip. Class 18	· · · · · · · · · · · · · · · · · · ·
Equipment Description MS Pressure Transmitter	
Location: Bldg. <u>CSPH</u> Floor El. <u>11'</u> 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 SWEL. The space below each of the following questions may be used to record t findings. Additional space is provided at the end of this checklist for documenting	an item of equipment on the the results of judgments and of other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YX N
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) <i>Consistent with USI A-46 SEWS</i>	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of	

SWC # SP2-WD-SWEL-079

Interaction Effects

7. A	re soft targets	free from i	impact by	v nearby	equipment or structures?	Y 🛛 1	NEL	ULL	$N/A\square$
------	-----------------	-------------	-----------	----------	--------------------------	-------	-----	-----	--------------

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX NI UI N/AI and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan	Splonthon D.	Date:	8/24/12
Evaluated by: Kevin McGuire	K-MM-	Date:	8/24/12

Page D-118

Status YX N U

Page 1 of 2

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-080

AWC # <u>SP2-WB-044</u>

Equipment ID No. 2-MS-FT-200 Equip. Class 18

Equipment Description MS FLOW TRANSMITTER

Location: Bldg. <u>CSPH</u> Floor El. <u>27</u>' Room, Area <u>GA/5.6</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2.	Is the anchorage free of bent, broken, missing or loose hardware?	YX NO UO N/AO
3.	Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4.	Is the anchorage free of visible cracks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5.	Is the anchorage configuration consistent 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 # SP2-WD-SWEL-080

Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N⊡ U⊡ N/A⊡
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Yon u
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO
<u>Comments</u> (Additional pages may be added as necessary)	

	· · · · · · · · · · · · · · · · · · ·
Evaluated by: Ellery Baker FAAB	Date: 8/20/12
hundred O	
Evaluated by: William Gallagher, Sr. Workshill	Date: 8/20/12

Seismic Walkdown Checklist (SWC)

SWC #	SP2-WD-SWEL-081	
-------	-----------------	--

AWC # <u>SP2-WB-013</u>		Status Y🛛 N🗌 U
Equipment ID No. 2-MS-PT-201A	Equip. Class_18	
Equipment Description MS PRESSURE TH	RANSMITTER	
Location: Bldg. <u>CSPH</u> Floor El. <u>11</u>	, Room, Area	
Manufacturer, Model, Etc. (optional but red	commended)	
Instructions for Completing Checklist		
This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	e results of the Seismic Walkdown of ring questions may be used to record the e end of this checklist for documenting	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verif of the 50% of SWEL items requirin	ication required (i.e., is the item one g such verification)?	Y NX
2. Is the anchorage free of bent, broke	n, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion the oxidation?	hat is more than mild surface	Y N U N/A
4. Is the anchorage free of visible crac	eks in the concrete near the anchors?	Y N U N/A
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration of	sistent with plant documentation? I the item is one of the 50% for verification is required.)	Y□ N□ U□ N/A⊠
6. Based on the above anchorage eval potentially adverse seismic condition	uations, is the anchorage free of	YM NH UH

Page D-121

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-081

\sim The solit diffetion into in intract by hear by equipment of structures: $1 \sim 1 $	7. A	Are soft targets free	from impact by	y nearby equipr	ment or structures?	Y⊠ N□	U N/A
--	------	-----------------------	----------------	-----------------	---------------------	-------	-------

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX N UN/A and masonry block walls not likely to collapse onto the 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 YX NU UU of potentially adverse seismic interaction effects?

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could YX ND UD adversely affect the safety functions of the equipment?

Comments (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan	Allion J.	Date:	8/22/12
Evaluated by: <u>Kevin McGuire</u>	KMM	Date:	8/22/12

٢

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-082

~

AWC # SP2-WB-011	Statu	
Equipment ID No. 2-RC-LT-2321	Fouin Class 18	
Equipment Description RVI IS B N-RANG		
Equipment Description <u>AVEND D A-MANO</u>		
Location: Bldg. <u>AUX</u> Floor El. <u>1</u> .	$\frac{3}{10.5}$ Room, Area <u>L/10.5</u>	
Manufacturer, Model, Etc. (optional but re	commended)	
Instructions for Completing Checklist This checklist shall be used to document th SWEL. The space below each of the follow findings. Additional space is provided at th	ne results of the Seismic Walkdown of an item of eq wing questions may be used to record the results of j he end of this checklist for documenting other comm	uipment on the udgments and ients.
Anchorage		
1. Is the anchorage configuration veri of the 50% of SWEL items requirin	fication required (i.e., is the item one $Y \boxtimes N \square$ ng such verification)?	
2. Is the anchorage free of bent, broke	en, missing or loose hardware? $Y \boxtimes N \square U$	J N/A
3. Is the anchorage free of corrosion t oxidation?	that is more than mild surface $Y \boxtimes N \square U$	J N/A
4. Is the anchorage free of visible cra	cks in the concrete near the anchors? $Y \boxtimes N \square U$	J□ N/A□
5. Is the anchorage configuration con (Note: This question only applies i which an anchorage configuration <i>Consistent with USI A-46 SEWS</i>	isistent with plant documentation? Y⊠ N□ U if the item is one of the 50% for verification is required.)	J□ N/A□
6. Based on the above anchorage eva potentially adverse seismic condition	aluations, is the anchorage free of $Y \boxtimes N \square U$ ions?	J

•

Page	2	of	2
------	---	----	---

SWC # SP2-WD-SWEL-082

Interaction Effects

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

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX NI UNANA and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: William Gallagher, Sr.	Date: 8/24/12
Evaluated by: Ellery Baker	Date: 8/24/12
/	

Status YX N UU

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-083

AWC # <u>SP2-WB-014</u>

Equipment ID No. 2-SW-PS-7 Equip. Class 18

Equipment Description <u>CHPUMP SW PRESSURE SWITCH</u>

Location: Bldg. <u>SERVICE</u> Floor El. <u>9'</u> Room, Area <u>MER 4</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	YX N UN N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	YX NI UI N/AI
5. Is the anchorage configuration consistent 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?	YM ND UD
.

Seismic Walkdown Checklist (SWC)	v
SWC # <u>SP2-WD-SWEL-083</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?	YX NO UO
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Larry Cullivan Hallwan	Date: <u>8/29/12</u>
Evaluated by: David Germano David Lermano	Date: <u>8/29/12</u>

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-087

AWC # <u>SP2-WB-019</u>		
Equipment ID No. <u>2-CC-RTD-209B</u>	Equip. Class 19	
Equipment Description <u>RHR HX OUTLE</u>	<u>T TEMP</u>	·
Location: Bldg. <u>AUX</u> Floor El. <u>2</u>	Room, Area <u>J/10.7</u>	
Manufacturer, Model, Etc. (optional but re	ecommended)	
Instructions for Completing Checklist This checklist shall be used to document t SWEL. The space below each of the follo findings. Additional space is provided at t	he results of the Seismic Walkdown of wing questions may be used to record t he end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration ver of the 50% of SWEL items requiri	ification required (i.e., is the item one ing such verification)?	Y NX
2. Is the anchorage free of bent, brok	ten, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion oxidation?	that is more than mild surface	YX NI UI N/AI
4. Is the anchorage free of visible cra	acks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration con (Note: This question only applies which an anchorage configuration	nsistent with plant documentation? if the item is one of the 50% for a verification is required.)	Y□ N□ U□ N/A⊠
 Based on the above anchorage ev potentially adverse seismic condi 	aluations, is the anchorage free of tions?	YM ND UD

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-087</u>

Interaction Effects

7. Are sold largers lies from impact by hearby equipment of structures?	'. A	Are soft targets:	free from imp	pact by nearly	y equipment of	or structures?	Y⊠ N□	U	N/A□
---	------	-------------------	---------------	----------------	----------------	----------------	-------	---	------

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the equipment?
- 9. Do attached lines have adequate flexibility to avoid damage? YX NI UI N/AI
- 10. Based on the above seismic interaction evaluations, is equipment free Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

$\dots \cap \Lambda$	
Evaluated by: William Gallagher, Sr.	Date: 8/23/12
Evaluated by: Ellery Baker	Date: 8/23/12

ł

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-088

AWC # <u>SP2-WB-011</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-CH-TIC-1103</u> Equip. Class <u>19</u>	
Equipment Description <u>BAST A TEMP</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>13'</u> 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 SWEL. The space below each of the following questions may be used to reco findings. Additional space is provided at the end of this checklist for docume	n of an item of equipment on the ord the results of judgments and nting other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item of of the 50% of SWEL items requiring such verification)?	ne Y⊠ N□
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchor	s? Y⊠ N□ U□ N/A□
5. Is the anchorage configuration consistent 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?	YM NO UO

	Page 2 of 2
Seismic Walkdown Checklist (SWC)	
SWC # <u>SP2-WD-SWEL-088</u>	
<u>Interaction Effects</u> 7 Are soft targets free from impact by nearby equipment or structures?	
7. Are son targets nee from inpact by hearby equipment of structures?	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
0. Do attached lines have adapted flowibility to guaid damage?	
9. Do attached fines have adequate nexionity to avoid damage?	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YX NO UO
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NLI ULI
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Ellery Baker Ella Went	Date: 8/24/12
illi A	
Evaluated by: William Gallagher, St. M. Zalf	Date: <u>8/24/12</u>
, V	

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Report Appendix D Page D-129

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-089

AWC # <u>SP2-WB-011</u>	Status Y⊠ N□ U□
Equipment ID No. <u>1-CH-TIC-1166</u> Equip. Class <u>19</u>	
Equipment Description <u>BAST B TEMP</u>	
Location: Bldg. <u>AUX</u> Floor El. <u>13</u> ' Room, Area <u>FOPH</u>	
Manufacturer, Model, Etc. (optional but recommended)	·····
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for document	f an item of equipment on the the results of judgments and ng other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	YM ND
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	YX NO UO N/AO
 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Spacing is essentially the same as in SEWS ± ¼" normally 	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	YN N U

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-089

_

Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	YM NO UO
	·
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YM NO UO
<u>Comments</u> (Additional pages may be added as necessary)	

	11	
Evaluated by: Ellery Baker	Elan IA	Date: 8/24/12
Evaluated by: William Gallagher, Sr.	WM Jally 8	Date: <u>8/24/12</u>

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-090

AWC # SP2-WB-028		Status Y⊠ N□ U□
Equipment ID No. 2-CS-RTD-200A	Equip. Class 19	· · · · ·
Equipment Description <u>RWST TEMP</u>	• •	
Location: Bldg. <u>YARD</u> Floor El. 27	7. Room, Area	
Manufacturer, Model, Etc. (optional but re	commended)	
Instructions for Completing Checklist This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ving questions may be used to record the end of this checklist for documenting	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verified of the 50% of SWEL items requiring	fication required (i.e., is the item one g such verification)?	Y INX
2. Is the anchorage free of bent, broke	n, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion to oxidation?	hat is more than mild surface	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible crac	eks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration cons (Note: This question only applies in which an anchorage configuration	sistent with plant documentation? f the item is one of the 50% for verification is required.)	Y N U N/A
 Based on the above anchorage eval potentially adverse seismic condition 	uations, is the anchorage free of ons?	YM NO UO

Page D-132

Page	2	of	2
------	---	----	---

:

Seismic Walkdown Checklist (SWC)	
SWC # <u>SP2-WD-SWEL-090</u>	
Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures?	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y N U U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N⊟ U⊟
Other Adverse Conditions 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Larry Cullivan Honlivin J.	_ Date: <u>8/21/12</u>
Evaluated by: <u>Kevin McGuire</u>	_ Date: <u>8/21/12</u>

Page	1	of	2
------	---	----	---

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-093</u>

AWC # SP2-WB-013		Status YX N U
Equipment ID No. 2-MS-PT-2475	Equip. Class_18	
Equipment Description MS Pressure Trans	mitter	
Location: Bldg. CSPH Floor El. 11	Room, Area	
Manufacturer, Model, Etc. (optional but rec	ommended)	
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ing questions may be used to record the end of this checklist for documenting	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verifi of the 50% of SWEL items requiring	cation required (i.e., is the item one g such verification)?	Y⊠ N□
2. Is the anchorage free of bent, broker	n, missing or loose hardware?	Y⊠ N⊡ U⊡ N/A⊡
3. Is the anchorage free of corrosion th oxidation?	at is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crac	ks in the concrete near the anchors?	Y⊠ N⊡ U⊡ N/A⊡
5. Is the anchorage configuration cons (Note: This question only applies if which an anchorage configuration v Consistent with USI A-46 SEWS	istent with plant documentation? the item is one of the 50% for rerification is required.)	Y⊠ N□ U□ N/A□
6. Based on the above anchorage evalution potentially adverse seismic condition	nations, is the anchorage free of ns?	YX NI UI

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-093

Interaction Effects

7.	Are soft targets fre	ee from im	pact by nearl	y equipment	or structures?	YX N	N/A□
				J - 1			

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan Houliwan p.	Date:	8/24/12
Evaluated by: Kevin McGuire K-Mig-	_ Date:	8/24/12

