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**River Bend Station Seismic Walkdown Report  
for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic**

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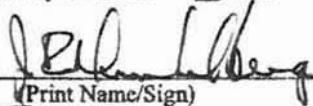
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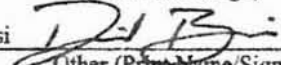
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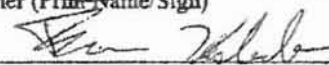
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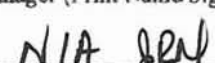
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# River Bend Station Seismic Walkdown Report

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

### TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
<b>1.0</b>	<b>SCOPE AND OBJECTIVE.....</b>	<b>3</b>
<b>2.0</b>	<b>SEISMIC LICENSING BASIS SUMMARY .....</b>	<b>4</b>
2.1	SAFE SHUTDOWN EARTHQUAKE (SSE) .....	4
2.2	DESIGN CODES, STANDARDS AND METHODS .....	4
<b>3.0</b>	<b>SEISMIC WALKDOWN PROGRAM IMPLEMENTATION APPROACH .....</b>	<b>7</b>
<b>4.0</b>	<b>PERSONNEL QUALIFICATIONS .....</b>	<b>8</b>
4.1	EQUIPMENT SELECTION PERSONNEL .....	11
4.2	SEISMIC WALKDOWN ENGINEERS.....	11
4.3	LICENSING BASIS REVIEWERS.....	11
4.4	IPEEE REVIEWERS .....	11
4.5	PEER REVIEW TEAM .....	11
<b>5.0</b>	<b>IPEEE VULNERABILITIES REPORTING .....</b>	<b>14</b>
<b>6.0</b>	<b>SEISMIC WALKDOWN EQUIPMENT LIST DEVELOPMENT .....</b>	<b>15</b>
6.1	SAMPLE OF REQUIRED ITEMS FOR THE FIVE SAFETY FUNCTIONS.....	15
6.2	SPENT FUEL POOL ITEMS .....	17
6.3	DEFERRED INACCESSIBLE ITEMS ON SWEL.....	19
<b>7.0</b>	<b>SEISMIC WALKDOWNS AND AREA WALK-BYS .....</b>	<b>21</b>
7.1	SEISMIC WALKDOWNS.....	21
7.2	AREA WALK-BYS .....	23
<b>8.0</b>	<b>LICENSING BASIS EVALUATIONS .....</b>	<b>24</b>
8.1	LICENSING BASIS EVALUATIONS .....	25
8.2	CORRECTIVE ACTION PROGRAM ENTRIES .....	25
8.3	PLANT CHANGES .....	26
<b>9.0</b>	<b>PEER REVIEW .....</b>	<b>27</b>
9.1	PEER REVIEW PROCESS .....	27
9.2	PEER REVIEW RESULTS SUMMARY .....	27
<b>10.0</b>	<b>REFERENCES .....</b>	<b>34</b>
<b>11.0</b>	<b>ATTACHMENTS .....</b>	<b>35</b>
	ATTACHMENT A – IPEEE VULNERABILITIES TABLE	
	ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS	
	ATTACHMENT C – SEISMIC WALKDOWN CHECKLISTS (SWCs)	
	ATTACHMENT D – AREA WALK-BY CHECKLISTS (AWCs)	
	ATTACHMENT E – POTENTIALLY ADVERSE SEISMIC CONDITIONS	
	ATTACHMENT F – LICENSING BASIS EVALUATION FORMS	
	ATTACHMENT G – PEER REVIEW CHECKLIST FOR SWEL	
	ATTACHMENT H – PEER REVIEW COMMENT FORM	
	ATTACHMENT I – SEISMIC WALKDOWN ENGINEER TRAINING CERTIFICATES	

## 1.0 SCOPE AND OBJECTIVE

The Great Tohoku Earthquake of March 11, 2011 and the resulting tsunami caused an accident at the Fukushima Dai-ichi nuclear power plant in Japan. In response to this accident, the Nuclear Regulatory Commission (NRC) established the Near-Term Task Force (NTTF). The NTTF was tasked with conducting a systematic and methodical review of NRC processes and regulations and determining if the agency should make additional improvements to its regulatory system. On March 12, 2012 the NRC issued a 10CFR50.54(f) Letter [Ref. 1] requesting information from all licensees to support the NRC staff's evaluation of several of the NTTF recommendations. To support NTTF 2.3 Recommendation, Enclosure 3 to the 50.54(f) Letter requested that all licensees perform seismic walkdowns to gather and report information from the plant related to degraded, non-conforming, or unanalyzed conditions with respect to its current seismic licensing basis.

The Electric Power Research Institute (EPRI), with support and direction from the Nuclear Energy Institute (NEI), published industry guidance for conducting and documenting the seismic walkdowns which represented the results of extensive interaction between NRC, NEI, and other stakeholders. This industry guidance document, EPRI Report 1025286 [Ref. 2], hereafter referred to as "the Guidance," was formally endorsed by the NRC on May 31, 2012. Entergy River Bend Station (RBS) has committed to using this NRC-endorsed guidance as the basis for conducting and documenting seismic walkdowns for resolution of NTTF Recommendation 2.3: Seismic.

The objective of this report is to document the results of the seismic walkdown effort undertaken for resolution of NTTF Recommendation 2.3: Seismic in accordance with the Guidance, and provide the information necessary for responding to Enclosure 3 to the 50.54(f) Letter.

## 2.0 SEISMIC LICENSING BASIS SUMMARY

River Bend Station (RBS) is a boiling water reactor (BWR) located in St. Francisville, LA. The Nuclear Steam Supply System (NSSS) was originally designed by GE. RBS began commercial operation in June of 1986, and is currently rated at 996 MWe power [Ref. 3]. This section summarizes the seismic licensing basis of structures, systems and components (SSCs) at RBS which bound the context of the NTTF 2.3 Seismic Walkdown program.

### 2.1 SAFE SHUTDOWN EARTHQUAKE (SSE)

The safe shutdown earthquake for the RBS is described by a Newmark / RG 1.60 spectra anchored at 0.1g peak horizontal ground acceleration and 0.1g peak vertical ground acceleration [Ref. 3].

### 2.2 DESIGN CODES, STANDARDS AND METHODS

Seismic Category I Structures are designed to the requirements of ACI 318-1971 and AISC - 1971. The Containment was designed to ASME Section III, July 1, 1974 edition. Seismic piping was designed in accordance with ASME Section III, July 1, 1974 edition and seismic electrical equipment was designed in accordance with IEEE 323-1974.

The maximum horizontal and vertical ground motion for the safe shutdown earthquake (SSE) is assumed to be 0.1g for design purposes, which is the minimum value as established by the NRC (10CFR100).

The buildings and internal structures essential to the safe operation and shutdown of the plant are designed in accordance with industry codes and NRC regulations to provide protection as required from tornadoes, earthquakes, and the failure of equipment producing flooding, missiles, and pipe whip. The plant was designed based on the NRC Standard Review Plan (SRP) and associated Regulatory Guides (RG) published after 1973.

All Seismic Category I structures are founded on dense, compacted, granular fill overlying dense, buried channel sands and gravelly sand and hard tertiary clays.

The structural responses of the reactor building and other Seismic Category I structures to the application of horizontal and vertical earthquake ground motions are determined by the response spectra modal analysis method. Seismic responses for all Seismic Category I structures are determined from an application of two orthogonal horizontal and one vertical earthquake ground motions, assumed to be acting simultaneously.



The dynamic models of Seismic Category I structures consist of systems of generalized lumped masses, each with six degrees of freedom, connected by massless, linearly elastic springs. The system is connected to the subgrade by springs derived from the soil properties. The number and location of the lumped masses in the analytical model are chosen so as to obtain a satisfactory representation of the dynamic behavior of the actual structure. In general, the lumped masses consist of the masses of the floors, walls, columns, equipment, and piping concentrated in the vicinity of the lumped mass location. The locations of these lumped masses are generally at points where there is a concentration of mass or at points where there is a special interest in the response.

The seismic motion of all Seismic Category I structures is determined by applying the earthquake ground motions at the base of the appropriate dynamic model. In general, interaction between Seismic Category I and non-Seismic Category I structures is eliminated by providing separate foundations for the structures. Also, rattle space between abutting buildings is provided so that seismic motion between buildings is unimpeded.

Amplified response spectra (ARS) are generated for all Seismic Category I structures to define the seismic environment for the subsystem analyses. ARS are defined as plots of the maximum response of a family of idealized linear single-degree-of-freedom damped oscillators as a function of period (or natural frequency) at various locations in the structure subjected to a specified acceleration time history as their support. In the analysis of subsystems which meet the requirements for decoupling, the response of the structure is independent of the properties and dynamic behavior of the subsystems. The response of the structure due to the ground acceleration can be determined, then that response is applied as support accelerations to the subsystems.

Floor response spectra method and time history method of analysis are used for the design of Seismic Category I piping and equipment. Floor response spectra are peak spread in accordance with RG 1.122.

The principal methods of documenting adequacy for Seismic Category I components are static analysis, dynamic analysis, dynamic testing and static deflection testing. These methods are used singly or in combination to qualify the equipment.

Static analysis is used for equipment that can be modeled as relatively simple structures. The type of analysis involves the multiplication of the component weights by the specified seismic accelerations to produce forces that are applied at the centers of gravity in the horizontal and vertical directions. A stress analysis of critical components, such as feet holdown bolts and other structural members, is performed to determine their adequacy. The deflections of critical components are also calculated and compared with specified

tolerances. A detailed dynamic analysis is performed when component complexity or dynamic interaction precludes static analysis or when static analysis is very conservative. Equipment that is overly complex to analyze or whose operability cannot be adequately demonstrated by analysis is qualified by dynamic testing. Testing methods conform to IEEE 344-1975, as supplemented by RG1.100.

### 3.0 SEISMIC WALKDOWN PROGRAM IMPLEMENTATION APPROACH

Entergy RBS has committed to conduct and document seismic walkdowns for resolution of NTTF Recommendation 2.3: Seismic in accordance with the EPRI Seismic Walkdown Guidance [Ref. 2]. The approach provided in the Guidance for addressing the actions and information requested in Enclosure 3 to the 50.54(f) Letter includes the following activities, the results of which are presented in the sections shown in parenthesis:

- Assignment of appropriately qualified personnel (Section 4.0)
- Reporting of actions taken to reduce or eliminate the seismic vulnerabilities identified by the Individual Plant Examination of External Events (IPEEE) program (Section 5.0)
- Selection of structures, systems and components (SSCs) evaluated (Section 6.0)
- Performance of the seismic walkdowns and area walk-bys (Section 7.0)
- Evaluation and treatment of potentially adverse seismic conditions with respect to the seismic licensing basis of the plant (Section 8.0)
- Performance of peer reviews (Section 9.0)

The coordination and conduct of these activities was initiated and tracked by Entergy corporate leadership, which provided guidance to each Entergy site throughout the seismic walkdown program, including RBS. Entergy contracted with an outside nuclear services company to provide engineering and project management resources to supplement and assist each individual site. Each site had dedicated engineering contractors, supported by their own project management and technical oversight, who worked closely with plant personnel.

## 4.0 PERSONNEL QUALIFICATIONS

The NTTF 2.3 Seismic Walkdown program involved the participation of numerous personnel with various responsibilities. This section identifies the project team members and their project responsibilities and provides brief experience summaries for each. Training certificates of those qualified as Seismic Walkdown Engineers are included in Attachment H.

Table 4-1 summarizes the names and responsibilities of personnel used to conduct the seismic walkdowns. Experience summaries of each person follow.

Table 4-1 SWE Team

Name	Equipment Selection Personnel	Seismic Walkdown Engineer	Licensing Basis Reviewer	IPEEE Reviewer
Jose Cardona <sup>3</sup>	X	X		
Brandon Nissing <sup>3</sup>	X	X		
Jeff Reynolds <sup>1</sup>	X			
Paul Sicard <sup>4</sup>	X			
John Dunkelberg (ENERCON)	X	X <sup>2</sup>	X	X
David Bassi (ENERCON)	X	X		X
Matt Keeney (ENERCON)		X		
Jason Halsey (Structural Integrity)		X		
Amar Dalawari (ENERCON)		X	X	

Notes:

1. RBS Plant operations representative
2. Designated lead SWE
3. RBS Engineer
4. RBS PRA Engineer

### Jose Cardona

Mr. Jose Cardona has a Bachelor of Science degree in Civil Engineering from the University of Puerto Rico Mayagüez. He is a registered Engineer in Training, EIT, in the commonwealth of Puerto Rico and has 4 years at River Bend Station. He has performed and reviewed numerous evaluations associated with the replacement of seismically qualified equipment. He has successfully completed NTTF 2.3: Seismic training on the application of EPRI Report 1025286.

### Brandon Nissing

Mr. Nissing has a Bachelor of Science degree in Civil Engineering from Louisiana State University. He is a registered Engineer in Training, EIT, in the state of Louisiana and has 4 years of experience in the Civil/Structural group at River Bend Station. He has performed and reviewed numerous evaluations associated with the replacement of seismically qualified equipment. He has successfully completed NTTF 2.3: Seismic training on the application of EPRI Report 1025286.

### Paul Sicard

Mr. Sicard has Bachelor of Science degrees in Physics and Nuclear Engineering, a Master of Science degree in Nuclear Engineering, and a Master of Engineering degree in Mechanical Engineering, all from Rensselaer Polytechnic Institute. Mr. Sicard has 24 years of commercial nuclear industry experience with Entergy, including 18 years at River Bend Station, primarily in the areas of Safety Analysis and Probabilistic Risk Assessment. He previously served in the U.S.Navy on the design staff of the Naval Nuclear Propulsion Directorate. He has completed SRO Certification at River Bend. He has successfully completed the EPRI Seismic PRA Training course and has provided training on Seismic PRA and Risk Assessment for Entergy's PRA group. He had also served as lead safety analysis engineer for the Waterford-3 Extended Power Uprate project and Alternative Source Term project and as project manager for the River Bend 24-month cycle project. He is a past chair of the GOTHIC User's Group. He is a registered Professional Engineer in Louisiana in Mechanical Engineering.

### John Dunkelberg

Mr. Dunkelberg has Bachelor of Science degrees in Civil Engineering and Building Construction from Michigan State University. He is a Registered Civil Engineer in the state of Wisconsin. He has successfully completed NTTF 2.3: Seismic training on the application of EPRI Report 1025286. Mr. Dunkelberg has over 35 years of nuclear power plant experience. His direct work experience related to this project includes 10 years as a civil/structural design engineer at River Bend Station. During this time he performed and reviewed numerous seismic evaluations of components in support of plant modifications.

### David Bassi

Mr. David Bassi received his Bachelor of Science degree from Mississippi State University in Civil Engineering. Mr. Bassi has experience with Entergy's Engineering Change and Work Management process. He has been a supporting engineer for various projects at River Bend Station (RBS) and Arkansas Nuclear One (ANO). He has successfully completed NTTF 2.3: Seismic training on the application of EPRI Report 1025286.

### Matt Keeney

Mr. Keeney has Bachelor of Science degree in Civil Engineering from the University of Alabama at Birmingham. He is a Registered Civil Engineer in the states of Alabama, Georgia, Iowa, Wisconsin and Florida. He has successfully completed NTTF 2.3: Seismic training on the application of EPRI Report 1025286. Mr. Keeney has over 13 years of experience in civil and structural design. During this time he performed and reviewed several seismic evaluations of components in support of plant modifications at Plant Hatch (Southern Company). He has extensive design experience designing both commercial and industrial facilities.