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Report Appendix D Page D-136

Page 1 of 2

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-094

AWC # <u>SB1-WB-009</u>	Status Y🛛 N🗌 U🗌
Equipment ID No. <u>2-RP-CAB-CH-IB</u> Equip. Class <u>20</u>	
Equipment Description <u>REACTOR PROTECTION CAINETS</u>	
Location: Bldg. <u>SVCS</u> Floor El. <u>9'6''</u> Room, Area <u>ESGR</u>	
Manufacturer, Model, Etc. (optional but recommended)	
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting the space of	f an item of equipment on the the results of judgments and ng other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y NX
2. Is the anchorage free of bent, broken, missing or loose hardware? Opened cabinets 2-RP-CAB-IB, IIB, IIIB, IVB, and $5B \rightarrow observed$ eight total anchor bolts. This anchorage configuration was found to be adequate during IPEEE.	Y⊠ N⊟ U⊟ N/A⊟
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?	YM NO UO N/AO
5. Is the anchorage configuration consistent 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?	YM NO UO

Seismic Walkdown Checklist (SWC)

٨

SWC # SP2-WD-SWEL-094

Interaction Effects

 7. Are soft targets free from impact by nearby equipment or structures? 1) Bolted to adjacent cabinet to the west (Miscellaneous Rack No. 2) 	Y N N U N/A
 2) Two large storage cabinets to the east of 1-RP-CH-IB and one large storage cabinet to the east of 2-RP-CAB-CH-5A. All three storage cabinets were unlocked by I&C, and it was determined that all three storage cabinets are secured to the wall using four bolts for each cabinet. No seismic interaction concerns. 	
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Overhead fluorescent lighting to North and South of cabinet. This type of lighting was addressed during USI A-46/ IPEEE and concluded not to be a seismic 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⊟
<u>Comments</u> (Additional pages may be added as necessary)	
Evaluated by: Daniel J. Vasquez	_ Date: <u>8/27/12</u>

David Germano

_____ Date: <u>8/27/12</u>

Sully I Ower Station 14111 2.5 Selamic Walkdown Sullmary Report Append	Surry Power Station	NTTF 2.3 Seismic Walkdown Summary Report	Appendix [
--	---------------------	--	------------

D Page D-138

Page	1	of	2
9 -		•••	_

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-095</u>

AWC # <u>SP1-WB-045</u> Status Y⊠ N□ U□
Equipment ID No. <u>1-CC-E-1D</u> Equip. Class <u>21</u>
Equipment Description <u>CC HX</u>
Location: Bldg. <u>TURB</u> Floor El. <u>10</u> ' Room, Area <u>CC HX AREA</u>
Manufacturer, Model, Etc. (optional but recommended)
Instructions for Completing Checklist
This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.
Anchorage
 Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?
4. Is the anchorage free of visible cracks in the concrete near the anchors? $Y \boxtimes N \square U \square N/A \square$
 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 Drawings 11448-FM-6C, 11448-FC-2S/6A Calculation 52182-C-016
6. Based on the above anchorage evaluations, is the anchorage free of Y⊠ N□ U□ potentially adverse seismic conditions?

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-095

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? Y⊠ N□ U□ N/A□
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX N UNANA and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: <u>Tim Wattleworth</u>	Semoty Aluat	Date:	8/21/12
Evaluated by: <u>Matthew Winter</u>	Matto Was	Date:	8/21/12

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-096</u>	
AWC # <u>SP2-WB-031</u>	Status Y⊠ N□ U□
Equipment ID No. <u>2-CN-TK-1</u> Equip. Class <u>21</u>	
Equipment Description <u>ECST</u>	· · ·
Location: Bldg. <u>YARD</u> Floor El. <u>27'</u> 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 SWEL. The space below each of the following questions may be used to record the findings. Additional space is provided at the end of this checklist for documenting the space of the spac	an item of equipment on the the results of judgments and ag other comments.
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
2. Is the anchorage free of bent, broken, missing or loose hardware?	Y□ N□ U□ N/A⊠
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
 Is the anchorage configuration consistent 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? Anchorage is encased in concrete.	YX NI UI

Seismic Walkdown Checklist (SWC)

SWC # SP2-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, Y⊠ N□ U□ N/A□ and masonry block walls not likely to collapse onto the 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 Y⊠ N□ U□ of potentially adverse seismic interaction effects?

Other Adverse Conditions

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

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan	Alphlion p.	Date:	8/21/12
Evaluated by: <u>Kevin McGuire</u>	KMM-	_ Date:	8/21/12

ł

Page 1 of 2

:

:

Seismic Walkdown Checklist (SWC)

SWC # SP2-Y	WD-SWEL-097
-------------	-------------

AWC # <u>SP2-WB-028</u>		Status Y⊠ N□ U□
Equipment ID No. 2-CS-TK-2	Equip. Class_21	
Equipment Description <u>CAUSTIC STORA</u>	<u>GE TANK</u>	·
Location: Bldg. <u>YARD</u> Floor El. <u>27</u>	⁷ Room, Area <u>YARD</u>	
Manufacturer, Model, Etc. (optional but re	commended)	······
Instructions for Completing Checklist		
This checklist shall be used to document the SWEL. The space below each of the follow findings. Additional space is provided at the	e results of the Seismic Walkdown of ving questions may be used to record t a end of this checklist for documentin	an item of equipment on the he results of judgments and g other comments.
Anchorage		
1. Is the anchorage configuration verify of the 50% of SWEL items requiring	fication required (i.e., is the item one ag such verification)?	YM N
2. Is the anchorage free of bent, broke	m, missing or loose hardware?	Y⊠ N□ U□ N/A□
3. Is the anchorage free of corrosion t oxidation?	hat is more than mild surface	Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible crac	cks in the concrete near the anchors?	Y⊠ N□ U□ N/A□
5. Is the anchorage configuration con (Note: This question only applies i which an anchorage configuration EQE Calculation 250226-C-130	sistent with plant documentation? f the item is one of the 50% for verification is required.)	Y⊠ N□ U□ N/A□
6. Based on the above anchorage eva potentially adverse seismic conditi	luations, is the anchorage free of ons?	Y⊠ N□ U□

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-097

Interaction Effects 7. Are soft targets free from impact by nearby equipment or structures? YX NO UO N/AO 1 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, YX NI UI N/AI and masonry block walls not likely to collapse onto the equipment? 9. Do attached lines have adequate flexibility to avoid damage? YX NO UO N/AO 10. Based on the above seismic interaction evaluations, is equipment free YX NO UO of potentially adverse seismic interaction effects? **Other Adverse Conditions** 11. Have you looked for and found no other seismic conditions that could YX NO UO adversely affect the safety functions of the equipment? Comments (Additional pages may be added as necessary)

Evaluated by: Larry Cullivan	Alallion .	Date:	8/21/12
Evaluated by: <u>Kevin McGuire</u>	KMis	Date:	8/21/12

Status Y⊠ N□ U□

Page 1 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-098</u>

AWC # <u>SP2-WB-004</u>

Equipment ID No. <u>2-FW-E-9</u> Equip. Class <u>21</u>

Equipment Description FW-P-2-OIL COOLER

Location: Bldg. <u>MSVH</u> Floor El. <u>27'-6"</u> Room, Area <u>AFW Pump Area</u>

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?	
3. Is the anchorage free of corrosion that is more than mild surface oxidation?	Y□ N□ U□ N/A⊠
4. Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
5. Is the anchorage configuration consistent 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 # SP2-WD-SWEL-098

·	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,	YX NO UO N/AO
and masonry block walls not likely to collapse onto the 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 saismic interaction effects?	YX NO UO
of potentially adverse seismic interaction circles?	
·	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX ND UD
	· ·
Comments (Additional pages may be added as necessary)	
-	
Eli p	
Evaluated by: <u>Ellery Baker</u>	_ Date: <u>8/21/12</u>
Evaluated by: William Gallagher, Sr Madelha	Date: <u>8/21/12</u>
v = v - v	

Seismic Walkdown Checklist (SWC)

SWC # SP2-WD-SWEL-099

AWC # SP2-WB-029 Status YX N U Equip. Class 21 Equipment ID No. 2-EE-TK-3 Equipment Description EDG 2 FO DAY TANK Floor El. <u>27'</u> Location: Bldg. SERVICE Room, Area EDG 2 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 $Y \square N \boxtimes$ of the 50% of SWEL items requiring such verification)? 2. Is the anchorage free of bent, broken, missing or loose hardware? YX NO UNAD

3.	Is the anchorage free of corrosion that is more than mild surface	YX NO UNAO
	oxidation?	

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

5. Is the anchorage configuration consistent with plant documenta	ation? $Y \square N \square U \square N/A \boxtimes$
(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 Y⊠ N□ U□ potentially adverse seismic conditions?

Page 2 of 2

Seismic Walkdown Checklist (SWC)

SWC # <u>SP2-WD-SWEL-099</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□
-Large overhead lights \rightarrow no seismic concerns (rod-hung fixture)	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N⊟ U⊟
ſ	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	YX NO UO
· ·	
Comments (Additional pages may be added as necessary)	
· · · ·	
Evaluated by: David Germano David Hermane	Date: <u>8/27/12</u>
Evaluated by: <u>Daniel J. Vasquez</u>	Date: <u>8/27/12</u>

.

.

Appendix E

Unit 1 Area Walk-by Checklists

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-001</u>

Status Y⊠ N□ U□

YX NO UO N/AO

Location:	Bldg.	<u>SERVICE</u>	Floor El.	27'	Room, Area	<u>EDG #1</u>
-----------	-------	----------------	-----------	-----	------------	---------------

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	YX NO UO N/AO
potentially adverse seismic conditions (if visible without necessarily	
opening cabinets)?	

2. Does anchorage of equipment in the area appear to be free of significant Y⊠ N□ U□ N/A□ degraded conditions?

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)?

- SA line above 1-EE-B-EG1 vertically supported for deadweight by angle-braced cantilever supports and clamped for lateral support approximately every 10' → judged by both SWEs to be seismically adequate to support the SA line.
- 2) Friction clips on conduit attached to the blue air intake; noted on USI A-46 SEWS \rightarrow not a seismic concern

4. Does it appear that the area is free of potentially adverse seismic spatial Y⊠ N□ U□ N/A□ interactions with other equipment in the area (e.g., ceiling tiles and lighting)?

Large overhead lights attached to Unistrut via rod hangers \rightarrow no seismic concern

Area Walk-By Checklist (AWC)

AWC # SP1-WB-001

5. Does it appear that the area is free of potentially adverse seismic	Y⊠ N□ U□ N/A□
interactions that could cause flooding or spray in the area?	

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-001, 064, 071, 075, 088, 099

Evaluated by: David Germano	David Germano	Date: <u>8/24/12</u>
Evaluated by: <i>Daniel J. Vasquez</i>	\land	Date: <u>8/24/12</u>

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-002</u>

	Status Y⊠ N□ U□			
Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>U1 CHPU</u>	MP CUBICLE C			
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?	nt 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)?	al 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□			

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-002</u>

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

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

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-002

Evaluated by: Ellery Baker	Flas Balt	Date:	8/23/12
Evaluated by: William Gallagher Sr	March	Date:	8/23/12
Divinduced by: <u>International Guinagner, or:</u>		_ Dute.	0/20/12

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-003</u>	
	Status Y⊠ N□ U□
Location: Bldg. <u>SERVICE</u> Floor El. <u>9'</u> Room, Area <u>MER 3</u>	
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Area Walk-By near or space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other c	e or more SWEL items. The judgments and findings. 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□
 Does anchorage of equipment in the area appear to be free of significant degraded conditions? I-VS-P-1B has minor loose surface corrosion on support for pump base: Ref. 11448-PSSK-1021A4.140 (SH.1-9), not a seismic concern. CR486465 was submitted. 	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)? Overhead fluorescent lighting evaluated by US1 A-46	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□

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-003</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-003, 028, 062

Evaluated by: Larry Cullivan	Alentin J.	_ Date:	<u>8/29/2012</u>
Evaluated by: <i>David Germano</i>	David Germano	_ Date:	<u>8/29/2012</u>

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-004</u>

					Status	
Location	n: Bldg. <u>TURBINE</u>	Floor El. <u>9'</u>	Room, Area	<u>UI SW PIT (E</u>	EAST)	
Instruct	tions for Completing	g Checklist				
This che space be Addition	ecklist shall be used to clow each of the follo nal space is provided	o document the result wing questions may at the end of this che	lts of the Area W be used to record ecklist for docum	alk-By near one the results of enting other co	e or more SWE judgments and pmments.	L items. The findings.
1.] I (Does anchorage of eq potentially adverse se opening cabinets)? CR 486147 - SW pit l concrete slab. It is no	uipment in the area is ismic conditions (if evel indicator 1-DA-t a seismic concern	appear to be free visible without n LS-116A is not a – no targets.	of æcessarily nchored to	Y⊠ N⊟ U⊟	N/A□
2.]	Does anchorage of ec degraded conditions? CR 486171 – The pip degradation of bolt c loss on the base plate repairing.	uipment in the area e support near 1-SW ross section (at proje . Not critical to supp	appear to be free 7-495 has more th ections) and an a port of pipe. Sugg	of significant an minor rea of section rest	Y⊠ N⊟ U⊑] N/A
3.	Based on a visual ins raceways and HVAC seismic conditions (e conditions of cable tr <i>CR 486148 – conduit</i> <i>Unistrut bar) and a 1</i>	pection from the floo ducting appear to be .g., condition of sup ays appear to be insi- anchorage on west " conduit clamp is l	or, do the cable/c e free of potential ports is adequate ide acceptable lin wall of pit is loos oose.	onduit lly adverse and fill nits)? re (e.g.,	Y⊠ N⊡ U⊏] N/A□
4.	Does it appear that th interactions with othe lighting)?	e area is free of pote er equipment in the a	entially adverse s area (e.g., ceiling	eismic spatial tiles and	Y⊠ N⊟ UE] N/A
5.	Does it appear that the interactions that could	ne area is free of pote d cause flooding or a	entially adverse s spray in the area?	eismic] N/A[]

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-004</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could YX NU U adversely affect the safety functions of the equipment in the area?

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-005

Reference: Drawing 11448-FC-2R

CR 486150 and 486159 – leakage was noted on pipe unions upstream of 1-SW-887 and 1-SW-938, bromination piping, <1 dpm, mark on floor, greenish blue staining present on brass or bronze fittings downstream (verdigris).

CR 486163 – lights out in pit.

Evaluated by: <u>Tim Wattleworth</u>	Mato DD Sur T. M. per telecon	Date:	8/24/12
Evaluated by: <u>Matthew Winter</u>	Meto W.	_ Date:	8/24/12

Area Walk-By Checklist (AWC)

AWC #	SP1-WB-006					
					Status	
Location:	Bldg. <u>MSVH</u>	Floor El. <u>27</u> '	_ Room, Area	UI AFW PUN	AP AREA	
Instructi	ons for Completing	g Checklist				
This chec space bel Additiona	klist shall be used to ow each of the follo al space is provided	o document the result: wing questions may b at the end of this chec	s of the Area Wa be used to record cklist for docume	alk-By near one the results of enting other co	e or more SW judgments an mments.	EL items. The d findings.
1. Do po op	oes anchorage of eq otentially adverse se pening cabinets)?	uipment in the area an ismic conditions (if v	opear to be free o isible without ne	of cessarily	Y⊠ N⊟ U	□ N/A□
2. D de	oes anchorage of eq egraded conditions?	uipment in the area a	ppear to be free o	of significant	Y⊠ N⊟ U	□ N/A□
3. B ra se co	ased on a visual ins aceways and HVAC eismic conditions (e onditions of cable tr	pection from the floor ducting appear to be .g., condition of suppo ays appear to be insid	, do the cable/cc free of potential orts is adequate a e acceptable lim	onduit ly adverse and fill its)?	Y⊠ N⊟ U	□ N/A□
4. D ir li	oes it appear that the the second sec	e area is free of poten er equipment in the ar	tially adverse se ea (e.g., ceiling 1	sismic spatial tiles and	Y⊠ N⊟ U	I □ N/A□
5. E ii	Does it appear that the output of the second	e area is free of poter d cause flooding or sp	tially adverse se oray in the area?	eismic	Y⊠ N⊟ U	J□ N/A□

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-006</u>

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

YX NO UO N/AO

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

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-007, 009, 023, 034, 038, 097

Heat trace junction box support frame south of MDAFWPs is missing, grout under East baseplate. Not a seismic concern.

Evaluated by: Ellery Baker Floring Bars Date: 8/21/12
Evaluated by: William Gallagher Sr / Ulilii Ala Date: 8/21/12
Branding of the stand of the st

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-008</u>

			,		Stat	us Y🛛	
Locati	on: Bldg. <u>AUX</u>	Floor El. <u>15'</u>	Room, Area <u>U1 CABLE V</u>	AULT	'AND	TUNNE	<u>EL</u>
Instru This cl space l Additi	ctions for Completine hecklist shall be used below each of the fol onal space is provide	ng Checklist I to document the resu llowing questions may ed at the end of this ch	Its of the Area Walk-By near or be used to record the results of ecklist for documenting other co	ne or n judgn	nore S nents a nts.	WEL ite and find	ems. The ings.
1.	Does anchorage of potentially adverse opening cabinets)? <i>1-PEN-PI-50 is mis</i> <i>cable tray Run 11 a</i> <i>was ever installed b</i> <i>three bolts are adea</i>	equipment in the area seismic conditions (if sing one bolt (out of for the containment wall. It because of alignment is quate to seismically su	appear to be free of visible without necessarily our) connecting it to vertical does not appear as if the bolt ssues. Both SWEs agree that pport the pressure indicator.	Υ⊠	N	U_ N/	A
2.	Does anchorage of degraded condition	equipment in the area s?	appear to be free of significant	Υ⊠	N	U[] N/	′A□
3.	Based on a visual in raceways and HVA seismic conditions conditions of cable Duct support at So threaded rod on W has angle drilled for tray above. Judged adequate.	nspection from the flo C ducting appear to b (e.g., condition of sup trays appear to be inst uth-East corner of roo est side of duct, but no or threaded rod, but no to be acceptable base	or, do the cable/conduit e free of potentially adverse ports is adequate and fill ide acceptable limits)? m (Unit 1 cable vault): t on East side. The East side one present because of cable ed on adjacent supports being	Υ⊠	N	U NA	/A□
4	Does it appear that interactions with o lighting)? -Overhead fluores and determined no	the area is free of pote ther equipment in the s cent lights were addrea t to be a seismic conce	entially adverse seismic spatial area (e.g., ceiling tiles and ssed during USI A-46/ IPEEE ern.	Υ⊠	N	ע □0	/A[]
5	Does it appear that interactions that co	the area is free of pot buld cause flooding or	entially adverse seismic spray in the area?	ΥØ	N	U DN	/A 🗌

1

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-008</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-010, 090

Evaluated by: <u>Daniel J. Vasquez</u>	A	Date: <u>8/23/12</u>
Evaluated by: <u>David Germano</u>	David Germano	Date: <u>8/23/12</u>
Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-009</u>

•

	Status Y⊠ N□ U□
Location: Bldg. <u>SERVICE</u> Floor El. <u>9'-6"</u> Ro	oom, Area <u>U1/U2 ESGR (including Relay Rooms)</u>
Instructions for Completing Checklist This checklist shall be used to document the results of th space below each of the following questions may be use Additional space is provided at the end of this checklist	ne Area Walk-By near one or more SWEL items. The ed to record the results of judgments and findings. for documenting other comments.
1. Does anchorage of equipment in the area appear potentially adverse seismic conditions (if visible opening cabinets)?	to be free of Y⊠ N□ U□ N/A□ without necessarily
2. Does anchorage of equipment in the area appear degraded conditions?	to be free of significant YX N UN N/A
3. Based on a visual inspection from the floor, do to raceways and HVAC ducting appear to be free of seismic conditions (e.g., condition of supports is conditions of cable trays appear to be inside account	he cable/conduit Y N U N/A of potentially adverse s adequate and fill eptable limits)?
 4. Does it appear that the area is free of potentially interactions with other equipment in the area (e., lighting)? Fluorescent lighting in the overhead – a A-46/ IPEEE → not a seismic concern 	ⁿ adverse seismic spatial Y⊠ N□ U□ N/A□ .g., ceiling tiles and addressed during USI
5. Does it appear that the area is free of potentially interactions that could cause flooding or spray in	n the area? Y⊠ N□ U□ N/A□
6. Does it appear that the area is free of potentially interactions that could cause a fire in the area?	y adverse seismic YX NI UN/AI

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Repo	ort Appendix E	Page E-15 Page 2 of 2
Area Walk-By Checklist (AWC)		
AWC # <u>SP1-WB-009</u>		
 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)? Mobile fire extinguishing unit adjacent to 2J1 Load Center and 2J Load Center – unstable and not supported adequately to prevent interaction with load centers. CR 485502 submitted. 	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? 1) 2-VS-AC-7 corroded bolting on outlet header flange (top). 3 out of 4 bolts corroded. 1 flange bolt corroded on inlet flange. Source of water may be leaking threaded connection at 2-VS-T1-217. 2) Corroded pipe support bolting 1-VS-1040 and 1-VS-1035 CR 485500 and CR 486138 submitted for Item 1. CR 485530 and CR 486137 submitted for Item 2. 	Y⊠ N⊡ UE]
Comments (Additional pages may be added as necessary) Associated Seismic Walkdown Checklists: SP1-WD-SWEL-011, 014, 015, 016, 017, 074 SP2-WD-SWEL-012, 013, 014, 068, 073		
Evaluated by: <u>Daniel J. Vasquez</u>	_ Date: <u>8/21/1</u>	2
Evaluated by: David Germano	_ Date: <u>8/21/1</u>	2

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-010</u>

Status Y⊠ N□ U□

Location:	Bldg. TUR	B Floor El. $9'-6$	" Room	, Area	MER 5	
-----------	-----------	--------------------	--------	--------	-------	--

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)?	YX NO UO NAO
 Does anchorage of equipment in the area appear to be free of signific degraded conditions? 	cant Y⊠ N□ U□ N/A□
 Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially advers 	Y⊠ N□ U□ N/A□
seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	
4. Does it appear that the area is free of potentially adverse seismic spa interactions with other equipment in the area (e.g., ceiling tiles and lighting)?	atial 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□

Page E-16

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-010</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-012, 032, 063

Evaluated by: Larry Cullivan	Haullion A.	_ Date:	<u>8/23/12</u>
Evaluated by: <u>Kevin McGuire</u>	KMin	_ Date:	8/23/12

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-011</u>

1

	•		,								Statı	ıs Y⊠		ļ
Locatio	on: Bld	lg. <u>SE1</u>	RVICE	Floor El.	<u>45'</u>	Ro	oom, Aro	ea <u>U</u> <u>C</u>	VI CABLE S SUBICLE O	'PREAI nly)	DING .	ROOM	<u>(RTB</u>	•
Instru	ctions f	for Co	mpleting	g Checklis	t									-
This ch space b Additio	necklist below e bnal spa	shall b ach of ace is p	be used to the follo provided	o documen wing ques at the end	t the resu tions may of this ch	ults of t y be use necklist	he Area ed to rec for doci	Walk ord th umen	c-By near or ne results of ting other c	ne or m judgm ommer	nore SV nents a: nts.	VEL ite nd findi	ms. The ngs.	
1.	Does a potenti openin	inchora ially ac ig cabir	age of eq lverse se nets)?	uipment in ismic cond	the area litions (if	appear visible	to be fr withou	ee of t nece	essarily	Y⊠	N I	J_ N/2		-
2.	Does a degrad	anchora led cor	age of eq aditions?	uipment ir	n the area	appear	to be fr	ee of	significant	ΥØ	N	U [] N/.	A	
3.	Based racewa seismi condit	on a v ays and ic cond ions of	isual ins d HVAC litions (e f cable tr	pection fro ducting ap .g., conditi ays appear	m the flo opear to b on of sup to be ins	oor, do be free oports i side acc	the cable of poten s adequa ceptable	e/cond tially ite an limits	duit adverse d fill s)?	Υ⊠		U[] N/	A	
4.	Does : interae lightir	it appe ctions 1g)?	ar that th with othe	e area is fi er equipme	ree of pot nt in the	entially area (e	/ advers .g., ceili	e seis ng til	mic spatial es and	Υ⊠	N	U[] N/	́A	
5.	Does intera	it appe ctions	ar that th that coul	ne area is fi d cause flo	ree of pot ooding or	tentially spray	y advers in the are	e seis ea?	mic	Υ⊠	N□	U DN	/A	

٢

Area Walk-By Checklist (AWC)

AWC # SP1-WB-011

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

YX NO UO N/AO

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

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-013

Evaluated by: <u>Daniel J. Vasquez</u>		Date:	8/22/12
Evaluated by: <u>David Germano</u>	Daniel Germano	Date:	8/22/12

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-012</u>

	Status Y⊠ N□ U□
Location: Bldg. <u>SERVICE</u> Floor El. <u>27</u> ' Room, Area <u>CONTROL R</u>	COOM (UNIT 1 SIDE)
Instructions for Completing Checklist This checklist shall be used to document the results of the Area Walk-By near or space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other c	ne or more SWEL items. The judgments and findings. omments.
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)? Light diffusers in Main Control Room clipped per USI A-46/ IPEEE recommendations to protect operators. 	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 # <u>SP1-WB-012</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?
 A clock mounted to conduit above the Heat Trace Monitoring CTS Panel was discussed between the two Seismic Walkdown Engineers (SWEs). Both SWEs agreed that the clock mounting was adequate.