### Jason J. Halsey

Mr. Halsey has a Bachelor of Science degree in Mechanical Engineering from the University of North Florida. He has successfully completed NTTF 2.3: Seismic training on the application of EPRI Report 1025286. He has more than 12 years of experience with the US Navy's Nuclear Power program (9 years) and commercial nuclear power (3 years) with Structural Integrity Associates, as a Senior Engineer. During his tenure with the US Navy, Mr. Halsey developed a vast working knowledge of power plant system design, maintenance and operations. This knowledge has carried over well to his current position in Structural Integrity Associates' Nuclear Plant Services Division. He has been heavily involved in the design and analysis of structural weld overlay repairs for critical nuclear plant components. This has involved extensive field engineering support during the implementation of the designed repair plans and has also included the engineering inspection of piping and mechanical structures affected during the repairs. Other related duties have included Seismic Equipment Evaluation, Pipe Stress Analysis and Pipe Flaw Evaluation.

### Amar Dalawari

Mr. Dalawari has a Master of Science in Engineering degree from Kansas State University and majored in Civil / Structural Engineering. He is a Registered Civil Engineer in Canada. He has successfully completed NTTF 2.3: Seismic training on the application of EPRI Report 1025286. Mr. Dalawari has over 35 years of nuclear power plant design experience. His direct work experience related to this project includes 18 years as a civil/structural design engineer at River Bend Station. During this time he performed numerous seismic evaluations of components in support of plant modifications.

### Jeffrey Reynolds

Mr. Reynolds has worked at RBS for 13 years. He is currently a Senior Reactor Operator (SOP) and Operations Shift Manager (OSM).

#### 4.1 EQUIPMENT SELECTION PERSONNEL

A total of six (6) individuals served as Equipment Selection Personnel – see Table 4-1.

#### 4.2 SESIMIC WALKDOWN ENGINEERS

A total of seven (7) individuals served as Seismic Walkdown Engineers – see Table 4-1.

#### 4.3 LICENSING BASIS REVIEWERS

A total of two (2) individuals served as Licensing Basis Reviewers – see Table 4-1.

#### 4.4 IPEEE REVIEWERS

A total of two (2) individuals served as IPEEE Reviewers – see Table 4-1.

#### 4.5 PEER REVIEW TEAM

Table 4-2 summarizes the names and responsibilities of personnel used to conduct peer reviews of the seismic walkdown program. Experience summaries of each person follow.

Table 4-2 Peer Reviewers

Name	SWEL Peer Reviewer	Walkdown Peer Reviewer	Licensing Basis Peer Reviewer	Submittal Report Peer Reviewer	IPEEE Peer Reviewer
Ben Kosbab (ENERCON)	X <sup>1,2</sup>		X <sup>1,2</sup>	X <sup>1,2</sup>	
Bivins Calhoun (ENERCON)]	X				
Shawn McFarland (Structural Integrity)		X			
Winston Stewart (ENERCON)		X <sup>2</sup>	X		
David Bassi (ENERCON)					X
Pete Peterson (ENERCON)				X	

Notes:

1. Peer Review Team Leader
2. Lead peer reviewer of particular activity

### Benjamin Kosbab

Dr. Kosbab is a civil/structural engineer with ENERCON specializing in seismic engineering of nuclear power plant structures, systems, and components. He has earned Master of Science and Ph.D. degrees in civil/structural engineering from the Georgia Institute of Technology with a focus on probabilistic seismic response and fragility analysis of industrial structures. In the nuclear industry, Dr. Kosbab has been involved with seismic time-history and response spectra development, seismic equipment qualification, design of seismic supports, walkdowns, dynamic structural analysis, seismic instrumentation analysis, and soil-structure interaction analysis for plant modifications at numerous nuclear facilities. Dr. Kosbab maintains active involvement with the Nuclear Energy Institute (NEI) Seismic Task Force. He has successfully completed NTTF 2.3: Seismic training on the application of EPRI Report 1025286.

### Bivins Calhoun

Mr. Bivins Calhoun worked as a member of the Peer Review Team. Mr. Calhoun is a Senior Mechanical Engineer with over 17 years of experience in the nuclear power industry. Mr. Calhoun has a Bachelor's degree in Mechanical Engineering from the Georgia Institute of Technology and Bachelor of Arts degree in Applied Science & Mathematics from King College. Mr. Calhoun has extensive experience in engineered safety features systems analysis, particularly in accident and station blackout scenarios.

### Shawn McFarland

Mr. Shawn McFarland has a Bachelor of Science Degree in Civil Engineering from South Dakota School of Mines and Technology. He has successfully completed NTTF 2.3: Seismic training on the application of EPRI Report 1025286. In addition to NTTF related training, Mr. McFarland has also completed the Seismic Qualification Utilities Group (SQUG) Seismic Walkdown Screening and Seismic Evaluation training course. His work experience related to this project includes time spent as a civil/structural design engineer at Cooper Nuclear Station. During this time he performed and reviewed numerous seismic evaluations of components in support of plant modifications. His work also included performing operability evaluations of seismic capabilities of degraded SSCs. During his time at Cooper Nuclear Station, Mr. McFarland also acted as the site's SQUG representative. This responsibility included attending SQUG meetings and reviewing SQUG walkdown documentation as a part of plant modifications and operability evaluations.



### Pete Peterson

Mr. Peterson is the ENERCON Program Manager for the Fukushima Near-Term Task Force Recommendation 2.3 Seismic Walkdown Assessments for Entergy South and Entergy North. Mr. Peterson is a Certified Project Manager with 20+ years of nuclear project experience. Mr. Peterson is accomplished in nuclear facilities and power design, engineering and R&D, construction, maintenance and renovation, quality, and corrective action. He is a Failure Analysis expert in root/apparent cause analysis.

### Winston Stewart

Mr. Stewart has a Bachelor of Science Degree in Mechanical Engineering. He has successfully completed NTTF 2.3: Seismic training on the application of EPRI Report 1025286. In addition to NTTF related training, Mr. Stewart has also completed the Seismic Qualification Utilities Group (SQUG) Seismic Walkdown Screening and Seismic Evaluation training course. Mr. Stewart has over 13 years of seismic/structural engineering and design experience. His experience includes 8 years as senior and lead civil design engineer at the HB Robinson Nuclear Plant. Related duties and qualifications at the HB Robinson Nuclear Plant included seismic equipment qualification, pipe stress analysis, pipe support design, pipe flaw evaluation, modification engineer, system engineer, project manager, 10 CFR 50.59 evaluator, and apparent cause evaluator. He has significant experience in the qualification, design/evaluation, installation, and engineering inspection of mechanical and electrical components, including associated structures, piping and electrical raceways. Mr. Stewart was the technical lead for the seismic walkdowns at the Robinson site, and performed walkdowns, as an SWE, at the Hatch and Vogtle sites.

## 5.0 IPEEE VULNERABILITIES REPORTING

During the IPEEE program in response to NRC Generic Letter 88-20 [Ref. 4], plant-specific seismic vulnerabilities were identified at many plants. In this context, “vulnerabilities” refers to conditions found during the IPEEE program related to seismic anomalies, outliers, or other findings.

IPEEE Reviewers (see Section 4.4) reviewed the IPEEE final report [Ref. 5] and supporting documentation to identify items determined to present a seismic vulnerability by the IPEEE program. IPEEE Reviewers then reviewed additional plant documentation to identify the eventual resolutions to those seismic vulnerabilities not resolved via the completion of the IPEEE program.

The seismic vulnerabilities identified for RBS during the IPEEE program are reported in Attachment A, however no seismic vulnerabilities were identified by the RBS IPEEE program.

## 6.0 SEISMIC WALKDOWN EQUIPMENT LIST DEVELOPMENT

This section summarizes the process used to select the SSCs that were included in the Seismic Walkdown Equipment List (SWEL) in accordance with Section 3 of the Guidance. A team of equipment selection personnel with extensive knowledge of plant systems and components was selected to develop the SWEL. The SWEL is comprised of two groups of items:

- SWEL 1 consists of a sample of equipment required for safe shutdown of the reactor and to maintain containment integrity (i.e., supporting the five safety functions)
- SWEL 2 consists of items related to the spent fuel pool

The final SWEL is the combination of SWEL 1 and SWEL 2. The development of these two groups is described in the following sections.

### 6.1 SAMPLE OF REQUIRED ITEMS FOR THE FIVE SAFETY FUNCTIONS

Safe shutdown of the reactor involves four safety functions:

- Reactor reactivity control (RRC)
- Reactor coolant pressure control (RCPC)
- Reactor coolant inventory control (RCIC)
- Decay heat removal (DHR)

Maintaining containment integrity is the fifth safety function

- Containment function (CF)

The overall process for developing a sample of equipment to support these five safety functions is summarized in Figure 1-1 of the Guidance. Figure 1-1 of the Guidance provides a screening method for selecting SSCs, starting with all of the plant SSCs and reducing the number based on a series of screening criteria. The equipment coming out of Screen #3 and entering Screen #4 is defined as Base List 1. The equipment coming out of Screen #4 is the first Seismic Walkdown Equipment List, or SWEL 1. Development of these lists is described separately in the following sections.

#### 6.1.1 Base List 1

Based on Figure 1-1 and Section 3 of the Guidance, Base List 1 should represent a set of Seismic Category (SC) I equipment or systems that support the five safety functions. The IPEEE program was intended to address the seismic margin of SSCs

associated with each of the five safety functions. At RBS, the EPRI Seismic Margin Assessment (EPRI SMA) method was used to complete the seismic IPEEE program, based on EPRI Report NP-6041 titled "A Methodology for assessment of Nuclear Power Plant Seismic Margin." As described in Section 4.0 of the RBS IPEEE report [Ref. 5], an equipment list was developed representing the SSCs necessary for one preferred and one alternate "success path" capable of achieving and maintaining a safe shutdown condition for at least 72 hours following a SSE event. This equipment list of SSCs on the success paths is consistent with the requirements of Screens #1 through #3 of the Guidance. Therefore, the IPEEE equipment list of SSCs on the success paths was used as a starting point for the NTTF 2.3 Seismic Walkdown Base List 1. Base List 1 is presented as Table B.1 in Attachment B, and has 305 total items.

### 6.1.2 SWEL 1

Based on Figure 1-1 and Section 3 of the Guidance, SWEL 1 should represent a diverse population of items on Base List 1 including representative items from some of the variations within each of the five sample selection attributes. Additionally, the selection of SWEL 1 items includes consideration of the importance of the contribution to risk for the SSCs. Equipment Selection Personnel (see Section 4.1) developed SWEL 1 using an iterative process. The following paragraphs describe how the equipment selected for inclusion on the final SWEL 1 are representative with respect to each of the five sample selection attributes while also considering risk significance. In general, preference for inclusion on SWEL 1 was given to items that are accessible and have visible anchorage while still maintaining the sample selection attributes. SWEL 1 is presented as Table B.2 in Attachment B, and has 112 total items.

#### Variety of Types of Systems

Items were selected from Base List 1 ensuring that each of the five safety functions was well represented. Additionally, components from a variety of frontline and support systems, as listed in Appendix E of the Guidance, were selected. The system type of each item on SWEL 1 is listed on Table B.2 of Attachment B.

#### Major New and Replacement Equipment

With assistance from plant operations and Design Engineering and PRA personnel, Equipment Selection Personnel identified items on Base List 1 which are either major new or replacement equipment installed within the past 15 years, or have been modified or upgraded recently. These items are designated as such on Base List 1 on Table B.1 of Attachment B. A robust sampling of these items is represented on SWEL 1.

### Variety of Equipment Types

According to Appendix B of the Guidance, there are 22 classes of mechanical and electrical equipment. The items on Base List 1 were classified accordingly and the total number from each class was determined. Items were then selected from Base List 1 ensuring that each of the equipment classes represented there was also represented on SWEL 1 in approximately the same ratios. The equipment class of each item on SWEL 1 is listed on Table B.2 of Attachment B. Note that SWEL 1 does not include class 13 components, because there are no safety related motor generators at RBS.

Note that SWEL 1 does not include Class 11 or 13 components, because these are not represented on Base List 1.

### Variety of Environments

Items were selected from Base List 1 located in a variety of buildings, rooms, and elevations. These item locations included environments that were both inside and outside, as well as having high temperature and/or elevated humidity and within containment. The location and environment of each item on SWEL 1 is listed on Table B.2 of Attachment B.

### IPEEE Enhancements

No seismic vulnerabilities were identified by the RBS IPEEE program (see Section 5.0). Therefore, no equipment enhanced as a result of the IPEEE program has been included on Base List 1 or SWEL 1.

### Risk Significance

Information from the plant Probabilistic Risk Analysis (PRA) model was used to determine whether items were risk significant. Risk significance was assessed using Loss of Offsite Power as a surrogate for seismic risk. Risk significance was considered on a component level when choosing between similar components in different divisions. Where otherwise comparable items could be chosen relative to the sample selection attributes, the item with higher risk significance was generally chosen.

## 6.2 SPENT FUEL POOL ITEMS

The overall process for developing a sample of SSCs associated with the spent fuel pool (SFP) is similar to that of the screening process for SWEL 1 and is summarized in Figure 1-2 of the Guidance. The equipment coming out of Screen #2 and entering Screen #3 is defined as Base List 2. The items coming out of Screen #4 are items that could potentially cause the SFP to drain rapidly. The items coming out of either

Screen #3 or Screen #4 are the second Seismic Walkdown Equipment List, or SWEL 2. Development of these lists is described separately in the following sections.

#### 6.2.1 Base List 2

Based on Figure 1-2 and Section 3 of the Guidance, Base List 2 should represent the Seismic Category I equipment or systems associated with the SFP. To develop Base List 2, Equipment Selection Personnel (see Section 4.1) reviewed plant design and licensing basis documentation and plant drawings for the SFP and its associated cooling and support systems. Base List 2 is presented as Table B.3 in Attachment B, and has 34 total items.

#### 6.2.2 Rapid Drain-Down

Rapid drain-down is defined as unintentionally lowering the water level to the top of the fuel assemblies within 72 hours after an earthquake. Consistent with the Guidance, the Equipment Selection Personnel (see Section 4.1) identified SSCs that could cause the SFP to drain rapidly by first reviewing the SFP documentation to identify penetrations below about 10 ft above the top of the fuel assemblies.

Because this review found no such SFP penetrations, there is no potential for rapid drain-down and no items were included on the rapid drain-down list to include on SWEL 2. All piping connected to the spent fuel pool have passive anti-siphon holes installed in piping elbows to prevent siphoning of the pool.

#### 6.2.3 SWEL 2

Based on Figure 1-2 and Section 3 of the Guidance, SWEL 2 is a broad population of items on Base List 2 including representative items from some of the variations within each of four sample selection attributes (using sample process similar to SWEL 1). Due to the population of items on Base List 2 being much smaller than Base List 1, the sampling attributes are satisfied differently for SWEL 2 than for SWEL 1. The following paragraphs describe how the equipment selected from Base List 2 for inclusion on SWEL 2 are representative with respect to each of the four sample selection attributes (detailed below). SWEL 2 is presented as Table B.5 in Attachment B, and has 14 total items.

##### Variety of Types of Systems

There are several systems associated with SFP cooling. The systems in SWEL 2 that are represented are: CCP-Closed Cooling Water, EHS-Electrical Distribution, SFC-Fuel Pool Cooling, and SWP-Service Water.

### Major New and Replacement Equipment

There have been no major new or replacement equipment installations within the past 15 years associated with the SFP. Therefore, this sampling attribute is not applicable.

### Variety of Equipment Types

There are 8 different equipment classes (from the Guidance Appendix B) represented on Base List 2: 1, 3, 5, 7, 8, 19, 20, and 21. All but two of these equipment classes is represented on SWEL 2. The classes that are not represented are: 3 – *Medium Voltage, Metal-Clad Switchgear*, and 21 – *Tanks and Heat Exchangers*. The switchgear was not included because that specific piece of equipment was included on SWEL 1. The heat exchanger was not included because high radiation limited access to the equipment.