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-018, 067

Evaluated by: <u>Daniel J. Vasquez</u>	\sim	_ Date:	8/23/12
Evaluated by: David Germano	David Germana	_ Date:	8/23/12

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-013</u>

Status Y⊠ N□ U□

Location: Bldg. <u>AUX</u> Floo	El. <u>27'</u> Room, Area	UI AB
---------------------------------	---------------------------	-------

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.

 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□

.

i

	Page 2 of a
Area Walk-By Checklist (AWC)	
AWC # <u>SP1-WB-013</u>	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YM NO UO N/AO
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?	
Comments (Additional pages may be added as necessary)	
Associated Seismic Walkdown Checklists: SP1-WD-SWEL-019	
Evaluated by: Larry Cullivan Honding	Date: <u>8/24/12</u>
Evaluated by: Kevin McGuire KMA	Date: <u>8/24/12</u>

!

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-014</u>

				Status Y🛛	
Location: Bldg. <u>AUX</u>	Floor El. <u>2'</u>	_ Room, Area	<u>U1 CH PUMP</u>	CUBICLE A	
Instructions for Compl This checklist shall be us space below each of the Additional space is prov	eting Checklist sed to document the result following questions may b ided at the end of this chec	s of the Area W be used to record cklist for docum	alk-By near one d the results of ju enting other con	or more SWEL it adgments and find	ems. The lings.
 Does anchorage of potentially advert opening cabinets 	of equipment in the area an se seismic conditions (if v)?	opear to be free isible without n	of ecessarily	YM NO UO N	/A
2. Does anchorage degraded conditi	of equipment in the area a ons?	ppear to be free	of significant	YM NO UO N	//A
3. Based on a visua raceways and Hy seismic condition conditions of cal	l inspection from the floor VAC ducting appear to be ns (e.g., condition of suppo le trays appear to be insid	, do the cable/c free of potential orts is adequate e acceptable lin	onduit lly adverse and fill nits)?	Y⊠ N⊟ U⊟ N	I/A
4. Does it appear the interactions with lighting)?	nat the area is free of poter a other equipment in the ar	ntially adverse s ea (e.g., ceiling	eismic spatial tiles and	Y⊠ N⊡ U⊡ №	N/A□
5. Does it appear the interactions that	hat the area is free of poter could cause flooding or sp	ntially adverse s pray in the area?	eismic	YM NO UO 1	N/A□

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-014</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-020

	Λ_{-}
Evaluated by: William Gallaghar Sr. M. Stell	Date: 8/22/12
Evaluated by. william Gallagher, Sr. 1/V	Date: <u>0/22/12</u>
Evaluated by: Ellery Baker Ella p	Date: 8/22/12

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-015</u>

					Stat	us Y🛛 N🗆 U🗖
Locatio	on: Bldg. <u>FOPH</u>	Floor El. <u>16'</u>	Room, Area	<u>FO PUMP H</u>	OUSE	
Instrue This ch	ctions for Completing	ng Checklist	ts of the Area W	alk-By near on	e or more S	WEI items The
space b Additic	elow each of the follonal space is provide	lowing questions may d at the end of this che	be used to record ecklist for docum	the results of enting other co	judgments a	and findings.
1.	Does anchorage of e potentially adverses opening cabinets)?	equipment in the area a seismic conditions (if y	ppear to be free visible without ne	of ecessarily	Y⊠ N□	U N/A
2.	Does anchorage of e degraded conditions	equipment in the area a ?	appear to be free	of significant	YM ND	U N/A
3.	Based on a visual in raceways and HVA seismic conditions (conditions of cable	spection from the floo C ducting appear to be e.g., condition of supp trays appear to be insid	r, do the cable/co free of potential ports is adequate de acceptable lim	onduit ly adverse and fill its)?	Y⊠ N⊡	U[] N/A[]
4.	Does it appear that interactions with ot lighting)?	the area is free of pote her equipment in the a	ntially adverse so rea (e.g., ceiling	sismic spatial tiles and	YX N	UD N/AD
5.	Does it appear that interactions that con	the area is free of pote ald cause flooding or s	ntially adverse so pray in the area?	eismic	Y⊠ N□	U N/A

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-015</u>

shielding)?

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

7. Does it appear that the area is free of potentially adverse seismic

equipment, and temporary installations (e.g., scaffolding, lead

YX NO UO N/AO

YX NI UI N/A interactions associated with housekeeping practices, storage of portable

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

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-021

Evaluated by: Larry Cullivan Hallward.	Date: <u>8/22/12</u>
Evaluated by: <u>Kevin McGuire</u>	Date: <u>8/22/12</u>

Page 1 of 2

Area Walk-By Checklist (AWC)

AWC # SP1-WB-017

Status Y⊠ N□ U□

Location: Bldg. <u>CSPH</u>	_ Floor El. <u>11</u>	Room, Area			
Instructions for Completin	ıg 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 e potentially adverse s opening cabinets)?	quipment in the area eismic conditions (if	appear to be free of visible without necessarily	Y⊠ N□ U□ N/A□		

- 2. Does anchorage of equipment in the area appear to be free of significant YX N UN N/A degraded conditions?
- 3. Based on a visual inspection from the floor, do the cable/conduit YX NO UO N/AO 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)?
- 4. Does it appear that the area is free of potentially adverse seismic spatial Y⊠ N□ U□ N/A□ interactions with other equipment in the area (e.g., ceiling tiles and lighting)?
- 5. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause flooding or spray in the area?

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-017</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

Y⊠ N□ U□ N/A□

Y⊠ N□ U□ N/A□

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

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-024, 047

Evaluated by: Larry Cullivan Doullow J.	Date:	8/22/12
Evaluated by: Kevin McGuire	Date:	8/22/12

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-018</u>

					Status	YN ND UD
Locatio	on: Bldg. <u>AUX</u>	_ Floor El. <u>2'</u>	Room, Area	UI AB (CC PU	UMP AREA)	······································
Instrue This ch	ctions for Completin necklist shall be used below each of the follo	g Checklist to document the resul	ts of the Area Wa	alk-By near one the results of j	e or more SWI udgments and	EL items. The
Additio	onal space is provided	at the end of this che	ecklist for docum	enting other con	mments.	0
1.	Does anchorage of e potentially adverse s opening cabinets)?	quipment in the area a eismic conditions (if	appear to be free visible without ne	of cessarily	YM ND U] N/A
2.	Does anchorage of e degraded conditions	quipment in the area a	appear to be free	of significant	Y⊠ N⊟ U[] N/A[]
3.	Based on a visual intraceways and HVAC seismic conditions (conditions of cable t	spection from the floc c ducting appear to be e.g., condition of supp rays appear to be insi	or, do the cable/co e free of potential ports is adequate a de acceptable lim	onduit ly adverse and fill its)?] N/A[]
4.	Does it appear that the interactions with oth lighting)?	he area is free of pote er equipment in the a	ntially adverse se rea (e.g., ceiling t	ismic spatial files and	YX ND U] N/A[]
5.	Does it appear that t interactions that cou	he area is free of pote ld cause flooding or s	entially adverse se pray in the area?	sismic	Y⊠ N⊡ U	□ N/A□

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-018</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic YX NO UO N/AO interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could YX ND UD adversely affect the safety functions of the equipment in the area? Heat trace boxes H7-7B 2B/D and 2A/D support frame base plates are not grouted and do not have shims under (no surface to bear on). Should be grouted or shims installed. Not a seismic concern. Submitted CR 485682.

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-025

Evaluated by: <u>Ellery Baker</u>	Elly Bar 10	Date: 8/22/12	
Evaluated by: <u>William Gallagher, Sr.</u>	Morelly		_

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-019</u>

٠.

					Status	Y⊠ N⊏] טם
Locatio	on: Bldg. <u>FPH</u>	Floor El. <u>15'</u>	Room, Area	FIRE PUMP	HOUSE		
Instru	ctions for Completi	ng Checklist					
This ch space b Additic	ecklist shall be used elow each of the follonal space is provide	to document the resul owing questions may d at the end of this che	ts of the Area Wa be used to record ecklist for docume	alk-By near one the results of j enting other co	e or more SWE judgments and mments.	EL items. findings.	The
1.	Does anchorage of e potentially adverse s opening cabinets)?	quipment in the area a eeismic conditions (if y	ppear to be free or risible without ne	of ccessarily	YM ND UD] N/A□	
2.	Does anchorage of e degraded conditions	equipment in the area a ?	ppear to be free o	of significant	YM ND UD] N/A	
3.	Based on a visual in raceways and HVA seismic conditions (conditions of cable	spection from the floo C ducting appear to be e.g., condition of supp trays appear to be insid	r, do the cable/co free of potential orts is adequate a le acceptable lim	onduit ly adverse and fill its)?	YM NO UC] N/A	
4.	Does it appear that interactions with ot lighting)?	he area is free of pote her equipment in the a	ntially adverse se rea (e.g., ceiling t	ismic spatial iles and	Y⊠ N⊟ U[] N/A	
5.	Does it appear that interactions that cou	the area is free of pote ald cause flooding or s	ntially adverse se pray in the area?	eismic] N/A[]	

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-019</u>

6.	Does it appear that the area is free of potentially adverse seismic	YX NO UO N/AO
	interactions that could cause a fire in the area?	

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

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

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-026

Evaluated by: Larry Cullivan	Alballion J.	Date: <u>8/22/12</u>	
Evaluated by: <u>Kevin McGuire</u>	KMJ	Date: <u>8/22/12</u>	

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-020</u>

	Status Y⊠ N□ U□
Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>UI AB</u>	
Instructions for Completing Checklist	**************************************
This checklist shall be used to document the results of the Area Walk-By near or space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other co	e or more SWEL items. The judgments and findings.
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□
 Does anchorage of equipment in the area appear to be free of significant degraded conditions? CR 486176 was submitted for a spring hanger on line 3"-CC-73-151. This support has significant corrosion but is considered functional. 	Y NX 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 # SP1-WB-020

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-027, 040, 041, 077, 084

CR 485970 was submitted to document abandoned in place Copper Tubing labeled "Argon". The line is 1" diameter at the AB Basement elevation on the Unit 1 side of the AB. The piping increases in diameter to 2" between Unit 1 and Unit 2 AB Basement. The piping is sometimes attached to existing supports or routed through pipe supports so that the position will be maintained during and after a seismic event.

Evaluated by: <u>William Gallagher, Sr.</u>	UMalh	Date: <u>8/27/12</u>
Evaluated by: <u>Ellery Baker</u>	Elm Men	Date: <u>8/27/12</u>
	<i>u</i>	

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-021</u>

					Status Y⊠ N□ U□	
Locatio	on: Bldg. <u>ESPH</u>	Floor El. <u>18</u> '	Room, Area	ESPH		
Instru	ctions for Compl	eting Checklist	·			
This ch space b Additio	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 potentially adverse opening cabinets)	of equipment in the area area se seismic conditions (if ?	appear to be free visible without no	of cessarily	Y⊠ N□ U□ N/A□	
2.	Does anchorage of degraded condition	of equipment in the area	appear to be free	of significant	YX NI UI N/AI	
	CR 486256 – 1 o support to 1-SW- solid (satisfactor	f 4 anchor bolts (Southw 288 and -289. Supports 1 y).	est corner) broke. upstream and dov	n off for pipe vnstream are		
3.	Based on a visua raceways and HV seismic condition conditions of cab	l inspection from the floo /AC ducting appear to bo ns (e.g., condition of sup le trays appear to be insi	or, do the cable/co e free of potential ports is adequate de acceptable lim	onduit ly adverse and fill its)?	Y⊠ N□ U□ N/A□	
4.	Does it appear th interactions with lighting)?	at the area is free of pote other equipment in the a	entially adverse se rrea (e.g., ceiling	eismic spatial tiles and	Y⊠ N□ U□ N/A□	
5.	Does it appear th interactions that	at the area is free of pote could cause flooding or s	entially adverse se spray in the area?	eismic	Y⊠ N□ U□ N/A□	

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-021</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?
 1-SW-P-1A and -1B engine concrete pedestals have been previously reported for cracked/spalled concrete. Reference CR 018353, CR 369643, and CR 436313.

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-029, 070, 076, 089, 096

CR 486287: 1-ELT-LF-141A, both lights hanging by wires CR 486291: five of eight lights are out CR 486293: epoxy flooring is delaminating in two locations CR 486297: water standing near south door (1-BS-DR-1S20-2)

Evaluated by: Matthew Winter	Matto W	Date: <u>8/27/12</u>
Evaluated by: <i>Fllery Baker</i>	Eller Bar	Date: 8/27/12
Evaluated by. <u>Enery Build</u>		

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-022</u>

	Status Y⊠ N□ U□
Location: Bldg. SFGD Floor El. 12' Room, Area UI RS/SI H	PUMP AREA
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Area Walk-By near space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other	one or more SWEL items. The of judgments and findings.
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?	nt 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)?	al 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 # <u>SP1-WB-022</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-030, 031

Evaluated by: Ellery Baker	Date: 8/22/12
Evaluated by: William Gallagher, Sr. Wald	Date: 8/22/12

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-024</u>

					State	ıs Y⊠ N□ U□
Location	Bldg. <u>MSVH</u>	Floor El. <u>40</u> '	_ Room, Area	GA/5.6	······································	
Instructions for Completing Checklist This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments						
1. D po oj	oes anchorage of e otentially adverse s pening cabinets)?	quipment in the area ap eismic conditions (if vi	pear to be free sible without no	of eccessarily	YX ND (J N/A
2. D de	oes anchorage of e egraded conditions	quipment in the area ap ?	pear to be free	of significant	Y⊠ N⊟ I	U[] N/A[]
3. B rz se	ased on a visual in aceways and HVA0 eismic conditions (onditions of cable t	spection from the floor, C ducting appear to be f e.g., condition of suppo rays appear to be inside	do the cable/co ree of potential rts is adequate acceptable lim	onduit ly adverse and fill iits)?	YX ND 1	U[] N/A[]
4. D ir li	ooes it appear that t ateractions with oth ghting)?	he area is free of potent her equipment in the are	tially adverse so a (e.g., ceiling	eismic spatial tiles and	Y⊠ N□	U[] N/A[]
5. I ii	Ooes it appear that t nteractions that cou	he area is free of poten ld cause flooding or sp	tially adverse so ray in the area?	eismic	Y⊠ N□	U[] N/A[]

Area Walk-By Checklist (AWC)

AWC # SP1-WB-024

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-037

Evaluated by: <i>Larry Cullivan</i>	Houllion p.		_ Date:	8/23/12
Products they Know McChine	KM11	~	Data	0/32/12
Evaluated by: <u>Kevin McGuire</u>	17/11/8		_ Date:	<u>8/23/12</u>

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-026</u>

	Status Y⊠ N□ U□
Location: Bldg. <u>SERVICE</u> Floor El. <u>42</u> ' Room, Area <u>MER 1</u>	
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Area Walk-By near on space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other co	e or more SWEL items. The judgments and findings. omments.
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	YX NO UO N/AO
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 # <u>SP1-WB-026</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-042, 052, 053

Evaluated by: Larry Cullivan	Alballion gr.	Date:	<u>8/23/12</u>
Evaluated by: <u>Kevin McGuire</u>	K-M:A-	Date:	<u>8/23/12</u>

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-030</u>

	Status Y⊠ N□ U□				
Location: Bldg. <u>TURB</u> Floor El. <u>9'</u> Room, Area <u>U1 CONDEN</u>	VSER AREA				
Instructions for Completing Checklist This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.					
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	YX NI UI N/AI				
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)? Note: CR 485536 - too far between supports for conduit on south wall condenser inlet pit, 14' for 1" to 1 ¼" conduit at waterbox 1B (1-CW-LS-106B3, etc) access platform. Add support as appropriate. CR 485554 - also conduit on condenser under 1C inlet for 1-CW-LS-107B1 is loose, tighten and support CR 485567 - hanger clamp loose for 1 ¼" conduit, 8' west of valve SW-100A. Tighten as appropriate. CR 485753 - hanger clamp loose for 2 ½" conduit, north of valve SW-100A. Tighten as appropriate. All above are determined not to be a seismic concern. 	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? CR 485569 – bottom bolts for access ladder from Elevation 10' to the Amertap pit has loose bolts CR 485552 – loose floor bolt on 1-CW-SHLD-106B1 north panel, no significant challenge to function, tighten or replace as appropriate.	Y⊠ N□ U□ N/A□				

;

	Area Walk-By Checklist (AWC)	
AWC	# <u>SP1-WB-030</u>	
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?	YX NI UI
Comr	nents (Additional pages may be added as necessary)	
	Associated Seismic Walkdown Checklists: SP1-WD-SWEL-048, 049, 050	
	Drawings 11448-FC-2C and 11548-FC-2F	
	CR 485559: 1-CW-25 through wall leak at bottom of valve on condense. CR 485560: 1-CW-116 crack in pipe on upstream side of valve CR 485566: Potential groundwater leakage at 1-CW-1A discharge pipe Amertap pit in wall 2 o'clock (facing north) CR 485556: unterminated wires east wall of condenser inlet pit	r side (upstream) to concrete wall in pit,
Evalu	ated by: Tim Wattleworth Somoly Aluat	Date: <u>8/21/12</u>
Evalu	ated by: Matthew Winter Matto W.	Date: <u>8/21/12</u>

Area Walk-By Checklist (AWC)

G

AWC # <u>SP1-WB-031</u>	
	л., хужид ътрича у униц
Location: Bldg. <u>TURB</u> Floor El. <u>9'</u> Room, Area <u>UI SW Pit (W</u>	Yest)
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Area Walk-By near one space below each of the following questions may be used to record the results of j Additional space is provided at the end of this checklist for documenting other co	e or more SWEL items. The judgments and findings. mments.
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)? Note: Grating panel east of entrance, 1 of 3 clips loose; north of entrance, 1 of 4 clips loose. Not seismically challenged. CR 485518 	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 # SP1-WB-031

- 6. Does it appear that the area is free of potentially adverse seismic YX NO UO N/AO interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

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

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-051 SP1-WD-SWEL-004

Reference Drawing 11448-FC-2C

Evaluated by: <u><i>Tim Wattleworth</i></u>	Mustin Shink	Date: <u>8/21/12</u>
Evaluated by: Matthew Winter	Matt W	Date: <u>8/21/12</u>

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-034</u>								
					Status Y			
Locatio	on: Bldg. <u>AUX</u>	Floor El. <u>47</u> '	Room, Area	UI_AB				
Instru	ctions for Completin	ng 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 e potentially adverse s opening cabinets)?	equipment in the area seismic conditions (if	appear to be free over the tree of the tre	of ecessarily	Y⊠ N□ U□	N/A		
2.	Does anchorage of e degraded conditions	equipment in the area	appear to be free	of significant	Y⊠ N⊟ U⊟	N/A		
3.	Based on a visual in raceways and HVA seismic conditions (conditions of cable	espection from the flo C ducting appear to b (e.g., condition of sup trays appear to be inst	or, do the cable/co e free of potential ports is adequate a ide acceptable lim	onduit ly adverse and fill its)?	Y⊠ N⊡ U⊡	N/A		
4.	Does it appear that interactions with other lighting)?	the area is free of poto her equipment in the a	entially adverse se area (e.g., ceiling t	ismic spatial iles and	YM NO UO	N/A		
5.	Does it appear that interactions that con	the area is free of pote ald cause flooding or	entially adverse se spray in the area?	eismic	Y⊠ N□ U□	N/A		

Area Walk-By Checklist (AWC)

AWC # SP1-WB-034

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

YN NO UN N/AO

YX NO UN N/AD

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

KM

YN ND UD

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-057, 058

Evaluated by: Larry Cullivan	Alloulton h.	Date: 8/24/12
· ·		
	•	

Evaluated by: Kevin McGuire

Date: 8/24/12
Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-035</u>

						Status Y	U
Locatio	on: Bldg. <u>YARD</u>	_ Floor El. <u>27'</u>	Room, Area	<u>UI RWST ARI</u>	EA		
Instru	ctions for Completin	g Checklist	····· ·				
This ch space b Additio	necklist shall be used t below each of the follo onal space is provided	o document the result wing questions may at the end of this ch	lts of the Area Wa be used to record ecklist for docume	alk-By near one the results of j enting other co	e or m udgm mmen	ore SWEI ents and f tts.	L items. The indings.
1.	Does anchorage of eq potentially adverse se opening cabinets)?	uipment in the area a sismic conditions (if	appear to be free over the second sec	of xessarily	YX		N/A
2.	Does anchorage of ed degraded conditions?	uipment in the area	appear to be free	of significant	Υ⊠		N/A
3.	Based on a visual ins raceways and HVAC seismic conditions (e conditions of cable tr	pection from the floo ducting appear to be .g., condition of sup rays appear to be insi	or, do the cable/cc e free of potential ports is adequate a de acceptable lim	onduit ly adverse and fill its)?	Υ□	םט םא	N/A
4.	Does it appear that the interactions with other lighting)?	ne area is free of pote er equipment in the a	ntially adverse se rea (e.g., ceiling t	ismic spatial iles and	Υ⊠		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□

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # SP1-WB-035

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-061, 079, 087

Evaluated by: Larry Cullivan	Alballion M.	_ Date:	8/21/12
Evaluated by: <u>Kevin McGuire</u>	KMIJ	_ Date:	8/21/12

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-038</u>

			Status	
Location: Bldg. <u>SERVICE</u> Floor El. <u>27'</u>	Room, Area	MCR COMPU	TER ROOM #	<u>1</u>
Instructions for Completing Checklist				
This checklist shall be used to document the result space below each of the following questions may Additional space is provided at the end of this che	ts of the Area Wa be used to record ecklist for docum	alk-By near one I the results of j enting other cor	or more SWE udgments and nments.	L items. The findings.
 Does anchorage of equipment in the area potentially adverse seismic conditions (if opening cabinets)? 	appear to be free visible without no	of ecessarily	YM NO UC] N/A[]
2. Does anchorage of equipment in the area degraded conditions?	appear to be free	of significant	YM NE UE] N/A
3. Based on a visual inspection from the floo raceways and HVAC ducting appear to be seismic conditions (e.g., condition of sup conditions of cable trays appear to be insi	or, do the cable/co e free of potential ports is adequate de acceptable lim	onduit ly adverse and fill iits)?	Y⊠ N⊟ UE] N/A
 4. Does it appear that the area is free of poter interactions with other equipment in the a lighting)? -Drop ceiling in the overhead in the Compacceptable since there are no seismically 	ntially adverse se rea (e.g., ceiling puter Room. This sensitive targets.	eismic spatial tiles and <i>is</i>	YM ND UC] N/A
5. Does it appear that the area is free of pote interactions that could cause flooding or a	entially adverse so spray in the area?	eismic] N/A

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-038</u>

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

YX NO UO N/AO

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

- Mobile cart with printer and monitor to east of 1-R1-CAB-1-1. Potential seismic housekeeping issue →subsequent research shows that the Hathaway cabinets are non-safety, non-seismic. Since the Hathaway cabinet (1-R1-CAB-1-1) is non-safety, nonseismic, there are no seismic housekeeping concerns.
- 2) Computer desk with printers and monitor in computer room on west side is sufficiently clear of potentially seismically sensitive targets.
- Equipment rack in North-East corner of computer room has unsecured laptop and router that could fall → no seismic sensitive items as targets, therefore, acceptable.

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-069, 073

Evaluated by: <u>Daniel J. Vasquez</u>		Date:	8/23/12
Evaluated by: <u>David Germano</u>	David Dermano	Date:	8/23/12

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-039</u>

<u></u>		····			·	Stat	us Y🛛 N🗆 I	ЪП
Locatio	on: Bldg	g. <u>SERVICE</u>	Floor El. <u>9'-6''</u>	🔄 Room, Area	<u>UI SERVICE</u>	Near 1-VS-	AC-7	-
Instruc	ctions fo	or Completing	checklist					
This ch space b Additic	ecklist s elow ea onal spac	shall be used to ch of the follo ce is provided	o document the resul wing questions may at the end of this cho	ts of the Area W be used to record ecklist for docum	alk-By near on the results of enting other co	e or more S judgments a omments.	WEL items. Th nd findings.	e
1.	Does ar potentia opening	achorage of equily adverse set cabinets)?	uipment in the area a ismic conditions (if	appear to be free visible without n	of ecessarily	YX ND I	U N/A	
2.	Does ar degrade	nchorage of eq ed conditions?	uipment in the area a	appear to be free	of significant	Y⊠ N□	U N/A	
	1)	Baseplate for anchor bolt a	1-EPL-BCR-150 an nd NE bolt. Accepta	d -151 shimmed ble.	below SE			
3.	Based or raceway seismic conditio	on a visual insp ys and HVAC conditions (e. ons of cable tra	bection from the floo ducting appear to be g., condition of supp ays appear to be insid	or, do the cable/co free of potential ports is adequate de acceptable lin	onduit ly adverse and fill uits)?	Y⊠ N⊟	U N/A	
4.	Does it interact lighting	appear that th ions with othe y)?	e area is free of pote r equipment in the a	ntially adverse so rea (e.g., ceiling	eismic spatial tiles and	YX N	U_ N/A_	
	1)	Cable tray al USI A-46 SE	ong west side of 1-V WS.	S-AC-6 close to a	unit noted in			
	2)	Fluorescent l was addresse be a seismic	ighting throughout r d during USI A-46/ concern.	oom. Fluorescer IPEEE and conc	t lighting luded not to			
	-3)	Unit 1 EHC \rightarrow potential solution overhead FP	Cabinet to east of 1 seismic interactions line.	EP-CS-100 – doc with 1-EP-CS-10	or not secured 0 and			
		Discussed iss 486390.	ue with Operations	and I&C, submit	ted CR		x	
5.	Does it interac <i>-Halon</i>	appear that th tions that could lines well sup	e area is free of pote d cause flooding or s ported.	entially adverse s spray in the area?	eismic	YØ ND	U N/A	
	-Halon	lines well sup	ported.					