### Variety of Environments

All SFP-related components were located in the Auxiliary, Fuel, or Control Buildings; each of the items were located in similar environments. Therefore, this sampling attribute is not applicable.

## 6.3 DEFERRED INACCESSIBLE ITEMS ON SWEL

Each item on the SWEL shall be walked down as part of the NTTF 2.3 Seismic Walkdown program. In order to perform the seismic walkdowns of these items, it is necessary to have access to them and to be able to view their anchorage. In some cases, it was not feasible to gain access to the equipment or view its anchorage because RBS was at power during the entire 180-day response period of Enclosure 3 to the 50.54(f) Letter. For these cases, walkdowns of these items have been deferred until the next refueling outage (RFO-17) in February of 2013. An updated submittal report incorporating these deferred walkdowns will be provided within 90 days after the end of RFO-17.

Deferred items are summarized in the table below. The reason for deferral is identified as either ACC (indicating that the item is in an inaccessible item while the plant is at power) or CAB (indicating that the item requires opening cabinet/panel doors which was not permitted by plant Operations personnel during the walkdown period, due to being energized or otherwise). A total of 11 items are deferred; of these, 9 are in inaccessible areas, and 2 are cabinets/panel required to be opened.

Table 6-1 Deferred Items

<b>SWEL#</b>	<b>Equipment ID</b>	<b>Description</b>	<b>Location</b>	<b>Reason</b>
SWEL 1-001	B21-AOVF022B	MAIN STM LINE INBRD ISO VLV B	DRYWELL	ACC
SWEL 1-002	B21-AOVF028B	MAINSTM LINE OUTBRD ISOL VLV B	STEAM TUNNEL	ACC
SWEL 1-003	B21-RVF041D	MAIN STM LINE AUTO DEPRESSURIZATION SYS PRESSURE RELIEF VLV	DRYWELL	ACC
SWEL 1-004	B21-RVF047B	MAIN STM LINE B PRESS RAE LIEF VLV	DRYWELL	ACC
SWEL 1-026	E22-PC001	HPCS MOTOR FEEDER	AUX BLDG	ACC
SWEL 1-060	ENB-PNL02A	N/A	CONTROL BLDG	CAB
SWEL 1-036	E51-PNLC002	RCIC TURB GOVERNOR PNL	CONTROL BLDG	CAB
SWEL 1-100	SWP-FN1B	STANDBY COOLING TWR 1 (fan 1B)	STANDBY COOLING TOWER	ACC
SWEL 1-101	SWP-FN1J	STANDBY COOLING TWR 1 (fan 1J)	STANDBY COOLING TOWER	ACC
SWEL 1-102	SWP-FN1N	STANDBY COOLING TWR 1 (fan 1N)	STANDBY COOLING TOWER	ACC
SWEL 1-103	SWP-FN1V	STANDBY COOLING TWR 1 (fan 1V)	STANDBY COOLING TOWER	ACC



## 7.0 SEISMIC WALKDOWNS AND AREA WALK-BYS

The NTTF 2.3 Seismic Walkdown program conducted in accordance with the Guidance involves two primary walkdown activities, Seismic Walkdowns and Area Walk-Bys. These activities were conducted at RBS by teams of at least two trained and qualified Seismic Walkdown Engineers (SWEs) (see Section 4.1). Each team included one engineer with at least several years of experience in seismic design and qualification of nuclear power plant SSCs. A total of six SWEs were used: two RBS design engineers and four contractor engineers. The teams periodically “shuffled” personnel to cross-check consistency between the SWEs and to insure that lessons learned were being shared. Members of RBS Design Engineering also participated on each team during the walkdowns. RBS Operations and Electrical Maintenance personnel accompanied the SWE teams during inspections of the interiors of electrical panels to open cubicle doors.

The seismic walkdowns and area walk-bys were conducted over the course of 2 weeks during October of 2012. Each morning, a pre-job brief with all personnel involved was conducted. This pre-job brief was used to outline the components and areas that would be walked down that day, to ensure consistency between the teams, to reinforce expectations, to identifying potentially personnel safety issues specific to that day, and to allow team members to ask questions and share lessons learned in the field. The SWE teams brought cameras and flashlights into the field to assist with the seismic walkdowns and area walk-bys.

### 7.1 SEISMIC WALKDOWNS

Seismic walkdowns were performed in accordance with Section 4 of the Guidance for all items on the SWEL (SWEL 1 plus SWEL 2), except for those determined to be inaccessible and deferred (see Section 6.4). To document the results of the walkdown, a Seismic Walkdown Checklist (SWC) with the same content as that included in Appendix C of the Guidance was created for each item. Additionally, photographs were taken of each item and included on the corresponding SWC.

Prior to performance of the walkdowns, documentation packages were developed that contained the pre-filled SWC and other pertinent information including the location drawings, previous IPEEE seismic walkdown documentation, and anchorage drawings where applicable (response spectra information was available on site). These documentation packages were brought with the SWE teams into the plant during the seismic walkdowns.

Walkdown inspections focused on anchorages and seismic spatial interactions, but also included inspections for other potentially adverse seismic conditions. Anchorage, in all cases, was considered to specifically mean anchorage of the component to the structure. This included anchor bolts to concrete walls or floors, structural bolts to structural steel and

welds to structural steel or embedded plates. For welds, the walkdown team looked for cracks and corrosion in the weld and base metal. Other bolts or connections, such as flange bolts on in-line components were not considered as equipment anchorage. These bolts and connections were evaluated by the SWEs and any potential adverse seismic concerns were documented under “other adverse seismic conditions” rather than under “anchorage”. Thus, components with no attachments to the structure are considered as not having anchorage. Nevertheless, the attachment of these components to other equipment was evaluated and inspected for potentially adverse seismic conditions.

Cabinets/panels on the SWEL that could be reasonably opened without presenting safety or operational hazards were opened during the walkdown. This allowed visual observation of internal anchorage to the structure (where present), as well as inspection for “other adverse seismic conditions” related to internal components if it could be observed without breaking the plane of the equipment opening.

During walkdown discussions with Operations and Electrical Maintenance personnel, one MCC cabinet (ENB-MCC1) was identified to be a potential operational hazard to inspect the interior (opening doors of each MCC cubicle), due to the sensitive nature of the door opening mechanism. This MCC was therefore removed from the SWEL. This deletion did not adversely impact equipment diversity of the SWEL.

In addition to the general inspection requirements, at least 50% of the SWEL items having anchorage required confirmation that the anchorage configuration was consistent with plant documentation. Of the 126 SWEL items, 80 were considered to have anchorage (i.e., removing in-line/line-mounted components). Of these 80 anchored components, the walkdowns of 40 items included anchorage configuration verification, which is 50%. When anchorage configuration verification was conducted, the specific plant documentation used for comparison to the as-found conditions was referenced on the SWC.

The SWC for each SWEL item where a seismic walkdown has been initiated is included in Attachment C. A total of 116 SWCs are attached, 114 with completion status marked “Y” and 2 with completion status marked “N”. SWCs considered and marked incomplete are those where a walkdown was initiated, but whose completion was ultimately deferred because the cabinet/panel could not be opened during the walkdown period. Therefore, the 114 completed SWCs represent the completed walkdowns of each SWEL items accessible during the walkdown period.

## 7.2 AREA WALK-BYS

Seismic area walk-bys were performed in accordance with Section 4 of the Guidance for all plant areas containing items on the SWEL (SWEL 1 plus SWEL 2), except for those SWEL items located in plant areas inaccessible during the walkdown period (see Section 6.4). Area walk-bys were not deferred where components were deferred simply to open cabinets/panels. A separate Area Walk-By Checklist (AWC) with the same content as that included in Appendix C of the Guidance was used to document the results of each area walk-by performed. Photographs were taken of many of the areas, and included on the corresponding SWC and AWC.

Area walk-bys were conducted once for plant areas containing more than one SWEL item. In cases where the room or area containing a component was very large, the extent of the area encompassed by the area walk-by was limited to a radius of approximately 35 ft around the subject equipment. The extent of the areas included in the area walk-bys is described on the AWC for that area. Because certain areas contained more than one SWEL item, there are fewer total area walk-bys conducted than seismic walkdowns. A total of 57 area walk-bys were performed to cover all plant areas containing at least one accessible SWEL item.

The AWC for each area walk-by completed is included in Attachment D. A total of 57 AWCs are attached, which represent all of the areas containing a SWEL item that were accessible during the walkdown period. An additional 10 area walk-bys of areas will be completed together with the deferred walkdowns for those inaccessible items (see Section 6.4).

## 8.0 LICENSING BASIS EVALUATIONS

During the course of the seismic walkdowns and area walk-bys, the objective of the SWE teams was to identify existing degraded, non-conforming, or unanalyzed plant conditions with respect to its current seismic licensing basis. This section summarizes the process used to handle conditions identified, what conditions were found, and how they were treated for eventual resolution.

### CONDITON IDENTIFICATION

When an unusual condition was observed by a SWE team in the field, the condition was noted on the SWC or AWC form and briefly discussed between the two SWEs to agree upon whether it was a potentially adverse seismic condition. These initial conclusions were based on conservative engineering judgment and the training required for SWE qualification.

For conditions that were reasonably judged as insignificant to seismic response, the disposition was included on the SWC or AWC checklist and the appropriate question was marked "Y", indicating that no associated potentially adverse seismic condition was observed. Unusual or uncertain conditions were reported to site personnel for further resolution through the Corrective Action Program (CAP) (see Section 8.2 ). A total of 9 seismically insignificant conditions were identified. These conditions were related to housekeeping.

For conditions that were judged as potentially significant to seismic response, then the condition was photographed, and the appropriate question on the SWC or AWC was marked "N" indicating that a potentially adverse seismic condition was observed. The condition was then immediately reported to site personnel for further resolution and documented for reporting in Attachment E. A total of 20 potentially adverse seismic conditions were identified. These conditions were generally related to housekeeping (1), non-conforming anchorage (5), spatial interaction (5), or electrical cabinet internal attachment (9).

### CONDITION RESOLUTION

Conditions observed during the seismic walkdowns and area walk-bys determined to be potentially adverse seismic conditions are summarized in Attachment E, including how each condition has been addressed and its current status. Each potentially adverse seismic condition is addressed with a Licensing Basis Evaluation (LBE) to determine whether it requires entry into the CAP, or by entering it into the CAP directly. The decision to conduct a LBE or enter the condition directly into the CAP was made on a case-by-case basis, based on the perceived efficiency of each process for eventual resolution of each specific condition.

Unusual conditions that were not seismically significant were entered into the CAP directly. Further resolution of these conditions is not tracked or reported as part of the NTTF 2.3

Seismic Walkdown program, except by noting the CR numbers generated on the applicable SWCs and AWCs.

## 8.1 LICENSING BASIS EVALUATIONS

Potentially adverse seismic conditions identified as part of the NTTF 2.3 Seismic Walkdown program may be evaluated by comparison to the current licensing basis of the plant as it relates to the seismic adequacy of the equipment in question, as is described in Section 5 of the Guidance. If the identified condition is consistent with existing seismic documentation associated with that item, then no further action is required. Each potentially adverse condition was documented in an LBE, and further investigation was performed or entered into the CAP.

Of the 20 identified potentially adverse seismic conditions, 20 LBEs were performed. An. Each LBE performed is documented consistently, and included in Attachment F. The results of these LBEs with respect to the associated potentially adverse seismic conditions are summarized in Attachment E. A total of 4 potentially adverse seismic conditions evaluated using a LBE were dispositioned and required no further action, whereas 16 required CAP entry.

## 8.2 CORRECTIVE ACTION PROGRAM ENTRIES

Conditions identified during the seismic walkdowns and area walk-bys that required further resolution were entered into the plant's CAP. These were reviewed in accordance with the plant's existing processes and procedures for an eventual disposition. Conditions entered into the CAP included two types of unusual conditions identified:

- Seismically insignificant unusual conditions
- Potentially adverse seismic condition that does not pass a LBE

A total of 23 Condition Reports (CRs) were generated from the CAP as a result of the NTTF 2.3 Seismic Walkdown program. Of those, 7 were from seismically insignificant unusual conditions. A total of 16 CRs were written relative to potentially adverse seismic conditions identified. The CR numbers, current status, and resolution (where applicable and available) are summarized for these potentially adverse seismic conditions in Attachment E.

### 8.3 PLANT CHANGES

The CAP entries (CRs) generated by the NTTF 2.3 Seismic Walkdown program are being resolved in accordance with the plant CAP process. Initial evaluations indicate that no immediate plant changes are necessary. Final and complete resolutions of the CRs for seismically insignificant unusual conditions and potentially adverse seismic conditions will determine if future modifications to the plant are required. While no immediate plant modifications have been identified as a result of the seismic walkdowns and walk-bys, various cases were found where rework is required or housekeeping issues are being addressed. Current status and resolutions (where applicable and available) for CRs related to potentially adverse seismic conditions are provided in Attachment E.

## 9.0 PEER REVIEW

### 9.1 PEER REVIEW PROCESS

The peer review for the NTTF Recommendation 2.3 Seismic Walkdowns was performed in accordance with Section 6 of the Guidance. The peer review included an evaluation of the following activities:

- review of the selection of the structures, systems, and components, (SSCs) that are included in the Seismic Walkdown Equipment List (SWEL);
- review of a sample of the checklists prepared for the Seismic Walkdowns and area walk-bys;
- review of licensing basis evaluations and decisions for entering the potentially adverse conditions in to the plant's Corrective Action Plan (CAP); and
- review of the final submittal report.

At least two members of the peer review team (see Section 4.5) were involved in the peer review of each activity, the team member with the most relevant knowledge and experience taking the lead for that particular activity. A designated overall Peer Review Team Leader provided oversight related to the process and technical aspects of the peer review, paying special attention to the interface between peer review activities involving different members of the peer review team.

### 9.2 PEER REVIEW RESULTS SUMMARY

The following sections summarize the process and results of each peer review activity.

#### 9.2.1 Seismic Walkdown Equipment List Development

Peer review of the selection of SSCs for SWEL development was conducted by two peer reviewers. The lead reviewer for this peer review activity has knowledge and experience related to nuclear power plant design, operations, documentation, and SSCs; the other review has extensive knowledge of the NTTF 2.3 Seismic Walkdown program, including the equipment selection process. The peer review was conducted prior to the seismic walkdowns began, and was performed as follows:

- The draft SWEL (SWEL 1 + SWEL 2) was provided to the peer reviewers, along with the corresponding basis lists (Base List 1, Base List 2, and SFP rapid drain-down list) and written explanation of the equipment selection process used (see Section 6.0).

- Each peer reviewer independently reviewed the equipment selection process and resulting SWEL in terms of the equipment selection process presented in Section 3 of the Guidance.
- The peer reviewers discussed their findings and generated consolidated comments. General comments on the overall list and how it represents adequate diversity were documented on a peer review checklist based on Appendix F of the Guidance. Specific comments on documentation of the various lists and individual item selection decisions were documented on formal comment forms following utility procedure.
- Comments were provided to the Equipment Selection Personnel (see Section 4.2) and discussed process clarifications, suggested revisions, and other potential comment resolutions.
- The final SWEL was provided to the peer reviewers to confirm acceptable resolution of all comments.

All of the peer review comments were addressed by the Equipment Selection Personnel. The resolutions were reviewed by the peer review team and it was determined that all comments were adequately addressed. The primary result of the peer review activities was that the Equipment Selection Personnel modified their documentation to provide further clarification of their rationale for selecting certain items and satisfying certain sample selection criteria. The peer review team felt these modifications would be of benefit to provide transparency and justification of the adequacy of the SWEL, and resolved their specific questions about potential deficiencies.