Page 2 of 2

Y⊠ N□ U□ N/A□

Area Walk-By Checklist (AWC)

AWC # SP1-WB-039

- 6. Does it appear that the area is free of potentially adverse seismic YX NI UNAI interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
 - 1) Monitor/keyboard for ESOMS kiosk 14 resting atop telecom cabinet \rightarrow no sensitive targets. Acceptable
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-060, 091

-Hair line cracking in dividing wall between 1-VS-AC-6 and 1J switchgear. Superficial only. Acceptable.

Evaluated by: <u>Daniel J. Vasquez</u>	\sim	Date:	8/20/12
Evaluated by: <i>David Germano</i>	David Garmane	_ Date:	8/20/12

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-040</u>

、 					Sta	tus Y🛛 N🗌 U
Location: Bldg. SE	<u>RVICE</u> Floor E	1. <u>27'</u>	Room, Area	<u>U1 SERVICE</u>	(Unit 1 AC	Room)
Instructions for Co This checklist shall space below each o Additional space is	be used to docume the following que provided at the end	ist ent the results o estions may be d of this check	of the Area Wa used to record list for docum	alk-By near one the results of enting other co	e or more S judgments : mments.	WEL items. The and findings.
1. Does anchor potentially a opening cab	rage of equipment dverse seismic con inets)?	in the area app aditions (if vis	ear to be free ible without no	of xcessarily	YX N	
2. Does ancho degraded co Baseplate fo between pla	rage of equipment nditions? or pipe support on te and wall $\rightarrow < \frac{1}{2}$	in the area app north wall beh 4" therefore ac	bear to be free and 1-VS-AC- cceptable per o	of significant 2 has gap GIP	Y⊠ N⊟	U N/A
3. Based on a raceways ar seismic con conditions o Duct suppo Both Seismi adequate to	visual inspection find the HVAC ducting ditions (e.g., condi- of cable trays appe- tr above 1-VS-AC- ic Walkdown Engin support duct work	rom the floor, appear to be fr tion of suppor ar to be inside 2 has threaded neers (SWEs) a t	do the cable/co ee of potential ts is adequate acceptable lim d rod that is ou agree that supp	onduit ly adverse and fill uits)? ut-of-plumb. port remains	Y⊠N□	U N/A
 4. Does it app interactions lighting)? Overhead fr. → not a set 	ear that the area is with other equipm luorescent lighting smic concern	free of potenti nent in the area was addressed	ally adverse so a (e.g., ceiling d during USI 2	eismic spatial tiles and 4- <i>46/ IPEEE</i>	Y⊠ N□	U N/A
5. Does it app interactions	ear that the area is that could cause f	free of potenti looding or spra	ally adverse so ay in the area?	eismic	Y⊠ N⊟	U[] N/A[]

Area Walk-By Checklist (AWC)							
AWC # <u>SP1-WB-040</u>							
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? 1) 1-VS-FE-101 → corroded bolting on flow element. Also, corroded bolting on pipe support upstream of FE. 2) Corrosion on 1-VS-217 	YM NO UO						
Condition Reports: CR 485515 submitted to address the corroded bolting on the flow element; CR 486151 submitted to address the corroded bolting on the pipe support; and CR 486154 submitted to address the corrosion on 1-VS-217.	· .						
<u>Comments (Additional pages may be added as necessary)</u>							
Associated Seismic Walkdown Checklists: SP1-WD-SWEL-059, 092							
\sim							
Evaluated by: <u>Daniel J. Vasquez</u>	_ Date: <u>8/21/12</u>						
Evaluated by: David Germano	Date: <u>8/21/12</u>						

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-041</u>

	,													Stat	us Y	⊠ N□	U□
Locatio	on: I	3ldg.	YARD	1	Floor	El.	<u>27'</u>		Roc	om, Are	ea	UI ECST AR	EA				
Instruc This ch space b Additio	eckl eckl elov	ist sh ist sh v eacl space	Comp all be u h of the is prov	oleting used to follow vided a	Check docum wing qu at the e	clist nent uesti nd c	the r ions r	results nay be	of the e used klist f	e Area l to reco for docu	Wa ord ime	lk-By near on the results of enting other co	ne or n judgn	nore S nents a nts.	WEL and fi	items. T ndings.	`he
1.	Doe pote oper	s anc ntiall ning (horage ly adve cabinet	of equ rse sei s)?	uipmen smic co	t in ondi	the a	rea ap (if vi	pear t sible	to be fro without	ee c	of cessarily	Υ⊠	N	U	N/A	
2.	Doe degi	s and	chorage l condit	e of equ tions?	upmen	ıt in	the a	rea ap	opear t	to be fro	ee o	of significant	Υ⊠	N□	U	N/A	
3.	Bas race seis cone	ed or ways mic c ditior	a visu and H conditions of ca	al insp IVAC o ons (e.g able tra	ection ducting g., cond ys app	fron g apj ditio ear	n the pear t on of to be	floor, to be f suppo inside	, do th free of orts is e acce	ne cable f potent adequa ptable l	/co iall te a imi	nduit y adverse nd fill its)?	Υ⊠	N□	U	N/A	
4.	Doe inte ligh	es it a ractio ting)	oppear t ons wit ?	that the	e area i r equip	s fre	ee of j nt in t	potent he are	tially : a (e.g	adverse g., ceilir	se ng t	ismic spatial iles and	Υ⊠	N	U	N/A	
5.	Doe inte	es it a traction	appear to ons that	that the	e area i l cause	s fro floo	ee of oding	potent ; or sp:	tially ray in	adverse the are	e se a?	ismic	ΥX	IN□	υ	N/A	

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-041</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?

Y⊠ N□ U□ N/A□

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?

YX ND UD

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-078, 094

Evaluated by: <u>Larry Cullivan</u>	Allion D.	Date: <u>8/21/12</u>
Evaluated by: <u>Kevin McGuire</u>	K-MJ-	Date: <u>8/21/12</u>

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-042</u>

									Status	Υ⊠	ND UD
Locatio	on: Bldg. <u>A</u>	UX	Floor El.	<u>13'</u>	Ro	om, Area	<u>UI AB</u>				
Instru	ctions for C	Completing	Checklis	t							-
This ch space b Additio	ecklist shal elow each c onal space is	l be used to of the follow s provided a	documen wing quest at the end	t the resu tions may of this ch	lts of th be use ecklist	e Area Wa d to record for docum	alk-By nea: 1 the results enting othe	r one or n s of judgn er comme	nore SWI nents and nts.	EL iter l findir	ms. The ngs.
1.	Does ancho potentially opening cal	prage of equ adverse sei binets)?	ipment in smic cond	the area litions (if	appear visible	to be free without no	of ecessarily	Υ⊠] N/A	
2.	Does ancho degraded c	orage of eq onditions?	uipment in	the area	appear	to be free	of significa	ant Y⊠	N[] U[] N//	∧ □
3.	Based on a raceways a seismic con conditions	visual insp nd HVAC nditions (e. of cable tra	bection fro ducting ap g., condition bys appear	m the floo opear to b on of sup to be ins:	or, do tl e free o ports is ide acce	ne cable/co f potential adequate ptable lim	onduit lly adverse and fill nits)?	Υ⊠	עםא⊡ ע] N/2	A 🗌
4.	Does it app interaction lighting)?	pear that th s with othe	e area is fr r equipme	ee of pote nt in the a	entially area (e.;	adverse se 3., ceiling	eismic spat tiles and	ial Y⊠	ט ⊡מ	D N/.	A
5.	Does it appinteraction	pear that th is that could	e area is fr l cause flo	ree of pot oding or	entially spray ir	adverse so the area?	eismic	Υ⊠	N□ U	□ N/	A

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Rep	oort Appendix E Page E-61 Page 2 of 2
Area Walk-By Checklist (AWC)	
AWC # <u>SP1-WB-042</u>	
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□
<u>Comments (</u> Additional pages may be added as necessary) Associated Seismic Walkdown Checklists: SP1-WD-SWEL-080, 085, 086	
Evaluated by: <u>Ellery Baker</u> Evaluated by: <u>William Gallagher, Sr. W. H. Galego</u>	Date: <u>8/24/12</u> Date: <u>8/24/12</u>

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-045</u>

	Status Y⊠ N□ U□
Location: Bldg. <u>TURB</u> Floor El. <u>9'</u> Room, Area <u>CC HX AREA</u>	1
Instructions for Completing Checklist This checklist shall be used to document the results of the Area Walk-By near or space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other co	e or more SWEL items. The judgments and findings. 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)? -Noted a 1" pipe rod hanger unattached above 1-CC-E-1A. The supports upstream and downstream of this location are adequately supporting the pipe. CR485535 submitted to re-attach hanger. -Noted a 1" pipe support missing U-bolt above 1-CC-E-1B. The support is providing adequate vertical support at this location and is not a seismic concern. CR485533 submitted to re-install U-bolt to hanger.	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 # <u>SP1-WB-045</u>				
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?	YX NO UO			
Comments (Additional pages may be added as necessary)				
Associated Seismic Walkdown Checklists: SP1-WD-SWEL-093	• •			
CR 485544 Loose bolt on Platform (West end) to access 1-CC-E-1A at N CR 485540 FME concern open vents CR 485527 Conduit Clamps unattached on vertical run of conduit above	NE leg 2 1-CC-E-1C			
Evaluated by: Tim Wattleworth Semola Rund	Date: <u>8/21/12</u>			
Evaluated by: Matthew Winter	Date: <u>8/21/12</u>			

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-047</u>

	Status Y⊠ N□ U□			
Location: Bldg. <u>SERVICE</u> Floor El. <u>9'-6"</u> Room, Area <u>UI BATTER</u>	Y ROOM A			
Instructions for Completing Checklist This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments				
 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?	YM NO UO N/AO			

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-047</u>

- 6. Does it appear that the area is free of potentially adverse seismic YX N UNAD interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could YX N U U adversely affect the safety functions of the equipment in the area?

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-072

Evaluated by: <u><i>Tim Wattleworth</i></u>	Semalty Stuat	Date: 8/23/12
Evaluated by: <i>Matthew Winter</i>	Math W>	Date: 8/23/12
· · · · · · · · · · · · · · · · · · ·		······································

Area Walk-By Checklist (AWC)

AWC # SP1-WB-048

			·		
				Statu	s Y⊠ N□ U□
Location: Bldg. CSPH	Floor El. <u>27'</u>	Room, Area	<u>UI CSPH</u>		
Instructions for Complet	ing Checklist	<u> </u>			
This checklist shall be use space below each of the for Additional space is provid	d to document the resulution of the second s	ts of the Area Wa be used to record ecklist for docume	alk-By near on the results of enting other co	e or more SW judgments an omments.	/EL items. The id findings.
 Does anchorage of potentially adverse opening cabinets)? 	equipment in the area a seismic conditions (if	appear to be free over the second sec	of ecessarily	Y⊠ N⊟ U	
2. Does anchorage of degraded condition	equipment in the area as?	appear to be free	of significant	YX ND U	J N/A
3. Based on a visual raceways and HV seismic conditions conditions of cable	inspection from the floo AC ducting appear to be (e.g., condition of supper trays appear to be insi	or, do the cable/co e free of potential ports is adequate a de acceptable lim	onduit ly adverse and fill uits)?	Y⊠ N⊟ U	J_ N/A
4. Does it appear tha interactions with c lighting)?	t the area is free of pote other equipment in the a	ntially adverse se rea (e.g., ceiling t	eismic spatial tiles and	Y⊠ N⊟ (U ⊡ N/A⊡ .
5. Does it appear tha interactions that c	t the area is free of pote ould cause flooding or a	entially adverse se spray in the area?	eismic	YX ND I	U N/A

Area Walk-By Checklist (AWC)

AWC # <u>SP1-WB-048</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-022

Evaluated by: Larry Cullivan Handworp.	Date: <u>8/24/12</u>
Evaluated by: Kevin McGuire K-M'A-	Date: <u>8/24/12</u>

Appendix F

Unit 2 Area Walk-by Checklists

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-001</u>	
	Status Y⊠ N□ U□
Location: Bldg. <u>AUX</u> Floor El. <u>2'</u> Room, Area <u>U2 CHPUM</u>	P CUBICLE C
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Area Walk-By near on space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other co	e or more SWEL items. The judgments and findings. pomments.
 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 # <u>SP2-WB-001</u>

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

YX NO UO N/AO

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

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-001

11	~ 100	
Evaluated by: William Gallagher, Sr.	elian Mailly Date:	8/23/12
Evaluated by: Ellery Baker	Date:	8/23/12

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-002</u>

Status Y⊠ N□ U□

Location:	Bldg.	TURB	Floor El.	9'	Room, Area	U2 SW PIT (WEST SIDE)
				Provide and the second second second second second		

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□

AWC # <u>SP2-WB-002</u>

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

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

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-002, 050

CR 485960: Replace sealant at ground wire penetration in east wall, south side, mid height (2-SW-MOV-201B) and west wall south side, mid height. Not significant flood concern.

Evaluated by: <u>Matthew Winter</u>	Matto D.	Date:	8/23/12
Evaluated by: <u>Tim Wattleworth</u>	Meto W. For T.W. per takew.	Date:	8/23/12

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-004</u>

Status Y⊠ N□ U□

Location: Bldg. <u>MSVH</u> Floor El. <u>27'-6"</u> Room, Area <u>U2 AFW PUMP AREA</u>

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.

 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□

Surry Power Station	NTTF 2.3 Seismic Walkdown Summary Rep	ort Appendix F Page F-7 Page 2 of 2
Area	Valk-By Checklist (AWC)	
AWC # <u>SP2-WB-004</u>		
6. Does it appear that the area is free of interactions that could cause a fire in	potentially adverse seismic the area?	YX NI UI N/AI
7. Does it appear that the area is free of interactions associated with houseke equipment, and temporary installation shielding)?	potentially adverse seismic eping practices, storage of portable ns (e.g., scaffolding, lead	Y⊠ N□ U□ N/A□
8. Have you looked for and found no o	ther seismic conditions that could	
Comments (Additional pages may be added as	necessary)	
Associated Seismic Walkdown Check SP2-WD-SWEL-006, 008, 018, 019,	031, 034, 098 [.]	
Noted WR Tag hung at 2-MS-PCV-2 WO 38103082383 1 bolt on "A" dej	202B (ref CR 463734) Sicient	
Evaluated by: <u>Ellery Baker</u>	Hay re-	Date: <u>8/21/12</u>
Evaluated by: <u>William Gallagher, Sr. (</u> //	unam wally	Date: <u>8/21/12</u>

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-006</u>

Status Y⊠ N□ U□

Location: Bldg. <u>AUX</u> Floor El. <u>15</u>' Room, Area <u>U2 CABLE VAULT</u>

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)? -Anchor bolt missing from cable tray support in the North-East corner of the U2 cable vault (Penetration 1E). CR 485708 submitted.	Y⊠ N□ U□ N/A□
2.	Does anchorage of equipment in the area appear to be free of significant degraded conditions? -Cable tray CR1 has missing washer at one support. This is minor and is not a seismic concern.	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)? -Fluorescent lighting was evaluated during USI A-46/ IPEEE and determined not to be a seismic concern.	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? -Fire protection line to North-East of 2-EP-MCC-2H1-2N has long unsupported span. Refer to SP2-WD-SWEL-009 for disposition.	Y⊠ N□ U□ N/A□

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-006</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-009, 092

Evaluated by: <u>David Germano</u>	David Germane	Date:	8/22/12
Evaluated by: <u>Daniel J. Vasquez</u>	\mathcal{A}	Date:	8/22/12

Area Walk-By Checklist (AWC)

AWC # SP2-WB-007

Status Y⊠ N□ U□

Location: Bldg. <u>SERVICE</u> Floor El. <u>9'-6"</u> Room, Area <u>U2 BATTERY ROOM A</u>

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□

e F-10

Area Walk-By Checklist (AWC)					
AWC # <u>SP2-WB-007</u>					
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: SP2-WD-SWEL-069					
1 A 00 A					
Evaluated by: <u>Tim Wattleworth</u> Sunalh, Shal	_ Date: <u>8/23/12</u>				
Evaluated by: <u>Matthew Winter</u>	Date: <u>8/23/12</u>				

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Report Appendix F Page F-11

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-008</u>

`

	Status Y⊠ N□ U□
Location: Bldg. <u>SERVICE</u> Floor El. <u>45</u> ' Room, Area <u>U2 CABLE SI</u> <u>CUBICLE Or</u>	PREADING ROOM (RTB nly)
Instructions for Completing Checklist	
This checklist shall be used to document the results of the Area Walk-By near on space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other co	e or more SWEL items. The judgments and findings. omments.
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	YN NO UO N/AO
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 # <u>SP2-WB-008</u>

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

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

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

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-011

Evaluated by: <i>Daniel J. Vasquez</i>	A	_ Date: <u>8/22/2012</u>
Evaluated by: <u>David Germano</u>	David Germano	_ Date: <u>8/22/2012</u>

Status Y⊠ N□ U□

Area Walk-By Checklist (AWC)

AWC # SP2-WB-010	
-------------------------	--

Location	: Bldg. <u>AUX</u>	Floor El. <u>2'</u>	Room, Area	<u>U2 CH PUM</u>	P CUBICLE A	· · · · · · · · · · · · · · · · · · ·
Instruct	ions for Completir	ng Checklist				
This che space be Addition	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. D p o	Ooes anchorage of e otentially adverse s pening cabinets)?	quipment in the area app eismic conditions (if vis	ear to be free o ible without ne	of xessarily] N/A
2. E d	Does anchorage of e legraded conditions	quipment in the area app ?	bear to be free	of significant	Y⊠ N⊟ U	□ N/A□
3. E r s c	Based on a visual in aceways and HVA(eismic conditions (conditions of cable t	spection from the floor, C ducting appear to be fr e.g., condition of suppor rays appear to be inside	do the cable/cc ee of potential ts is adequate a acceptable lim	onduit ly adverse and fill its)?	Y⊠ N⊟ U	□ N/A□
4. I i 1	Does it appear that t nteractions with oth ighting)?	he area is free of potentiner equipment in the area	ally adverse se a (e.g., ceiling t	eismic spatial tiles and	Y⊠ N⊟ U	□ N/A□
5. I i	Does it appear that t nteractions that cou	the area is free of potent: Ild cause flooding or spr	ally adverse se ay in the area?	eismic	Y⊠ N⊟ U	∬_ N/A

	Fage 2 01 2
Area Walk-By Checklist (AWC)	
AWC # SP2-WB-010	
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	Y⊠ N⊡ U□ N/A□
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?	Y⊠ N⊡ U⊡ N/A⊡
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	YM NO UO
<u>Comments (Additional pages may be added as necessary)</u>	
Associated Seismic Walkdown Checklists: SP2-WD-SWEL-016, 043	
Evaluated by: <u>Ellery Baker</u> Evaluated by: <u>William Gallagher, Sr. Uilluur Suffe</u>	_ Date: <u>8/23/12</u>

Area Walk-By Checklist (AWC)

AWC # SP2-WB-011

Location: Bldg. AUX

Instructions for Completing Checklist

opening cabinets)?

lighting)?

Status YX N U Room, Area BAST AREA 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 YX NO UO N/AO potentially adverse seismic conditions (if visible without necessarily

- 2. Does anchorage of equipment in the area appear to be free of significant $Y \boxtimes N \square U \square N/A \square$ degraded conditions?
- 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)?

Floor El. 13'

YX NO UO N/AO

- 4. Does it appear that the area is free of potentially adverse seismic spatial $Y \boxtimes N \square U \square N/A \square$ interactions with other equipment in the area (e.g., ceiling tiles and
- 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area?

YX NI UI N/AI

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Repo	rt Appendix F Page F-17 Page 2 of 2							
Area Walk-By Checklist (AWC)								
AWC # SP2-WB-011								
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area?	YX NI UI N/AI							
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?	YM NO UO							
Comments (Additional pages may be added as necessary)								
Associated Seismic Walkdown Checklists: SP2-WD-SWEL-017, 082, 088, 089								
Evaluated by: <u>Ellery Baker</u>	Date: <u>8/24/12</u>							
Evaluated by: William Gallagher, Sr UM Salfh S-	Date: <u>8/24/12</u>							
~ 0								

•

•

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-013</u>

					Sta	tus Y⊠ N□ (лП
Locatio	on: Bldg. <u>CSPH</u>	Floor El. <u>11</u> ′	Room, Area	U2 SFGD		·····	•
Instrue This ch space b Additic	ctions for Comple ecklist shall be use elow each of the fo onal space is provid	ting Checklist ed to document the resul ollowing questions may led at the end of this cho	ts of the Area Wa be used to record ecklist for docum	alk-By near on I the results of enting other co	e or more S judgments omments.	SWEL items. Th and findings.	e
1.	Does anchorage of potentially adverse opening cabinets)	f equipment in the area a e seismic conditions (if ?	appear to be free visible without ne	of ecessarily	YM N	U N/A	
2.	Does anchorage o degraded conditio	f equipment in the area ans?	appear to be free	of significant	Y⊠ N□	U N/A	
3.	Based on a visual raceways and HV seismic condition conditions of cabl	inspection from the floo AC ducting appear to be s (e.g., condition of sup e trays appear to be insi	or, do the cable/co e free of potential ports is adequate a de acceptable lim	onduit ly adverse and fill its)?	Y⊠N⊡	U N/A	
4.	Does it appear that interactions with a lighting)?	t the area is free of pote other equipment in the a	ntially adverse se rea (e.g., ceiling	tismic spatial tiles and	Y⊠N⊡	U N/A	
5.	Does it appear that interactions that c	It the area is free of pote ould cause flooding or s	entially adverse se spray in the area?	eismic	Y⊠ N□	U N/A	
Page F-19 Page **2** of **2**

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-013</u>

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

 $Y \boxtimes N \square U \square N/A \square$

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

YX ND UD

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-021, 045, 061

Evaluated by: Larry Cullivan	Abullion n.	Date:	8/22/12
Evaluated by: <u>Kevin McGuire</u>	Kmif	Date:	8/22/12

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-014</u>

	Status Y⊠ N□ U□
Location: Bldg. <u>SERVICE</u> Floor El. <u>9'</u> Room, Area <u>MER 4</u>	
Instructions for Completing Checklist This checklist shall be used to document the results of the Area Walk-By near or space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other c	ne or more SWEL items. The fjudgments and findings. omments.
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□
 Does anchorage of equipment in the area appear to be free of significant degraded conditions? All anchors were previously tested per ET-S-0070020. 	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□

AWC # <u>SP2-WB-014</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-024, 042, 083

Evaluated by: <u>Larry Cullivan</u>	Allion J.	Date:	<u>8/29/2012</u>
Evaluated by: <u>David Germano</u>	David Germans	Date:	<u>8/29/2012</u>

AWC # <u>SP2-WB-015</u>

Status Y⊠ N□ U□

Location: Bldg. SFGD Floor El. 12' Room, Area U2 RS/SI PUMP AREA	
--	--

Instructions for Completing Checklist

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)? See Comments section below	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⊡

AWC # <u>SP2-WB-015</u>

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? See Comments section below.	YM UD

Comments (Additional pages may be added as necessary)

The SI piping to the seal head tank through 2-SI-201 at 02-SI-P-1A and 2-SI-205 at 2-SI-P-1B is attached to the Reactor Containment wall at one point and the Safeguards Building at all other building attachment supports. The piping transitions to ½" diameter tubing between the ¾" piping and the pump. As a result there is adequate flexibility between the Containment Building and the SI Pump and associated inlet and outlet piping supported on the Safeguards Building. The Containment Building and Safeguards Building supported piping adequately provides for the relative displacement between the two buildings which is not expected to exceed ½" at this point.

The 02-RS-P-2B pump is supported laterally through a vibration control ring to a Containment Building wall mounted support through friction pads (i.e., non linear support). While the pads are fully engaged, there is no relative movement between the Containment Building and pump through the seal head tank. The concrete contact point on 02-RS-TK-2B is on a small tank flange point that is tangent to the Containment Building wall. As a result, the adverse consequences of this condition is limited and not considered sufficient to result in seal head tank failure. This condition is reported in and will be fully addressed in the corrective actions for CR 485627.

Heat tracing flexible conduit at 02-RS-P-2B is not well connected to the rigid conduit. There is no added stress on the enclosed cable. This condition does not affect the function of the heat tracing. CR486224 was submitted to document this condition.

CR460224 was submitted to document this condition.	
In tollit	
Evaluated by: <u>William Gallagher, Sr. (NV, 94)</u>	Date: <u>8/21/12</u>
FILL -	
Evaluated by: <u>Ellery Baker</u>	Date: <u>8/21/12</u>

Status Y⊠ N□ U□

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. 2' Room, Area PENETRATION AREA

AWC # <u>SP2-WB-019</u>

Instructions for Completing Checklist	
This checklist shall be used to document the results of the Area Walk-By near on space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other co	e or more SWEL items. The judgments and findings.
 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 YX NO UO N/AO interactions that could cause flooding or spray in the area?

AWC # <u>SP2-WB-019</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-036, 038, 075, 087

Abandoned argon pipe system maintains position based on continuity through overhead rigid supports \rightarrow not a seismic concern. CR 485970 was written to document argon piping in overhead supported on non standard supports for both units.