During the process of conducting the walkdowns, a small number of isolated components that were not accessible were removed from the SWEL. The peer review team reviewed all changes made to the SWEL and determined that these changes had no impact on the adequacy and integrity of the SWEL with respect to the Section 3 of the Guidance.

Based on completion of the SWEL peer review activities described, the peer review team concludes that the Equipment Selection Personnel developed a SWEL that adequately reflects the selection and screening process outlined in the Guidance. The peer reviewers confirmed that all SSCs in the SWEL are Seismic Category I components that do not undergo regular inspections, and represent a diverse blend of different component types from critical systems and safety-related functions. The list



contains major new and replacement items, risk significance was considered, and SFP items were appropriately addressed. Specific considerations for how the SWEL adequately represents the sample selection attributes described in Section 3 of the Guidance are provided on the peer review checklist included as Attachment G.

### 9.2.2 Seismic Walkdowns and Area Walk-Bys

Review of Seismic Walkdowns and Area Walk-Bys was conducted by two members of the peer review team, each of whom is a qualified SWE and has broad knowledge of seismic engineering applied to nuclear power plants. One of the peer reviewers participated in the seismic walkdown program for a different utility (see Section 4.5). The peer reviews were conducted at the RBS site concurrent with the conduct of walkdowns.

The peer review team conducted interviews of SWE teams during field activities. Members of the peer review team accompanied SWE teams into the field to observe the inspection process. These observations were used as a means of gaining confidence in the SWE team members. During field observations SWEs were questioned to ensure all the necessary inspection were being completed.

Further interviews were conducted with SWE team members following walkdown activities. These were conducted informally on a daily basis to discuss challenges which arose during the day. Some of the major items discussed by the SWE team members and the Peer Reviewers included the differences between component mounting and anchorage, requirements for inspection of overhead lighting, inspection of electrical cabinets, inspection for flooding/spray issues, and documentation of the walkdowns.

In parallel to completion of walkdowns activities, members of the peer review team began reviewing Seismic Walkdown and Area Walk-By checklists. This review was intended to provide SWE teams with feedback during the process as a means of continuous improvement. A sample of Seismic Walkdown and Area Walk-By checklists were chosen for review such that items from each of the inspected equipment classes were chosen. In addition, items for review were selected from a variety of plant areas. The following list contains SWEL items which were reviewed by the peer review team. The SWC and AWC associated with each of these items were reviewed. These 24 items represent approximately 20% of the items on the SWEL-1 and SWEL-2.

Table 9-1 Peer Reviewed SWCs

SWEL Number	Equipment ID	Description	Class	Location
SWEL 1-009	C11-AOVF011	SCRAM DISCH VOL VENT & DRAIN AZ-174, EL-119 CONTAINMENT	7	RB
SWEL 1-014	E12-EB001A	RHR HEAT EXCHGR A	21	AB
SWEL 1-018	E12-MOVF048A	RHR A HX SHELL SIDE BYPASS VALVE	8	AB
SWEL 1-023	E22-EGS001	HPCS DIESEL GENERATOR DIESEL ENG	17	DG
SWEL 1-028	E22-S001BAT	125V DC DIV III BATTERY	15	CB
SWEL 1-029	E22-S003	HPCS TRANSFORMER FEEDER	4	CB
SWEL 1-035	E51-PC001	RX CORE ISOL CLG PMP	5	AB
SWEL 1-036	E51-PNLC002	RCIC TURB GOVERNOR PNL	20	CB
SWEL 1-047	EHS-MCC16A	STANDBY CLG TOWER 1 MTR CNTRL CENTER 16A	1	SCT
SWEL 1-051	EJS-LDC2A	REMOTE SHUTDOWN SYSTEM CONTROL POWER: 1HVR*UC11A,1HVR*UC1A	3	AB
SWEL 1-057	ENB-CHGR1A	STDBY BUS A 125 VOLTS DIRECT CURRENT SYS BTRY BANK 1A CHARGER 1A	16	CB
SWEL 1-061	ENB-SWG01A	125V DC SWITCHGEAR 1A	2	CB
SWEL 1-064	H22-P004	RX VSL LEVEL AND PRESS LOCAL PNL A	18	RB
SWEL 1-075	HVK-CHL1C	HVVC01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1C	11	CB
SWEL 1-076	HVK-MOV20C	CNTRL BLDG CHILLED WTR PMP 1C DISCH MTR OPERATED ISOL VLV	8	CB
SWEL 1-080	HVP-FLT2A	DIESEL GENERATOR ROOM A SPLY FAN 6A INTAKE FLT	0	DG
SWEL 1-081	HVP-FN2A	DIESEL ROOM A EMER VENTILATING EXHAUST FAN	9	DG
SWEL 1-084	HVR-UC1A	CONTMT UNIT COOLER	10	RB
SWEL 1-087	LSV-C3B	PENETRATION VALVE LEAKAGE CONT SYSTEM AIR COMPRESSOR	12	AB
SWEL 1-089	RCP-TCF04	RX CNTMNT ELECT OUTBRD PENTR LVC21 & LVI20A TERMINATION CABINET	14	FB
SWEL 1-091	C11-AOV126	SCRAM INLET VALVE	7	RB
SWEL 1-115	CMS-RTD040C	CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	19	RB
SWEL 2-008	SFC-AOV31A	F POOL PRFCN FLT1A BYP FD-6-87'	7	FB
SWEL 2-016	SWP-MOV504B	RPCCW SYSTEM RETURN	8	AB

Area Walkdown Checklists were reviewed in addition to Seismic Walkdown Checklists. The following list contains Area Walkdown Checklists which were reviewed by members of the peer review team. These 24 areas represent approximately 50% of the different areas (buildings) containing at least one SWEL item.

Table 9-2 Peer Reviewed AWCs

<b>AWC #</b>	<b>Plant Area</b>	<b>SWC#</b>
AWC-009	RB	SWEL 1-009
AWC-014	AB	SWEL 1-014
AWC-018	AB	SWEL 1-018
AWC-023	DG	SWEL 1-023
AWC-028	CB	SWEL 1-028
AWC-029	CB	SWEL 1-029
AWC-035	AB	SWEL 1-035
AWC-036	CB	SWEL 1-036
AWC-047	SCT	SWEL 1-047
AWC-051	AB	SWEL 1-051
AWC-057	CB	SWEL 1-057
AWC-061	CB	SWEL 1-061
AWC-064	RB	SWEL 1-064
AWC-075	CB	SWEL 1-075
AWC-076	CB	SWEL 1-076
AWC-080	DG	SWEL 1-080
AWC-081	DG	SWEL 1-081
AWC-084	RB	SWEL 1-084
AWC-087	AB	SWEL 1-087
AWC-089	FB	SWEL 1-089
AWC-091	RB	SWEL 1-091
AWC-115	RB	SWEL 1-115
AWC-008	FB	SWEL 2-008
AWC-016	AB	SWEL 2-016

In general, peer review comments on the Seismic Walkdown and Area Walk-By checklists were related to providing justification for conclusions drawn during walkdown activities. Some of the items which were determined acceptable by the walkdown team required detailed inspection to reach such conclusions. In these situations, it was asked that SWE team members provide additional discussion in the appropriate checklist.

The peer reviewers confirmed that all specific comments provided had been incorporated into the checklists reviewed and the processes observed. Additionally, previously completed checklists that were not specifically reviewed were revised to reflect lessons learned from the peer review process. In some instances, this involved additional review of completed items / areas by the SWE teams.

Based on completion of the walkdown and walk-by peer review activities described, the peer review team concluded that the SWE teams are familiar with and followed the process for conducting seismic walkdowns and area walk-bys in accordance with the Guidance. The SWE teams adequately demonstrated their ability to identify potentially adverse seismic conditions such as adverse anchorage, adverse spatial interaction, and other adverse conditions related to anchorage, and perform anchorage configuration verifications, where applicable. The SWEs also demonstrated the ability to identify seismically-induced flooding interactions and seismically-induced fire interactions. The SWEs discussed their observations as questioning peers, and documented the results of the seismic walkdowns and area walk-bys on the appropriate checklists based on Appendix C of the Guidance.

### 9.2.3 Licensing Basis Evaluations

Licensing Basis Evaluations (LBEs) were developed on site by the walkdown engineering team in the course of the walkdown efforts to determine which potentially adverse seismic conditions would be entered into the RBS Corrective Action Program (CAP). Each LBE was independently reviewed for technical content and CAP entry decisions by another member of the team that was not involved in the LBE's direct preparation. A third person peer reviewed the set of all LBEs to ensure the process and decisions made were in compliance with Section 5 of the Guidance. Based on these reviews, the peer review team concludes that the LBEs properly evaluate the field conditions relative to the specific plant licensing basis documents and makes appropriate decisions for entering potentially adverse seismic conditions into the plant's CAP. High-level peer review comments are documented in Attachment H.

### 9.2.4 Submittal Report

The peer review team was provided with an early draft of this submittal report for peer review. The peer review team verified that the submittal report met the objectives and requirements of Enclosure 3 to the 50.54(f) Letter, and documented the NTTF 2.3 Seismic Walkdown program performed in accordance with the Guidance. The peer review team provided the results of review activities to the SWE team for consideration. The SWE team satisfactorily addressed all peer review comments in the final version of the submittal report. The signature of the Peer Review Team Leader

provides documentation that all elements of the peer review as described in Section 6 of the Guidance were completed.

## 10.0 REFERENCES

1. 10CFR50.54(f) 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 Insights from the Fukushima Dai-Ichi Accident, dated March 12, 2012
2. EPRI 1025286, Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic, June 2012
3. River Bend Station Updated Final Safety Analysis Report (UFSAR), Revision 22
4. Generic Letter No. 88-20, Supplement 4, Individual Plant Examination of External Events (IPEEE) for Severe Accident Vulnerabilities
5. River Bend Station Seismic Individual Plant Examination of External Events (IPEEE) Submittal Report, (NE-RA-93-009-M) Dated 11-1-1993, Rev 0.

## **11.0 ATTACHMENTS**

ATTACHMENT A – IPEEE VULNERABILITIES TABLE

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS

ATTACHMENT C – SEISMIC WALKDOWN CHECKLISTS (SWCs)

ATTACHMENT D – AREA WALK-BY CHECKLISTS (AWCs)

ATTACHMENT E – POTENTIALLY ADVERSE SEISMIC CONDITIONS

ATTACHMENT F – LICENSING BASIS EVALUATION FORMS

ATTACHMENT G – PEER REVIEW CHECKLIST FOR SWEL

ATTACHMENT H – PEER REVIEW COMMENT FORM

ATTACHMENT I – SEISMIC WALKDOWN ENGINEER TRAINING CERTIFICATES

# **Attachment A**

## **IPEEE Vulnerabilities**



**ATTACHMENT A IPEE VULNERABILITIES TABLE**

**FUKUSHIMA NEAR – TERM TASK FORCE RECOMMENDATION 2.3 SEISMIC WALKDOWNS**

#	IPEEE VULNERABILITY	COMMITMENT	RESOLUTION	CMP	RESOLVED
V-01	NO IPEEE vulnerabilities identified for RBS	N/A	N/A	N/A	N/A

Prepared by: John Dunkelberg Date: 10-22-2012



Reviewed by: David Bassi Date: 10-22-2012



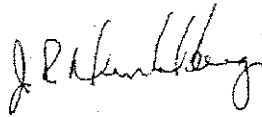
## Attachment B

### Seismic Walkdown Equipment Lists

List of Tables	Page
Table B.1 Base List 1	2
Table B.2 SWEL 1	7
Table B.3 Base List 2	11
Table B.4 Rapid Drain Down	12
Table B.5 SWEL 2	13

### Seismic Walkdown Equipment List Approval

Prepared by: John Dunkelberg



Date: 10/4/12

Equipment Selection Personnel

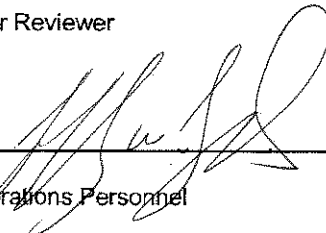
Reviewed by: Ben Kosbab



Date: 10/4/12

Peer Reviewer

Concurrence by: Jeff Reynolds



Date: 10/2/12

Operations Personnel









Table B.1 Base List 1 (BL 1)

SQUG Equipment Class	Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4			Five Safety Functions**					
			Seismic 1?	Undergo Regular Configuration Inspections	Maintains at least 1 of the 5 safety functions	IPEEE	Inside/Outside (°C)	Environment High Temp/Humidity (Y/N)	Borated System	Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Confinement
19	GMS-RTD040A	CENTRINT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	Y	N	Y*	N/A	I	H	N					
19	GMS-RTD040B	CENTRINT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	Y	N	Y*	N/A	I	H	N					
19	GMS-RTD040C	CENTRINT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	Y	N	Y*	N/A	I	H	N					
19	GMS-RTD040D	CENTRINT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	Y	N	Y*	N/A	I	H	N					
20	GMS-AT25A	CENTRINT MONITRNG SYS H2 ANALYZER XMITTR	Y	N	Y	N/A	I	H	N					X
20	GMS-AT25B	CENTRINT MONITRNG SYS H2 ANALYZER XMITTR B	Y	N	Y	N/A	I	H	N					X
1	EHS-MCC2K	480V MCC (power to B HZ limiters)	Y	N	Y	N/A	I	H	N					X
0	HCS-IGN04A	HZ RECOMB IGNITER 04A	Y	N	Y	N/A	I	H	N					X
7	HVR-ADV165	CONTMNT SPLY OUTBD ISOL(AL-2415Z)	Y	N	Y	N/A	I	H	N					X
7	HVR-ADV123	CONTMNT SPLY INBD ISOL(427-192)	Y	N	Y	N/A	I	H	N					X

\* Indicates that the item supports a secondary safety function with ultimately supports at least one of the 5 safety functions.  
 \*\*Note: the equipment items that do not indicate one of the five safety functions support secondary functions. (ie. SS-AC, SS-DC, SS-DC, SS-SW/C)  
 Bolded items were those chosen to be on SWEL 1

**Table B.2 Seismic Walkdown Equipment List 1 (SWEL 1)**

SWEL #	EQUIPMENT ID	DESCRIPTION	BLDG	ELEV (FT)	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT		ANC	DWG
									Inside/Outside (I/O)	High Temp/Humidity (T/H)		
SWEL1-001	B21-AOVF022B	MAIN STM LINE INBRD ISOL VLV B	DW	130	9303	2	CI	7	I	T/H	N	EM-2B
SWEL1-002	B21-AOVF028B	MAIN STM LINE OUTBRD ISOL VLV B	MST	130	8205	2	CI	7	I	H	N	EM-34B
SWEL1-003	B21-RVF041D	MAIN STM LINE D PRESS RELIEF VLV	DW	125	9202	2	PC	7	I	T/H	N	EM-2B
SWEL1-004	B21-RVF047B	MAIN STM LINE B AUTO DEPRESSURIZATION SYS PRESS RELIEF VLV	DW	125	9202	2	PC	7	I	T/H	N	EM-2B
SWEL1-005, SWEL1-006*, SWEL1-007, SWEL1-008*	C11-ACC125 C11-ACC128	SCRAM CHARGING WTR LINE ACCUM	RB	114	7203	N	RC	21	I	H	N	EM-2B
SWEL1-009	C11-AOVF011	SCRAM CHARGING WTR LINE NITROGEN ACCUM	RB	114	7203	N	RC	21	I	H	N	EM-2B
SWEL1-010	C11-AOVF180	SCRAM DISCH VOL VENT & DRAIN (AZ - 60? - 142?) CONTAINMENT BLDG	RB	141	7200	N	RC	7	I	H	N	EK-303T
SWEL1-011	C11-SOVF009	SCRAM DISCH VOL VENT & DRAIN(AZ - 174? - 119?)	RB	114	7211	3	RC	8	I	H	N	EK-303AA
SWEL1-012	C11-SOVF110A	SCRAM PILOT VLVS INSTR AIR SPLY LINE 3-WAY SOLENOID VLV	RB	114	7200	1	RC	8	I	H	N	EE-460W
SWEL1-013	C11-SOVF182	SCRAM AIR HDR(AZ - 176? - 119?)	RB	114	7200	3	RC	8	I	H	N	EK-303T
SWEL1-014	<i>Number not being used. Placeholder</i>											
SWEL1-015	E12-EB001C	RHR HEAT EXCHGR C	AB	70	6006	1	DHR	21	I		N	EM-034C
SWEL1-016	E12-MOVF004A	RHR PUMP A SUPPR POOL SUCTION VLV	AB	70	6008	1	DHR	8	I		N	EP-071D
SWEL1-017	E12-MOVF024A	RHR A TEST RETURN TO SUPP POOL	AB	95	6112	1	DHR	8	I		N	EZ-071ZF
SWEL1-018	E12-MOVF046A	RHR A HX SHELL SIDE BYPASS VALVE	AB	70	6006	1	DHR	8	I		N	EP-071D
SWEL1-019	E12-MOVF064A	RHR PUMP A MIN FLOW TO SUPPR POOL	AB	70	6006	1	DHR	8	I		N	EP-071E
SWEL1-020	E12-MOVF068B	RHR HX B SVCE WTR RTN (OR) RHR B HX SERVICE WATER OUTLET	TUNNEL D	70	20D1	2	DHR	8	I		N	EP-108D
SWEL1-021	E12-PC002A	RESIDUAL HEAT REMOVAL PMP 2A	AB	70	6006	1	DHR	6	I		Y	EM-034C
SWEL1-022	E21-MOVF011	LPCS PUMP MIN FLOW TO SUPPR POOL	AB	95	6112	1	IC	8	I		N	EZ-071ZF
SWEL1-023	E22-EGS001	HPCS DIESEL GENERATOR DIESEL ENG	DG	98	1104	3	SS-AC	17	I		Y	EM-13A
SWEL1-024	E22-LTN054G	CONDS STOR TK 1CNS-TK1FG-5-71" "F" TUNNEL	F TUNNEL	67	5000	3	IC	20	I		Y	EP-108A
SWEL1-025	E22-MOVF015	SUPPRESSION POOL PUMP SUCTION VALVE	AB	70	6001	3	IC	8	I		N	EP-083A
SWEL1-026	E22-PC001	HPCS MOTOR FEEDER	AB	70	6002	3	IC	6	I		N	EM-034C
SWEL1-027	E22-PNL5001	125V/DC PANEL DIV III	DG	98	1104	3	SS-DC	2	I		N	EM-13A
SWEL1-028	E22-S001BAT	125V/DC DIV III BATTERY	CB	116	N/A	3	SS-DC	15	I		Y	EE-027B
SWEL1-029	E22-S003	HPCS TRANSFORMER FEEDER	CB	116	N/A	3	SS-AC	4	I		Y	EE-027B
SWEL1-030	E22-S004	DIV III 4160V AC SWITCHGEAR	CB	116	N/A	3	SS-AC	3	I		N	EE-027B
SWEL1-031	E22-SKDS001-TK1A	DIESEL 1C AIR START RECEIVER TNK	DG	98	N/A	3	SS-AC	21	I		Y	EM-13A
SWEL1-032	E51-EC002	RX CORE ISOL-CLG TURB LUBE OIL CLR	AB	70	6005	N	IC	21	I		Y	EP-076A
SWEL1-033	<i>Number not being used. Placeholder</i>											



**Table B.2 Seismic Walkdown Equipment List 1 (SWEL 1)**

SWEL #	EQUIPMENT ID	DESCRIPTION	BLDG	ELEV (FT)	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT		ANC	DWG
									Inside/Outside (I/O)	High Temp/Humidity (T/H)		
SWEL1-034	E51-MOVFD045	RX CORE ISOL CLG TURB STM SPLY ISOL VLV	AB	70	6005	1	IC	8	I		N	EZ-0132B
SWEL1-035	E51-PC001	RX CORE ISOL CLG PMP	AB	70	6005	N	IC	5	I		Y	EM-034C
SWEL1-036	E51-PNL0002	RCIC TURB GOVERNOR PNL	CB	70	6112	N	IC	20	I		Y	EC-058CA
SWEL1-037	E51-TC002	RX CORE ISOL CLG TURB	AB	70	6005	N	IC	0	I		N	EM-034C
SWEL1-038	EGA-TK1C	SDG AIR START SYS AIR RECEIVER TK 1C	DG	98	1100	1	SS-AC	21	I		Y	EM-13A
SWEL1-039	EGA-TK2A	SDG AIR START SYS AIR RECEIVER TK 2A	DG	98	1100	1	SS-AC	21	I		N	EM-13A
SWEL1-040	EGE-CAB01A	DIV 1 DG EXCITER CABINET	DG	98	N/A	1	SS-AC	14	I		N	EM-13A
SWEL1-041	EGF-P1A	FUEL OIL TRANSFER PUMP	DG	98	N/A	1	SS-AC	6	I		N	EM-13A
SWEL1-042	EGF-TK2A	SDG FUEL OIL DAY TK A	DG	98	1100	1	SS-AC	21	I		N	EM-13A
SWEL1-043	EGS-EG1A	SDG A ENGINE	DG	98	1106	1	SS-AC	17	I		Y	EM-13A
SWEL1-044	EGT-E1A	SDG CLG SYS JACKET WTR CLR A	DG	98	N/A	1	SS-AC	21	I		Y	EP-19K
SWEL1-045	EHS-MCC14A	STANDBY SWGR RM 1A 480V MCC14A	CB	98	1117	1	SS-AC	1	I		Y	EE-027C
SWEL1-046	EHS-MCC15A	DIESEL GEN RM A MCC15A	DG	98	1107	1	SS-AC	1	I		N	EM-13A
SWEL1-047	EHS-MCC16A	STANDBY CLG TOWER 1 MTR CNTRL CENTER 16A	SCT	118	104	1	SS-SWP	1	I	H	Y	EP-019H
SWEL1-048	EHS-MCC2B	EHS-MCC2B AUX BLDG	AB	141	6302	2	RC, PC, DHR, CI	1	I		N	EM-034B
SWEL1-049	EHS-MCC2L	AUXILIARY BUILDING MCC2L	AB	141	6306	1	DHR, IC, CI, PC	1	I		N	EM-034B
SWEL1-051	EJS-LDC2A	REMOTE SHUTDOWN SYSTEM CONTROL POWER: 1HVR*UC11A, 1HVR*UC1A	AB	141	6306	1	SS-AC	3	I		Y	EM-034B
SWEL1-052	EJS-SWG1A	STANDBY SWGR RM 1A 480V SWG1A	CB	98	1117	1	SS-AC	3	I		Y	EE-027C
SWEL1-053	EJS-X1A	STANDBY SWGR ROOM 1A SWGR 1A PWR XFORMR 1A	CB	98	1117	1	SS-AC	4	I		N	EE-027C
SWEL1-054	EJS-X2A	AUX BLDG STANDBY SWGR 2A PWR XFORMR	AB	141	6306	1	SS-AC	4	I		Y	EM-034B
SWEL1-055	EJS-X3A	4.16kv - 480 v transformer	SBCT	136	N/A	1	SS-AC	4	I	H	Y	EE-590V
SWEL1-056	ENB-BAT01A	STANDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATTERY BANK 1A	CB	116	N/A	1	SS-DC	15	I		Y	EE-027B
SWEL1-057	ENB-CHGR1A	STDBY BUS A 125 VOLTS DIRECT CURRENT SYS BTRY BANK 1A CHARGER 1A	CB	116	1214	1	SS-DC	16	I		Y	EE-027B
SWEL1-058	ENB-INV01A	ENB*INV01A VITAL BUS A INVERTER	CB	98	N/A	1	SS-DC	16	I		N	EE-027
SWEL1-059	<i>Number not being used. Placeholder</i>											
SWEL1-060	ENB-PNL02A	125V DC PANEL	CB	136	1310	1	SS-DC	14	I		N	EE-420AD
SWEL1-061	ENB-SWG01A	125V DC SWITCHGEAR 1A	CB	98	1117	1	SS-DC	2	I		Y	EE-027C
SWEL1-062	ENS-SWG1A	4160V STANDBY SWGR BUS 1A	CB	98	1117	1	SS-AC	3	I		Y	EE-027C
SWEL1-063	H13-F693	RFS LOGIC DIV C	CB	136	1310	1	RC	20	I		Y	EE-027A
SWEL1-064	H22-P004	RX VSL LEVEL AND PRESS LOCAL PNL A	RB	114	7207	N	RC	18	I	H	N	EM-2B
SWEL1-065	HV-CACU1A	CONTROL ROOM AIR HLDG UNIT ACU1A	CB	116	1201	1	SS-AC	10	I		N	EE-027B

**Table B.2 Seismic Walkdown Equipment List 1 (SWEL 1)**

SWEL 1#	EQUIPMENT ID	DESCRIPTION	BLDG	ELEV (FT)	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT		ANC	DWG
									Inside/Outside (I/O)	High Temp/Humidity (T/H)		
SWEL1-066	HVC-ACU2A	CONTROL BLDG AIR HLDG UNIT ACU2A	CB	70	1011	1	SS-AC	10	I		N	EK-310A
SWEL1-067	HVR-UC5	HPCS PUMP ROOM UNIT COOLER	AB	114	6201	3	SS-AC	10	I		N	EM-034B
SWEL1-068	HVC-AOD12A	1HVC*ACU2A AIR OUTLET (CD-2-89)	CB	70	1000	1	SS-AC	7	I		N	EK-310A
SWEL1-069	HVC-AOD5B	1HVC*FN2B AIR INLET (CA-2-80)	CB	70	N/A	2	SS-AC	7	I		N	EK-310A
SWEL1-070	HVC-AOD6A	1HVC*ACU1A AIR OUTLET (CD-1-130')	CB	115	1200	1	SS-AC	7	I		N	EK-310F
SWEL1-071	HVC-CH1A	CONTROL ROOM AIR HLDG UNIT HEATER CH1A	CB	115	N/A	1	SS-AC	0	I		Y	EE-027B
SWEL1-072	HVC-CH3A	CNTRL BLDG BATTERY ROOM 1A COIL HTR	CB	116	1200	1	SS-DC	0	I		Y	EE-420M
SWEL1-073	HVC-FN2A	STBY SWGR RETURN FAN	CB	70	1000	1	SS-AC	9	I		Y	EE-420B
SWEL1-074	HVC-FN3D	BATTERY ROOM 1A EXHAUST FAN	CB	116	N/A	1	SS-DC	9	I		N	EE-027E
SWEL1-075	HVK-CH1C	HVK001 CONTROL BLDG CHILLED WATER COMPRESSOR CH1C	CB	98	1124	1	SS-AC	11	I		Y	EE-027C
SWEL1-076	HVK-MOV20C	CNTRL BLDG CHILLED WTR PMP 1C DISCH MTR OPERATED ISOL VLV	CB	98	1110	1	SS-AC	8	I		N	EB-081B
SWEL1-077	HVK-P1A	1HVK*P1A CONTROL BLDG CHILLED WATER PUMP	CB	98	1124	1	SS-AC	5	I		N	EE-027C
SWEL1-078	HVK-TK1A	CNTRL BLDG CHILLED WTR SURGE TK 1A	CB	98	1110	1	SS-AC	21	I		N	EE-027C
SWEL1-079	HVP-AOD11A	DSL GEN CONT RM A AIR SPLY (DC-3-131')	DG	126	1305	1	SS-AC	7	I		N	EB-007C
SWEL1-080	<i>Number not being used. Placeholder</i>											
SWEL1-081	HVP-FN2A	DIESEL ROOM A EMER VENTILATING EXHAUST FAN	DG	98	1100	1	SS-AC	9	I		Y	EM-13A
SWEL1-082	HVP-FN6A	DSL GEN CONT RM A VENT SUPPLY FAN	DG	126	1305	1	SS-AC	9	I		Y	EB-007C
SWEL1-083	HVP-PNL12A	DIESEL GENERATOR VENTILATION PNL 12A	DG	98	1106	1	SS-AC	3	I		N	EM-13A
SWEL1-084	HVR-UC1A	CONTMT UNIT COOLER	RB	162	7408	1	DHR	10	I	H	Y	EM-2A
SWEL1-085	HVR-UC6	AUX BLDG UNIT COOLER	AB	114	6205	1	DHR, IC	10	I		Y	EM-034B
SWEL1-086	LSV-C3A	PENETRATION VALVE LEAKAGE CONT SYSTEM AIR	AB	141	6301	1	PC	12	I		Y	EM-034B
SWEL1-087	LSV-C3B	PENETRATION VALVE LEAKAGE CONT SYSTEM AIR COMPRESSOR	AB	141	6301	2	PC	12	I		N	EM-034B
SWEL1-088	RCP-TCA03	RX CNTMNT ELECT OUTBRD PENTR NMS13 & LV113A TERMINATION CABINET	AB	114	6207	N	RC	14	I		N	EM-034B
SWEL1-089	RCP-TCF04	RX CNTMNT ELECT OUTBRD PENTR LVC21 & LV20A TERMINATION CABINET	FB	113	5205	N	RC	14	I	H	Y	EM-033C
SWEL1-090	RCP-TCR01F	RX CNTMNT ELECT INBRD PENTR NMS19 & LV19A TERMINATION CABINET	RB	114	7200	N	RC	14	I	H	Y	EM-2B
SWEL1-091,	C11-AOV126	SCRAM INLET VALVE	RB	N/A	N/A	N	RC	7	I	H	N	EM-2B
SWEL1-092*	C11-AOV127	SCRAM DISCHARGE VALVE	RB	N/A	N/A	N	RC	7	I	H	N	EM-2B
SWEL1-094*	C11-AOV139	SCRAM PILOT VALVES	RB	114	7200	N	RC	7	I	H	N	EM-2B
SWEL1-095,	<i>Number not being used. Placeholder</i>											
SWEL1-096*	<i>Number not being used. Placeholder</i>											
SWEL1-097	<i>Number not being used. Placeholder</i>											
SWEL1-098	<i>Number not being used. Placeholder</i>											
SWEL1-099	SWP-AOV599	STANDBY CLG TOWR 1 STAT BLACKOUT DIV 1 STNDBY SRVCE WTR RETURN VL	G tunnel	67	20G1	1	SS-SWP	7	I		N	EP-106G