•

Evaluated by: Ellery Baker	Ella 12 1 0	Date: 8/24/12
Evaluated by: William Gallagher, Sr.	Macht	Date: 8/24/12

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-020</u>

				Stat	us Y⊠ N□ U□
Location	n: Bldg. <u>MSVH</u>	_ Floor El. <u>40'</u>	Room, Area		
Instruc	tions for Completin	ng Checklist			
This che space be Addition	ecklist shall be used clow each of the foll- nal space is provided	to document the result owing questions may at the end of this che	ts of the Area Walk-By near or be used to record the results of cklist for documenting other c	ne or more S f judgments a comments.	WEL items. The and findings.
1. I I	Does anchorage of e potentially adverse s opening cabinets)?	quipment in the area a eismic conditions (if v	ppear to be free of isible without necessarily	YX ND	U[] N/A[]
2.]	Does anchorage of e degraded conditions	quipment in the area a ?	ppear to be free of significant	YX ND	U N/A
3. 1	Based on a visual ins raceways and HVAC seismic conditions (conditions of cable t	spection from the floo C ducting appear to be e.g., condition of supp rays appear to be insid	r, do the cable/conduit free of potentially adverse orts is adequate and fill le acceptable limits)?	Y⊠ N□	U N/A
4	Does it appear that t interactions with oth lighting)?	he area is free of poter her equipment in the ar	ntially adverse seismic spatial rea (e.g., ceiling tiles and	Y⊠ N□	U N/A
5.	Does it appear that t interactions that cou	he area is free of poten ld cause flooding or sp	ntially adverse seismic pray in the area?	Y⊠ N⊟	U N/A

AWC # SP2-WB-020

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

 $Y \boxtimes N \square U \square N/A \square$

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

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-037

Evaluated by: <u>Larry Cullivan</u>	Dollin n.	Date:	<u>8/23/12</u>
Evaluated by: <u>Kevin McGuire</u>	KM:A-	_ Date:	8/23/12

Area Walk-By Checklist (AWC)

AWC # SP2-WB-021

Status	Y⊠	N	U

Location: Bldg. <u>SERVICE</u> Floor El. <u>42</u>' Room, Area <u>MER 2</u>

Instructions for Completing Checklist

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□

	Page 2 of 2
Area Walk-By Checklist (AWC)	
AWC # <u>SP2-WB-021</u>	· · · · ·
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?	YM NO UO
Comments (Additional pages may be added as necessary)	
Associated Seismic Walkdown Checklists:	
SP2-WD-SWEL-039, 051, 052	

Surry Power Station NTTF 2.3 Seismic Walkdown Summary Report Appendix F Page F-29

.

C Evaluated by: <u>Larry Sullivan</u>	Hlanltwn D.	_ Date: <u>8/23/12</u>
Evaluated by: <u>Kevin McGuire</u>	K-M.M-	Date: <u>8/23/12</u>

•

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-024</u>

Status Y⊠ N□ U□

Location:	Bldg.	TURB	Floor El.	9'	Room, Area	<u>U2 CONDENSER AREA</u>
-----------	-------	------	-----------	----	------------	--------------------------

Instructions for Completing Checklist

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□

Surry Power Station	NTTF 2.3 Seismic Walkdown Summary Repo	ort Appendix F Page F-31 Page 2 of 3
Area	Walk-By Checklist (AWC)	
AWC # <u>SP2-WB-024</u>		
6. Does it appear that the area is free o interactions that could cause a fire in	f potentially adverse seismic n the area?	Y⊠ N⊡ U⊡ N/A⊡
7. Does it appear that the area is free or interactions associated with housek equipment, and temporary installati shielding)?	of potentially adverse seismic eeping practices, storage of portable ons (e.g., scaffolding, lead	Y⊠ N⊡ U⊡ N/A⊡
8. Have you looked for and found no adversely affect the safety function.	other seismic conditions that could s of the equipment in the area?	YX NO UO
Comments (Additional pages may be added a	as necessary)	
Associated Seismic Walkdown Che SP2-WD-SWEL-046, 047, 048	cklists:	
Reference: drawings 11548-FC-2F	, 11448-FC-2K	
See next page for CRs.		
	for Tid san tali on	
Evaluated by: <u>Tim Wattleworth</u>	DUN THE LOC FOR TOLES	Date: <u>8/23/12</u>

Area Walk-By Checklist (AWC)

AWC # SP2-WB-028

Status Y⊠ N□ U□

Location:	Bldg.	YARD	Floor El.	27'	Room, Area	U2 RWST AREA

Instructions for Completing Checklist

· · ·	
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□

AWC # <u>SP2-WB-028</u>

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

YX NO UO N/AO

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

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-062, 078, 090, 093

Evaluated by: Larry Cullivan Alcalling	Date:	8/21/12
Evaluated by: <u>Kevin McGuire KMM</u>	Date:	8/21/12

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-029</u>

Status Y⊠ N□ U□

Location: Bldg. <u>SERVICE</u> Floor El. <u>27</u>' Room, Area <u>EDG 2 ROOM</u>

Instructions for Completing Checklist

1.	Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? -Refer to 2-EE-B-EG2 for resolution to anchor bolt issue on the southernmost baseplate (SP2-WD-SWEL-071).	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)? SA line above 2-EE-B-EG2 supported by angle braced cantilever supports and clamped with vertical lateral supports approximately 16' apart \rightarrow judged by both SWEs to be seismically adequate to support the SA line.	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)? -Large overhead lights secured to Unistrut that is rod-hung. Not a seismic concern.	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□

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # SP2-WB-029

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

-Unanchored catch container from 2-EG-2, on the floor no sensitive interaction targets nearby – no seismic concern.

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

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-074, 091, 099

-Large spall in missile shield; this was identified during maintenance rule inspections and entered into the corrective action system.

Evaluated by: <u>David Germano</u>	David Germano	Date: <u>8/24/12</u>
Evaluated by: <u>Daniel J. Vasquez</u>	8	Date: <u>8/24/12</u>

AWC # <u>SP2-WB-030</u>

Status Y⊠ N□ U□

Location: Bldg. TURB	Floor El. <u>9'</u>	Room, Area	IA COMPRESSOR AREA
----------------------	---------------------	------------	--------------------

Instructions for Completing Checklist

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)? -CR 486209 - clamp loose on 1" conduit in overhead, conduit extends to junction box with 1-IA-TV-125/126 IA Dryer, 1-IA-CP-125, 1-IA-XFMR-100, 1-IA-PS-125, 1-IA-SOV-125 and 126, 3 feet north of T50. -CR 486208 - junction box cover for 2-IA-TS-HATS and -HWTS is loose (3 of 4 bolts missing) (high air/high water) CR 486199 - conduit to 1-SA-FI-1 flow indicator has loose clamp → not a seismic concern CR 486196 - no grout pad instrument air tank 1-IA-TK-1, previously identified by CR 477338 → not a seismic concern 	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⊡

AWC # <u>SP2-WB-030</u>

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?	YX ND UD

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP1-WD-SWEL-065 SP2-WD-SWEL-064

Evaluated by: Matthew Winter	Matto D.S	Date: <u>8/24/12</u>	
Evaluated by: <u>Tim Wattleworth</u>	Matt Un for T.W. P	er tekcon Date: <u>8/24/12</u>	

AWC # <u>SP2-WB-031</u>

Status Y⊠ N□ U□

Location:	Bldg.	YARD	Floor El.	27'	Room, Area	U2 ECST AREA
		and the state of the second state of the secon		Contractor of the local data and		

Instructions for Completing Checklist

 Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Does anchorage of equipment in the area appear to be free of significant degraded conditions? Does anchorage of equipment in the area appear to be free of significant degraded conditions? 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)? 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)? Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? 		
 2. Does anchorage of equipment in the area appear to be free of significant Y⊠ N□ U□ N/A□ degraded conditions? 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)? 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)? 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? 	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□
 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)? 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)? 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? 	2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y⊠ N⊡ U⊡ N/A⊡
 4. Does it appear that the area is free of potentially adverse seismic spatial Y⊠ N□ U□ N/A□ interactions with other equipment in the area (e.g., ceiling tiles and lighting)? 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? 	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⊠
 Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause flooding or spray in the area? 	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⊡

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-031</u>

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

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

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-076, 096

Evaluated by: Larry Cullivan	Allin J.	Date: <u>8/21/12</u>
Evaluated by: <u>Kevin McGuire</u>	KMM	_ Date: <u>8/21/12</u>

AWC # <u>SP2-WB-038</u>

Status Y⊠ N□ U□

Location: Bldg. FUEL Floor El. 6' to 14' Room, Area SFP COOLER AREA

Instructions for Completing Checklist

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□
-Pipe support upstream of 1-FC-14 not tight to ceiling. Submitted CR 486528.	
-Pipe support upstream of 1-FC-4 not tight to wall (approximately ¼" to 3/8"). Second support (vert/lat) upstream of 1-FC-4. Submitted CR 486523.	
-First pipe support on EC outlet, east baseplate not tight against wall of top and bottom but is tight at middle (~3/8" gap). Submitted CR 486527.	at .
The above CRs are determined not to be a seismic concern.	
2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	nt 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)? -CR 486477 - 3" conduit support not attached to Unistrut, approximately 12' span, supported upstream and downstream of that location. 	Y⊠ N⊡ U⊡ N/A⊡
-CR 486482 – four loose ground wire clamps. Runs to 1-FC-P-3A.	
The above CRs are determined not to be a 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)?	ai 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□

AWC # SP2-WB-038

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

$Y \boxtimes N \square U \square N/A \square$

YX NO UO N/AO

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)? CR 486496 - HV-500-11 ventilation cart near north wall behind FC-148 IB is not secured to prevent tipping over during a seismic event.

1A8-1B is not secured to prevent tipping over during a seismic event. Potential interaction with 1-CC-418 and 1-CC-411

Storage of frames against north wall

The above CR is determined not to be a seismic concern.

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

Y⊠ N□ U□

<u>Comments</u> (Additional pages may be added as necessary)

Evaluated by: Daniel J. Vasquez	<u> </u>	Date:	8/29/12
Evaluated by: <u>Matthew Winter</u>	Matto W.	Date:	8/29/12

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-040</u>

Status Y⊠ N□ U□

Location: Bldg. <u>TURB</u> Floor El. <u>9'-6"</u> Room, Area <u>U2 BATTERY ROOM B</u>

Instructions for Completing Checklist

1	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	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□

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-040</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-070

Evaluated by: <u>Tim Wattleworth</u>	Smoth Sloct	Date: <u>8/23/12</u>
Evaluated by: Matthew Winter	Marto W	Date: 8/23/12

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-041</u>

Status $Y \boxtimes N \sqcup U$	
---------------------------------	--

Location: Bldg. <u>CSPH</u>	Floor El. <u>27</u> '	Room, Area	U2 CSPH
-----------------------------	-----------------------	------------	---------

Instructions for Completing Checklist

 Does anchorage of equipment in the area appe potentially adverse seismic conditions (if visib opening cabinets)? 	ar to be free of le without necessarily	Y⊠ N⊡	U N/A
2. Does anchorage of equipment in the area apped degraded conditions?	ar to be free of significant	Y⊠ N□	U N/A
 Based on a visual inspection from the floor, de raceways and HVAC ducting appear to be free seismic conditions (e.g., condition of supports conditions of cable trays appear to be inside a 	o the cable/conduit e of potentially adverse is adequate and fill ecceptable limits)?	Y⊠ N⊡	U N/A
4. Does it appear that the area is free of potential interactions with other equipment in the area lighting)?	ly adverse seismic spatial e.g., ceiling tiles and	Y⊠N⊡	U N/A
5. Does it appear that the area is free of potentia interactions that could cause flooding or spray	lly adverse seismic v in the area?	Y⊠ N□	U N/A

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # SP2-WB-041

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic YX N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-020

Evaluated by: Larry Cullivan	Alention .	Date:	8/24/12
Evaluated by: <u>Kevin McGuire</u>	15mg	Date:	8/24/12

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-042</u>

Status Y⊠ N□ U□

Location:	Bldg. <u>AB</u>	Floor El. <u>13'</u>	_ Room, Area	<u>U2</u> AB
-----------	-----------------	----------------------	--------------	--------------

Instructions for Completing Checklist

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	2. Does anchorage of equipment in the area appear to be free of significant degraded conditions?	Y⊠ N□ U□ N/A□
	8. 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	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□

Page 2 of 2

Area Walk-By Checklist (AWC)

AWC # <u>SP2-WB-042</u>

- 6. Does it appear that the area is free of potentially adverse seismic Y⊠ N□ U□ N/A□ interactions that could cause a fire in the area?
- 7. Does it appear that the area is free of potentially adverse seismic YX N□ U□ N/A□ interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)?
- 8. Have you looked for and found no other seismic conditions that could Y⊠ N□ U□ adversely affect the safety functions of the equipment in the area?

<u>Comments</u> (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists: SP2-WD-SWEL-032 SP2-WD-SWEL-035

Evaluated by: Ellery Baker	Elym-	_ Date:	8/24/12
Evaluated by: <u>William Gallagher, Sr.</u>	111 Geeps	_ Date:	8/24/12