**Table B.2 Seismic Walkdown Equipment List 1 (SWEL 1)**

SWEL #	EQUIPMENT ID	DESCRIPTION	BLDG	ELEV (FT)	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT		ANC	DWG
									Inside/Outside (I/O)	High Temp/Humidity (T/H)		
SWEL1-100	SWP-FN1B	STANDBY COOLING TWR 1	SCT	137	200	2	SS-SWP	9	O	H	Y	EM-032B
SWEL1-101	SWP-FN1J	STANDBY COOLING TOWER FAN FN1J	SCT	137	200	1	SS-SWP	9	O	H	N	EP-019H
SWEL1-102	SWP-FN1N	STANDBY COOLING TOWER FAN FN1N	SCT	137	200	1	SS-SWP	9	O	H	N	EM-032B
SWEL1-103	SWP-FN1V	STANDBY COOLING TOWER FAN 1V	SCT	137	200	2	SS-SWP	9	O	H	Y	EM-032B
SWEL1-104	SWP-MOV27C	CNTRL BLDG CHILLD WTR CHILLR CONDENSER C SVCE WTR SPLY LINE ISOL VLV	CB	98	1110	1	SS-AC	8	I		N	EP-019G
SWEL1-105	SWP-MOV602A	CNTNMINT UNIT CLR A SPLY HEADER INBRD CNTNMINT ISOL VLV	RB	162	7408	1	DHR	8	I	H	N	EP-19X
SWEL1-106	SWP-MOV40A	STANDBY SVCE WTR PMP A DISCH ISOL VLV	SCT	118	104	1	SS-SWP	8	I	H	N	EM-032B
SWEL1-107	SWP-MOV65A	STBY CLG TOWER 1 INLET	G TUNNEL	67	0	1	SS-SWP	8	I		N	EP-108G
SWEL1-108	SWP-P2A	STBY SVC WP	SCT	118	100	1	SS-SWP	6	I	H	Y	EM-032B
SWEL1-109	SWP-P3C	CONTROL BLDG CHILLER RECIRC PUMP P3C	CB	98	1100	1	SS-AC	5	I		N	EE-027C
SWEL1-111	SWP-SOV602A	STNDBY CLG TWR STATION BLACKOUT RETURN VLV AIR SPLY LINE CNTRL SO	G Tunnel	108	N/A	1	SS-SWP	8	I		N	EK-308D
SWEL1-112	JPB-RAK3	AUX BLDG LOCAL INSTR RACK 3	AB	141	6302	N	DHR	18	I		N	EM-034B
SWEL1-113	CMS-LT23A	SUPPRESSION POOL TRANSMITTER (AX 112? - 122?)	RB	114	7200	1	DHR	20	I	H	Y	EK-14A
SWEL1-114	CMS-RTD040A	CNTNMINT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	RB	95	7100	1	DHR	19	I	H	N	EK-14A
SWEL1-115	CMS-RTD040C	CNTNMINT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	RB	95	7100	1	DHR	19	I	H	N	EK-14A
SWEL1-116	CMS-AT25A	CNTNMINT MONITORING SYS H2 ANALYZER XMITTR	AB	114	6306	1	CI	20	I		N	EK-306A
SWEL1-117	EHS-MCC2K	480v MCC (power to B H2 igniters)	AB	141	N/A	2	CI	1	I		N	EM-034B
SWEL1-118	HCS-IGN04A	H2 RECOMB IGNITER 04A	RB	186	7500	1	CI	0	I		N	EE-460AW
SWEL1-119	HVR-AOV165	CONTMT SPLY OUTBD ISOL(AL-2-152')	AB	141	6307	1	CI	7	I		N	EK-306G
SWEL1-120	HVR-AOV123	CONTMT SPLY INBD ISOL(42? - 152')	RB	141	9408	1	CI	7	I		N	EB-15G

Note: \* denotes that two of these items were walked down (one on either side of the reactor bldg). The items had the same ID on both sides.

**Table B.3 Base List 2 (BL 2)**

BL2#	EQUIPMENT ID	DESCRIPTION	BLDG	ELEV	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT			N/R
									Inside/ Outside (I/O)	High Temp/Humidity (T/H)	Borated System	
2001	CCP-MOV129	CCP LOOP B OUTLET ISOL VLV	AB	70	6008	2	SFPC	8	I			N
2002	CCP-MOV130	CCP LOOP A OUTLET ISOL VLV	AB	70	6008	1	SFPC	8	I			N
2003	CCP-MOV16A	RPCGW LOOP A NORM SUPPLY VALVE	AB	70	6008	1	SFPC	8	I			N
2004	CCP-MOV16B	RPCGW LOOP B NORM SUPPLY VALVE	AB	70	6008	2	SFPC	8	I			N
2005	CCP-MOV163	CRD PUMPS SUPPLY VLV	FB	70	5013	2	SFPC	8	I			N
2006	CCP-MOV169	CRD PUMPS SUPPLY VALVE	FB	70	5013	2	SFPC	8	I			N
2007	CCP-MOV335	CCP LOOP A OUTLET MTR OPERATED ISOL VLV	AB	70	6008	1	SFPC	8	I			N
2008	CCP-MOV336	CCP LOOP B OUTLET MTR OPERATED ISOL VLV	AB	70	6008	2	SFPC	8	I			N
2009	EHS-MCC2G	AUXILIARY BUILDING MCC2G	AB	114	6206	-	SFPC	1	I			N
2010	EHS-MCC2H	AUXILIARY BUILDING MCC2H	AB	114	6203	-	SFPC	1	I			N
2011	EHS-MCC8A	STANDBY SWGR RM 1A 480V MCC8A	CB	98	1117	-	SFPC	1	I			N
2012	EHS-MCC8B	STANDBY SWGR RM 1B MCC8B	CB	98	1114	-	SFPC	1	I			N
2013	EJS-SWG1A	STANDBY SWGR RM 1A 480V SWG1A	CB	98	1117	1	SFPC	3	I			N
2014	EJS-SWG1B	STANDBY SWGR RM 1B 480V SWG1B	CB	98	1114	2	SFPC	3	I			N
2015	SFC-AOV31A	F POOL PRFCN FLT1A BYP FD-6-87'	FB	70	5018	1	SFPC	7	I	H		N
2016	SFC-AOV31B	F POOL PRFCN FLT1B BYP FD-9-87'	FB	70	5019	1	SFPC	7	I	H		N
2017	SFC-AOV32A	F POOL PRFCN FLT1A INLET FD-7-87'	FB	70	5000	1	SFPC	7	I	H		N
2018	SFC-AOV32B	F POOL PRFCN FLT1B INLET FD-9-87'	FB	70	5021	1	SFPC	7	I	H		N
2019	SFC-AOV37A	FUEL POOL PRFCN FLT 1A OUTLET FD-8-105'	FB	95	N/A	1	SFPC	7	I	H		N
2020	SFC-AOV37B	FUEL POOL PRFCN FLT 1B OUTLET FD-8-105'	FB	95	N/A	1	SFPC	7	I	H		N
2021	SFC-E1A	FUEL STORAGE POOL FUEL POOL CLR A	FB	70	5000	-	SFPC	21	I	H		N
2022	SFC-E1B	FUEL STORAGE POOL FUEL POOL CLR B	FB	70	5000	-	SFPC	21	I	H		N
2023	SFC-F19A	CLR WTR TO SPENT FUEL POOLS FE-8-70'	FB	70	5000	1	SFPC	20	I	H		N
2024	SFC-F19B	CLR WTR TO SPENT FUEL POOLS FE-8-75'	FB	70	5000	2	SFPC	20	I	H		N
2025	SFC-LT28A	FUEL STORAGE POOL (SPENT FUEL) LEVEL XMITTR	FB	95	5100	1	SFPC	20	I	H		N
2026	SFC-LT28B	FUEL STORAGE POOL (SPENT FUEL) LEVEL XMITTR	FB	95	5100	1	SFPC	20	I	H		N
2027	SFC-P1A	FUEL POOL COOLING PUMP 1A	FB	70	5011	1	SFPC	5	I	H		N
2028	SFC-P1B	FUEL POOL COOLING PUMP 1B	FB	70	5012	1	SFPC	5	I	H		N
2029	SFC-RTD7A	FUEL POOL CLG PMP A SUCT HEADER RESISTANCE TEMP DETECTOR	FB	70	5000	1	SFPC	19	I	H		N
2030	SFC-RTD7B	FUEL POOL CLG PMP B SUCT HEADER RESISTANCE TEMP DETECTOR	FB	70	5000	2	SFPC	19	I	H		N
2031	SWP-MOV504A	FUEL POOL CLR A SVCE WTR RETURN LINE ISOL VLV	AB	70	6008	1	SFPC	8	I			N
2032	SWP-MOV504B	RPCGW SYSTEM RETURN	AB	70	6001	2	SFPC	8	I			N
2033	SWP-MOV510A	RPCGW SYSTEM SUPPLY	AB	70	6008	1	SFPC	8	I			N
2034	SWP-MOV510B	RPCGW SYSTEM SUPPLY	AB	70	6001	2	SFPC	8	I			N

**Table B.4 Rapid Drain-Down List (RDD)**

RDD#	Description	Basis for Inclusion/Exclusion	RDD
R-01		Note: There are no items that will cause rapid drain-down of the spent fuel pool, based on review of piping, liner, and concrete drawings. There are no penetrations below about 10 ft above the top of the fuel assemblies.	
R-02			
R-03			
R-04		Ref. RBS USAR Section 9.1.2.3.3 and dwgs EC-062U, V, W, EP-077 Series, and EV-003A Series	
R-05			

Table B.5 Seismic Walkdown Equipment List 2 (SWEL 2)

SWEL 2#	Equipment ID	Description	BLDG	Elev.	Room	Train	System Type	Class	Environment			N/R	RDD
									Inside/ Outside (I/O)	High Temp/Humidity (T/H)	Borated System		
SWEL2-001	CCP-MOV130	CCP LOOP A OUTLET ISOL VLV	AB	70	6008	1	SFPC	8	I		N	N/A	
SWEL2-002	CCP-MOV16A	RPCCW LOOP A NORM SUPPLY VALVE	AB	70	6008	1	SFPC	8	I		N	N/A	
SWEL2-003	CCP-MOV163	CRD PUMPS SUPPLY VLV	AB	70	5013	2	SFPC	8	I		N	N/A	
SWEL2-004	CCP-MOV335	CCP LOOP A OUTLET MTR OPERATED ISOL VLV	AB	70	6008	1	SFPC	8	I		N	N/A	
SWEL2-005	EHS-MCC2H	AUXILIARY BUILDING MCC2H	AB	114	6203	2	SFPC	1	I		N	N/A	
SWEL2-006	EHS-MCC8B	STANDBY SWGR RM 1B MCC8B	CB	98	1114	2	SFPC	1	I		N	N/A	
SWEL2-007		<i>Number not being used. Placeholder</i>											
SWEL2-008	SFC-AOV31A	F POOL PRFCN FLT1A BYP FD-6-87	FB	70	5018	1	SFPC	7	I	H	N	N/A	
SWEL2-009	SFC-AOV32B	F POOL PRFCN FLT1B INLET FD-9-87	FB	70	5021	1	SFPC	7	I	H	N	N/A	
SWEL2-010		<i>Number not being used. Placeholder</i>											
SWEL2-011		<i>Number not being used. Placeholder</i>											
SWEL2-012	SFC-FT19B	CLR WTR TO SPENT FUEL POOLS FE-8-75	FB	70	5000	2	SFPC	20	I	H	N	N/A	
SWEL2-013	SFC-LT28A	FUEL STORAGE POOL (SPENT FUEL) LEVEL XMITTR	FB	95	5100	1	SFPC	20	I	H	N	N/A	
SWEL2-014	SFC-P1A	FUEL POOL COOLING PUMP 1A	FB	70	5011	1	SFPC	5	I	H	N	N/A	
SWEL2-015	SFC-RTD7B	FUEL POOL CLG PMP B SUCT HEADER RESISTANCE T	FB	70	5000	2	SFPC	19	I	H	N	N/A	
SWEL2-016	SWP-MOV504B	RPCCW SYSTEM RETURN	AB	70	6001	2	SFPC	8	I		N	N/A	
SWEL2-017	SWP-MOV510B	RPCCW SYSTEM SUPPLY	AB	70	6001	2	SFPC	8	I		N	N/A	

# **Attachment C**

## **Seismic Walkdown Checklists (SWC)**

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-005**

Equipment ID No. C11-ACC125 Equip. Class<sup>1</sup> 21 - Tanks and Heat Exchangers

Equipment Description SCRAM ACCUMULATOR - WATER SIDE

Location: Bldg. RB Floor El. 114 Room, Area 7203

Manufacturer, Model, Etc. (optional but recommended) GE 105D6138G001

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
4 bolts mounting CRD Scram Equipment rack to unistrut embedded in the floor. Accumulator is strapped with 2 bolts mounting the strap to equipment rack.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No visible cracks in concrete near equipment rack anchorage.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.



PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-005**

Equipment ID No. C11-ACC125 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - WATER SIDE

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-005**

Equipment ID No. C11-ACC125 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - WATER SIDE

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**Other Adverse Conditions**

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

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

None

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Evaluated by: Jason Halsey  Date: 10-9-2012

Matt Keeney  10-9-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-005**

Equipment ID No. C11-ACC125 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - WATER SIDE

**Photographs**



**Note:**



**Note:**

PAGE 5 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-005**

Equipment ID No. C11-ACC125 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - WATER SIDE



**Note:**



**Note:**

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-006**

Equipment ID No. C11-ACC125 Equip. Class<sup>1</sup> 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - WATER SIDE

Location: Bldg. RB Floor El. 114 Room, Area 7203

Manufacturer, Model, Etc. (optional but recommended) GE 105D6138G001

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
4 bolts mounting CRD Scram Equipment rack to unistrut embedded in the floor. Accumulator is strapped with 2 bolts mounting the strap to equipment rack.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No visible cracks in concrete near equipment rack anchorage.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-006**

Equipment ID No. C11-ACC125 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - WATER SIDE

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-006

Equipment ID No. C11-ACC125 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - WATER SIDE

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**Other Adverse Conditions**

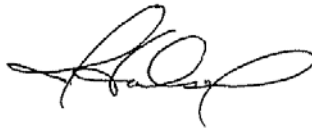
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U

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

None

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Evaluated by: Jason Halsey Date: 10-9-2012



Matt Keeney 10-9-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-006**

Equipment ID No. C11-ACC125 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - WATER SIDE

**Photographs**



**Note:**



**Note:**




Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-006**

Equipment ID No. C11-ACC125 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - WATER SIDE


<p><b>Note:</b></p>

<p><b>Note:</b></p>

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-007**

Equipment ID No. C11-ACC128 Equip. Class<sup>1</sup> 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - NITROGEN SIDE

Location: Bldg. RB Floor El. 114 Room, Area 7203

Manufacturer, Model, Etc. (optional but recommended) Not Available

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
4 bolts mounting CRD Scram Equipment rack to unistrut embedded in the floor. Accumulator is strapped with 2 bolts mounting the strap to equipment rack.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No visible cracks in concrete near equipment rack anchorage.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-007**

Equipment ID No. C11-ACC128 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - NITROGEN SIDE

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-007**

Equipment ID No. C11-ACC128 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - NITROGEN SIDE

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**Other Adverse Conditions**

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

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

None

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Evaluated by: Jason Halsey Date: 10-9-2012



Matt Keeney 10-9-2012

PAGE 4 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-007**

Equipment ID No. C11-ACC128 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - NITROGEN SIDE

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-007

Equipment ID No. C11-ACC128 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - NITROGEN SIDE



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-008**

Equipment ID No. C11-ACC128 Equip. Class<sup>1</sup> 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - NITROGEN SIDE

Location: Bldg. RB Floor El. 114 Room, Area 7203

Manufacturer, Model, Etc. (optional but recommended) \_\_\_\_\_

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
4 bolts mounting CRD Scram Equipment rack to unistrut embedded in the floor. Accumulator is strapped with 2 bolts mounting the strap to equipment rack.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
No visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No visible cracks in concrete near equipment rack anchorage.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-008**

Equipment ID No. C11-ACC128 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - NITROGEN SIDE

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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



PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-008**

Equipment ID No. C11-ACC128 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - NITROGEN SIDE

**Other Adverse Conditions**


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

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

None

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Evaluated by:  Date: 10-9-2012

Matt Keeney  
Matt Keeney  10-9-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-008**

Equipment ID No. C11-ACC128 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - NITROGEN SIDE

**Photographs**



**Note:**




**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-008**

Equipment ID No. C11-ACC128 Equip. Class 21 – Tanks and heat exchangers

Equipment Description SCRAM ACCUMULATOR - NITROGEN SIDE


<p><b>Note:</b></p>

<p><b>Note:</b></p>

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-009**

Equipment ID No. C11-AOVF011 Equip. Class<sup>1</sup> 7 – Pneumatic-Operated Valves

Equipment Description SCRAM DISCH VOL VENT & DRAIN AZ-174, EL-119 CONTAINMENT

Location: Bldg. RB Floor El. 114 Room, Area 7200

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Model 667-ES

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
In-line mounted valve welded to the pipe with the pipe clamped upstream and downstream of valve.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Surfaces are painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line valve mounted to process pipe..

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-009**

Equipment ID No. C11-AOVF011 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM DISCH VOL VENT & DRAIN AZ-174, EL-119 CONTAINMENT

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-009**

Equipment ID No. C11-AOVF011 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM DISCH VOL VENT & DRAIN AZ-174, EL-119 CONTAINMENT

**Other Adverse Conditions**

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

---

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

None

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*Matt Keeney*

Evaluated by: Matt Keeney Date: 10-9-2012

*Jason Halsey*

Jason Halsey 10-9-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-009**

Equipment ID No. C11-AOVF011 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM DISCH VOL VENT & DRAIN AZ-174, EL-119 CONTAINMENT

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-009**

Equipment ID No. C11-AOVF011 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM DISCH VOL VENT & DRAIN AZ-174, EL-119 CONTAINMENT



**Note:**

**Note:**



PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-010**

Equipment ID No. C11-AOVF180 Equip. Class<sup>1</sup> 7 – Pneumatic-Operated Valve

Equipment Description SCRAM DISCH VOL VENT & DRAIN (AZ - 60? - 142') CONTAINMENT BLDG

Location: Bldg. RB Floor El. 141 Room, Area 7200

Manufacturer, Model, Etc. (optional but recommended) ITT Hammel Dahl Conaflow Model 667-ES

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
In-line mounted valve, pipe clamp or welded upstream and downstream of valve.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Surfaces are painted.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line valve supported by steel.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-010**

Equipment ID No. C11-AOVF180 Equip. Class 7 – Pneumatic-Operated Valve

Equipment Description SCRAM DISCH VOL VENT & DRAIN (AZ - 60? - 142') CONTAINMENT BLDG

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-010**

Equipment ID No. C11-AOVF180 Equip. Class 7 – Pneumatic-Operated Valve

Equipment Description SCRAM DISCH VOL VENT & DRAIN (AZ - 60? - 142') CONTAINMENT BLDG

**Other Adverse Conditions**

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

---

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

None

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*Matt Keeney*

Evaluated by: Matt Keeney Date: 10-9-2012

*Jason Halsey*

Jason Halsey 10-9-2012

PAGE 4 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-010**

Equipment ID No. C11-AOVF180 Equip. Class 7 – Pneumatic-Operated Valve

Equipment Description SCRAM DISCH VOL VENT & DRAIN (AZ - 60? - 142') CONTAINMENT BLDG

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-010**

Equipment ID No. C11-AOVF180 Equip. Class 7 – Pneumatic-Operated Valve

Equipment Description SCRAM DISCH VOL VENT & DRAIN (AZ - 60? - 142') CONTAINMENT BLDG



**Note:**

**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-011**

Equipment ID No. C11-SOVF009 Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM DISCH VOL VENT & DRAIN (AZ - 174? - 119')

Location: Bldg. RB Floor El. 114 Room, Area 7211

Manufacturer, Model, Etc. (optional but recommended) Valcor Model V70900-45

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Valve is bolted to bracket which is welded to tube steel. All hardware is intact and undamaged.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Component mounted to tube steel.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-011**

Equipment ID No. C11-SOVF009 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM DISCH VOL VENT & DRAIN (AZ - 174? - 119')

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-011**

Equipment ID No. C11-SOVF009 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM DISCH VOL VENT & DRAIN (AZ - 174? - 119')

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**Other Adverse Conditions**

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

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

None

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Evaluated by: Jason Halsey Date: 10-10-2012



David Bassi 10-10-2012



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-011**

Equipment ID No. C11-SOVF009 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM DISCH VOL VENT & DRAIN (AZ - 174? - 119')

**Photographs**



**Note:**




**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-011**

Equipment ID No. C11-SOVF009 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM DISCH VOL VENT & DRAIN (AZ - 174? - 119')


<p><b>Note:</b></p>

<p><b>Note:</b></p>

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-012**

Equipment ID No. C11-SOVF110A Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM PILOT VLVS INSTR AIR SPLY LINE 3-WAY SOLENOID VLV

Location: Bldg. RB Floor El. 114 Room, Area 7200

Manufacturer, Model, Etc. (optional but recommended) Valcor Model V70900-43

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Rigid in-line mounted valve welded to piping. Attached piping is supported by tube steel.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No visible surface oxidation.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line mounted component.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-012**

Equipment ID No. C11-SOVF110A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM PILOT VLVS INSTR AIR SPLY LINE 3-WAY SOLENOID VLV

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-012**

Equipment ID No. C11-SOVF110A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM PILOT VLVS INSTR AIR SPLY LINE 3-WAY SOLENOID VLV

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**Other Adverse Conditions**

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

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

None

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Evaluated by: *Matt Keeney* Date: 10-3-2012

John Dunkelberg *J. Dunkelberg* 10-3-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-012**

Equipment ID No. C11-SOVF110A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM PILOT VLVS INSTR AIR SPLY LINE 3-WAY SOLENOID VLV

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-013**

Equipment ID No. C11-SOVF182 Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM AIR HDR (AZ - 176? - 119')

Location: Bldg. RB Floor El. 114 Room, Area 7200

Manufacturer, Model, Etc. (optional but recommended) Valcor Model V70900-45

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Valve bolted to bracket that is welded to tube steel. All hardware is intact and good condition.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Valve is mounted to tube steel.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-013**

Equipment ID No. C11-SOVF182 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM AIR HDR (AZ - 176? - 119')

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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



PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-013**

Equipment ID No. C11-SOVF182 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM AIR HDR (AZ - 176? - 119')

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**Other Adverse Conditions**

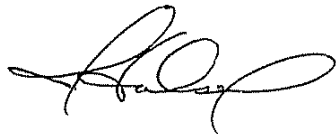
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U

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

None

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Evaluated by: Jason Halsey Date: 10-10-2012



David Bassi 10-10-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-013**

Equipment ID No. C11-SOVF182 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM AIR HDR (AZ - 176? - 119')

**Photographs**



**Note:**


**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-013**

Equipment ID No. C11-SOVF182 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description SCRAM AIR HDR (AZ - 176? - 119')


<p><b>Note:</b></p>

<p><b>Note:</b></p>

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-015**

Equipment ID No. E12-EB001C Equip. Class<sup>1</sup> 21 – Tanks and Heat Exchangers

Equipment Description RHR HEAT EXCHGR C

Location: Bldg. AB Floor El. 70 Room, Area 6006

Manufacturer, Model, Etc. (optional but recommended) GE Model 21A9425

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
No bent, broken, loose or missing hardware visible.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Some minor mild corrosion noted.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks observed.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-015**

Equipment ID No. E12-EB001C Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description RHR HEAT EXCHGR C

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-015**

Equipment ID No. E12-EB001C Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description RHR HEAT EXCHGR C

---

**Other Adverse Conditions**

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

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

None

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Evaluated by: John Dunkelberg  Date: 10-6-2012

Jose Cardona  10-6-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-015**

Equipment ID No. E12-EB001C Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description RHR HEAT EXCHGR C

**Photographs**



**Note:**




**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-015**

Equipment ID No. E12-EB001C Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description RHR HEAT EXCHGR C

	
<p><b>Note:</b></p>	<p><b>Note:</b></p>



PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-016**

Equipment ID No. E12-MOVF004A Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR PUMP A SUPPR POOL SUCTION VLV

Location: Bldg. AB Floor El. 70 Room, Area 6008

Manufacturer, Model, Etc. (optional but recommended) Velan Model B22-1054B-02TS

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
In-line valve bolts all good
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No corrosion noted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line valve

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-016**

Equipment ID No. E12-MOVF004A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR PUMP A SUPPR POOL SUCTION VLV

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-016**

Equipment ID No. E12-MOVF004A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR PUMP A SUPPR POOL SUCTION VLV

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**Other Adverse Conditions**


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

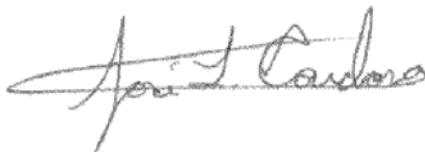
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**Comments** (Additional pages may be added as necessary)

None

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Evaluated by: John Dunkelberg  Date: 10/6/2012

Jose` Cardona  10/6/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-016**

Equipment ID No. E12-MOVF004A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR PUMP A SUPPR POOL SUCTION VLV

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-017**

Equipment ID No. E12-MOVF024A Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR A TEST RETURN TO SUPP POOL

Location: Bldg. AB Floor El. 70 Room, Area 6112

Manufacturer, Model, Etc. (optional but recommended) Enertech Model MAK

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware?  
In-line, insulated, no missing hardware observed. Y N U N/A
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation?  
Operation fasteners free of corrosion Y N U N/A
  
4. Is the anchorage free of visible cracks in the concrete near the anchors?  
In-line valve. Y N U N/A

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-017**

Equipment ID No. E12-MOVF024A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR A TEST RETURN TO SUPP POOL

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-017**

Equipment ID No. E12-MOVF024A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR A TEST RETURN TO SUPP POOL

---

**Other Adverse Conditions**

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

---

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

In-line insulated valve.

---

Evaluated by: John Dunkelberg



Date: 10/6/2012

Jose` Cardona



10/6/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-017**

Equipment ID No. E12-MOVF024A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR A TEST RETURN TO SUPP POOL

**Photographs**



**Note:**



**Note:**



PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-018**

Equipment ID No. E12-MOVF048A Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR A HX SHELL SIDE BYPASS VALVE

Location: Bldg. AB Floor El. 070 Room, Area 6006

Manufacturer, Model, Etc. (optional but recommended) Velan Model B19-1074C-02TS

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
In-line valve, insulated. No observed fasteners missing, bent, broken, loose fasteners.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Mild corrosion observed on valve fasteners.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line valve

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-018**

Equipment ID No. E12-MOVF048A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR A HX SHELL SIDE BYPASS VALVE

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-018**

Equipment ID No. E12-MOVF048A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR A HX SHELL SIDE BYPASS VALVE

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**Other Adverse Conditions**

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

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

Valve body below 78' elevation. Grating, actuator above. Inspection performed from 78' elevation.

Opening in grating is covered with 2 piece collar, welded in place above grating opening. Approximately 3" clear around valve, so there are no interaction concerns.

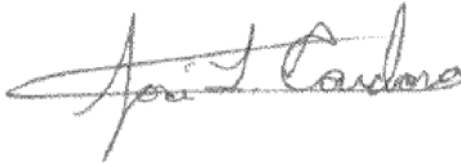
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Evaluated by: John Dunkelberg



Date: 10/6/2012

Jose` Cardona



10/6/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-018**

Equipment ID No. E12-MOVF048A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR A HX SHELL SIDE BYPASS VALVE

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-019**

Equipment ID No. E12-MOVF064A Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR PUMP A MIN FLOW TO SUPPR POOL

Location: Bldg. AB Floor El. 070 Room, Area 6006

Manufacturer, Model, Etc. (optional but recommended) Limitorque Model SB-00S

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
In-line mounted valve, no damaged or missing hardware.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No significant corrosion, valve body insulated.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line mounted valve.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-019**

Equipment ID No. E12-MOVF064A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR PUMP A MIN FLOW TO SUPPR POOL

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-019**

Equipment ID No. E12-MOVF064A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR PUMP A MIN FLOW TO SUPPR POOL

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**Other Adverse Conditions**

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

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

None

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Evaluated by: John Dunkelberg



Date: 10-6-2012

Jose Cardona



10-6-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-019**

Equipment ID No. E12-MOVF064A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR PUMP A MIN FLOW TO SUPPR POOL

**Photographs**



**Note:**



**Note:**



PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-020**

Equipment ID No. E12-MOVF068A Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR HX A SVCE WTR RTN (OR) RHR A HX SERVICE WATER OUTLET

Location: Bldg. D Tunnel Floor El. 70 Room, Area 20D1

Manufacturer, Model, Etc. (optional but recommended) Atwood Morrill Model 50472-C

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
All hardware present and in good condition.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No corrosion visible.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line mounted valve.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-020**

Equipment ID No. E12-MOVF068A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR HX A SVCE WTR RTN (OR) RHR A HX SERVICE WATER OUTLET

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-020**

Equipment ID No. E12-MOVF068A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR HX A SVCE WTR RTN (OR) RHR A HX SERVICE WATER OUTLET

**Other Adverse Conditions**


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

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

None

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Evaluated by: Jason Halsey Date: 10-10-2012



David Bassi 10-10-2012


Status: Y  N  U


**Seismic Walkdown Checklist (SWC)** SWEL1-020

Equipment ID No. E12-MOVF068A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR HX A SVCE WTR RTN (OR) RHR A HX SERVICE WATER OUTLET

**Photographs**


<b>Note:</b>



<b>Note:</b>


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-020**

Equipment ID No. E12-MOVF068A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description RHR HX A SVCE WTR RTN (OR) RHR A HX SERVICE WATER OUTLET


<b>Note:</b>


<b>Note:</b>

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-021**

Equipment ID No. E12-PC002A Equip. Class<sup>1</sup> 6 – Vertical Pump

Equipment Description RESIDUAL HEAT REMOVAL PMP 2A

Location: Bldg. AB Floor El. 70 Room, Area 6006

Manufacturer, Model, Etc. (optional but recommended) Byron Jackson Model 28DX18.5CKXL-3STG

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Anchorage is free of bent, broken, missing or loose hardware. Could not observe several anchors below piping.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Light corrosion observed.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No cracks observed.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-021**

Equipment ID No. E12-PC002A Equip. Class 6 – Vertical Pump

Equipment Description RESIDUAL HEAT REMOVAL PMP 2A

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.)

EC-066G

EC-066E

Verified in accordance with above dwgs

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

---

**Interaction Effects**

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

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

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

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-021**

Equipment ID No. E12-PC002A Equip. Class 6 – Vertical Pump

Equipment Description RESIDUAL HEAT REMOVAL PMP 2A

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**Other Adverse Conditions**

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

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

Observations made from 78' elevation down to 70' floor. 70' elevation is a contaminated zone not surveyed and no step off pad.

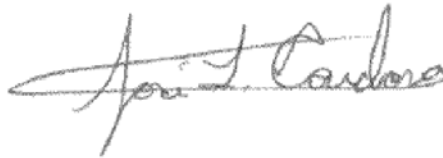
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Evaluated by: John Dunkelberg



Date: 10-6-2012

Jose Cardona



10-6-2012



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-021**

Equipment ID No. E12-PC002A Equip. Class 6 – Vertical Pump

Equipment Description RESIDUAL HEAT REMOVAL PMP 2A

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

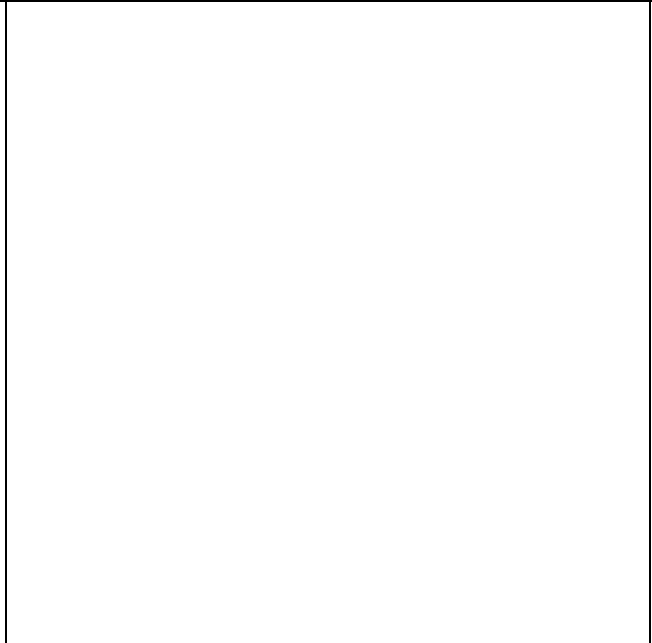
**Seismic Walkdown Checklist (SWC) SWEL1-021**

Equipment ID No. E12-PC002A Equip. Class 6 – Vertical Pump

Equipment Description RESIDUAL HEAT REMOVAL PMP 2A



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-022**

Equipment ID No. E21-MOVF011 Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description LPCS PUMP MIN FLOW TO SUPPR POOL

Location: Bldg. AB Floor El. 095 Room, Area 6112

Manufacturer, Model, Etc. (optional but recommended) Velan Model B12-1054B-02TS

**Instructions for Completing Checklist**

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

**Anchorage**

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

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-022**

Equipment ID No. E21-MOVF011 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description LPCS PUMP MIN FLOW TO SUPPR POOL

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-022**

Equipment ID No. E21-MOVF011 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description LPCS PUMP MIN FLOW TO SUPPR POOL

---

**Other Adverse Conditions**

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

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

Valve elevation is 95', west crescent area.

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Evaluated by: John Dunkelberg



Date: 10/6/2012

Jose' Cardona



10/6/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-022**

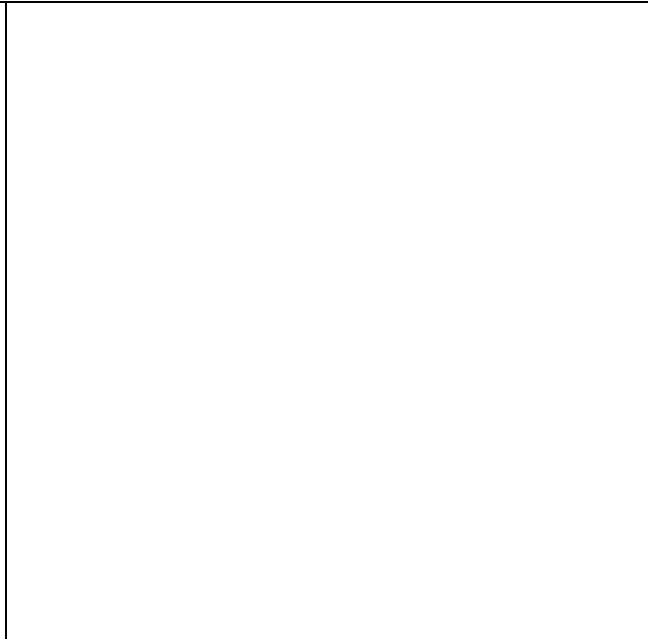
Equipment ID No. E21-MOVF011 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valve

Equipment Description LPCS PUMP MIN FLOW TO SUPPR POOL

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-023**

Equipment ID No. E22-EGS001 Equip. Class<sup>1</sup> 17 – Engine Generator

Equipment Description HPCS DIESEL GENERATOR DIESEL ENG

Location: Bldg. DG Floor El. 098 Room, Area 1104

Manufacturer, Model, Etc. (optional but recommended) Electro Motive GM Model 20-645-E4

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
30 Anchor bolts with nuts mounting equipment skid to concrete, 8 bolts/nuts anchoring diesel engine to skid.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Painted, no visible corrosion
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
Concrete pad is heavily painted no visible cracks near anchorage.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-023**

Equipment ID No. E22-EGS001 Equip. Class 17 – Engine Generator

Equipment Description HPCS DIESEL GENERATOR DIESEL ENG

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
EC-29E  
Verified in accordance with above dwg Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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



PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-023**

Equipment ID No. E22-EGS001 Equip. Class 17 – Engine Generator


Equipment Description HPCS DIESEL GENERATOR DIESEL ENG

**Other Adverse Conditions**

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

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

None



Evaluated by: Jason Halsey Date: 10/5/2012



Brandon Nissing 10/5/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-023**

Equipment ID No. E22-EGS001 Equip. Class 17 – Engine Generator

Equipment Description HPCS DIESEL GENERATOR DIESEL ENG

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-023**

Equipment ID No. E22-EGS001 Equip. Class 17 – Engine Generator

Equipment Description HPCS DIESEL GENERATOR DIESEL ENG



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-024**

Equipment ID No. E22-LTN054G Equip. Class<sup>1</sup> 20 – Instrument and Control Panel

Equipment Description CONDS STOR TK 1CNS-TK1FG-5-71' "F" TUNNEL

Location: Bldg. F Tunnel Floor El. 67 Room, Area 5000

Manufacturer, Model, Etc. (optional but recommended) Rosemount Model 1152DP3E22T0280PB

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
No missing bolts or hardware.  
Instrument is rack mounted to wall with (4) 1" concrete anchors
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Painted support
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No cracks observed

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-024**

Equipment ID No. E22-LTN054G Equip. Class 20 – Instrument and Control Panel

Equipment Description CONDS STOR TK 1CNS-TK1FG-5-71' "F" TUNNEL

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
ICRN-308A-10C; BZ-314DN; BZ-314F  
Verified in accordance with above dwg Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-024**

Equipment ID No. E22-LTN054G Equip. Class 20 – Instrument and Control Panel

Equipment Description CONDS STOR TK 1CNS-TK1FG-5-71' "F" TUNNEL

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**Other Adverse Conditions**


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

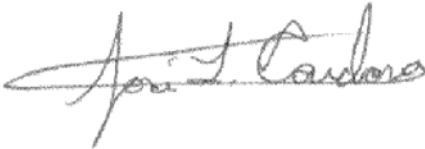
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**Comments** (Additional pages may be added as necessary)

None

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Evaluated by: John Dunkelberg  Date: 10/5/2012

Jose' Cardona  10/5/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-024**

Equipment ID No. E22-LTN054G Equip. Class 20 – Instrument and Control Panel

Equipment Description CONDS STOR TK 1CNS-TK1FG-5-71' "F" TUNNEL

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-025**

Equipment ID No. E22-MOVF015 Equip. Class<sup>1</sup> 8 – Motor-Operated & Solenoid-Operated Valve

Equipment Description SUPPRESSION POOL PUMP SUCTION VALVE

Location: Bldg. AB Floor El. 70 Room, Area 6001

Manufacturer, Model, Etc. (optional but recommended) Anchor Darling Model 2994-3

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
No missing or damaged hardware in-line mounted valve
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No corrosion visible
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line mounted valve

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.



PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-025**

Equipment ID No. E22-MOVF015 Equip. Class 8 – Motor-Operated & Solenoid-Operated Valve

Equipment Description SUPPRESSION POOL PUMP SUCTION VALVE

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-025**

Equipment ID No. E22-MOVF015 Equip. Class 8 – Motor-Operated & Solenoid-Operated Valve


Equipment Description SUPPRESSION POOL PUMP SUCTION VALVE

**Other Adverse Conditions**

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

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

None



Evaluated by: J. Halsey Date: 10/10/12



D. Bassi 10/10/12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-025**

Equipment ID No. E22-MOVF015 Equip. Class 8 – Motor-Operated & Solenoid-Operated Valve

Equipment Description SUPPRESSION POOL PUMP SUCTION VALVE

**Photographs**



**Note:**




**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-025**

Equipment ID No. E22-MOVF015 Equip. Class 8 – Motor-Operated & Solenoid-Operated Valve

Equipment Description SUPPRESSION POOL PUMP SUCTION VALVE


<p><b>Note:</b></p>

<p><b>Note:</b></p>

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-027**

Equipment ID No. E22-PNLS001 Equip. Class<sup>1</sup> 2 – Low Voltage Switchgear & Breaker Panels

Equipment Description 125V DC PANEL DIV III

Location: Bldg. DG Floor El. 098 Room, Area 1104

Manufacturer, Model, Etc. (optional but recommended) Morrison-Knudsen (GE) Model 22711AU

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware?  
No missing or damaged anchor bolts/nuts. Y N U N/A
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation?  
No visible corrosion. Y N U N/A
  
4. Is the anchorage free of visible cracks in the concrete near the anchors?  
No visible cracks in concrete. Y N U N/A

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-027**

Equipment ID No. E22-PNLS001 Equip. Class 2 – Low Voltage Switchgear & Breaker Panels

Equipment Description 125V DC PANEL DIV III

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-027**

Equipment ID No. E22-PNLS001 Equip. Class 2 – Low Voltage Switchgear & Breaker Panels

Equipment Description 125V DC PANEL DIV III

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**Other Adverse Conditions**

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

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

None

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Evaluated by: Jason Halsey Date: 10-5-2012



Brandon Nissing 10-5-2012

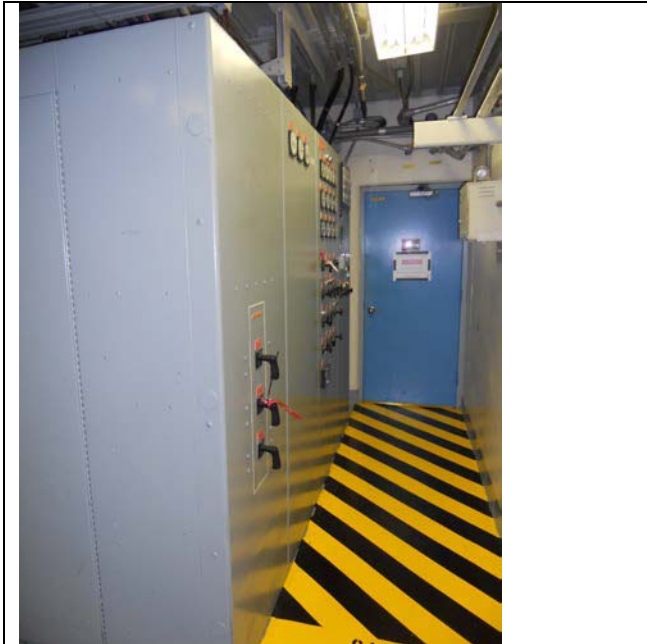
Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-027**

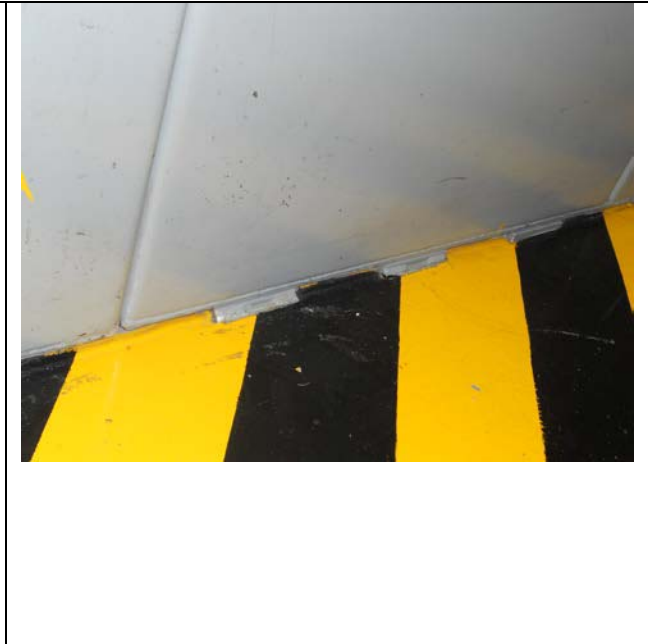
Equipment ID No. E22-PNLS001 Equip. Class 2 – Low Voltage Switchgear & Breaker Panels

Equipment Description 125V DC PANEL DIV III

**Photographs**



**Note:**



**Note:**




Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-027**

Equipment ID No. E22-PNLS001 Equip. Class 2 – Low Voltage Switchgear & Breaker Panels

Equipment Description 125V DC PANEL DIV III


<p><b>Note:</b></p>

<p><b>Note:</b></p>

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-028**

Equipment ID No. E22-S001BAT Equip. Class<sup>1</sup> 15 – Battery Racks

Equipment Description 125V DC DIV III BATTERY

Location: Bldg. CB Floor El. 115 Room, Area 1207

Manufacturer, Model, Etc. (optional but recommended) GNB Batteries Model NCN-11

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Anchorage was fully intact.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Anchorage was painted, no visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No visible cracks in concrete.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-028**

Equipment ID No. E22-S001BAT Equip. Class 15 – Battery Racks

Equipment Description 125V DC DIV III BATTERY

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

Y  N  U  N/A

The right side rack (as viewed from entrance) was bolted to the floor  
and the left side rack was welded to floor plates IAW:

0244.527-809-002, 0244.527-809-003, 0244.521-809-005

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

Y  N  U

---

**Interaction Effects**

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

Y  N  U  N/A

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

Y  N  U  N/A

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

Y  N  U  N/A

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

Y  N  U

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-028**

Equipment ID No. E22-S001BAT Equip. Class 15 – Battery Racks

Equipment Description 125V DC DIV III BATTERY

---

**Other Adverse Conditions**


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

---

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

None

---



Evaluated by: Jason Halsey Date: 10-5-2012



Brandon Nissing 10-5-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-028**

Equipment ID No. E22-S001BAT Equip. Class 15 – Battery Racks

Equipment Description 125V DC DIV III BATTERY

**Photographs**



**Note:** Left side battery rack



**Note:** Right side battery rack

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-028**

Equipment ID No. E22-S001BAT Equip. Class 15 – Battery Racks

Equipment Description 125V DC DIV III BATTERY



**Note:** Rack mount bolted to the floor



**Note:** Rack mount welded to floor plates

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-029**

Equipment ID No. E22-S003 Equip. Class<sup>1</sup> 4 – Transformer

Equipment Description HPCS TRANSFORMER FEEDER

Location: Bldg. CB Floor El. 116 Room, Area NA

Manufacturer, Model, Etc. (optional but recommended) GE (Elma Power Transformers) Model #317

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Component is welded to the floor plate.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
All surfaces painted, no visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No cracks visible.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-029**

Equipment ID No. E22-S003 Equip. Class 4 – Transformer

Equipment Description HPCS TRANSFORMER FEEDER

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
EE-38C  
Verified IAW above dwg Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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



PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-029**

Equipment ID No. E22-S003 Equip. Class 4 – Transformer

Equipment Description HPCS TRANSFORMER FEEDER

---

**Other Adverse Conditions**

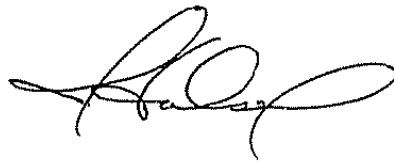
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U

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

None

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Evaluated by: Jason Halsey Date: 10-5-2012



Brandon Nissing 10-5-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-029**

Equipment ID No. E22-S003 Equip. Class 4 – Transformer

Equipment Description HPCS TRANSFORMER FEEDER

**Photographs**



**Note:**



**Note:**

PAGE 5 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-029**

Equipment ID No. E22-S003 Equip. Class 4 – Transformer

Equipment Description HPCS TRANSFORMER FEEDER



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-030**

Equipment ID No. E22-S004 Equip. Class<sup>1</sup> 3 – Medium Voltage, Metal-clad Switchgear

Equipment Description DIV III 4160V AC SWITCHGEAR

Location: Bldg. CB Floor El. 116 Room, Area NA

Manufacturer, Model, Etc. (optional but recommended) GE Model M26

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
No broken or missing hardware.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
All surfaces either painted or galvanized.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No visible cracking in concrete.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-030**

Equipment ID No. E22-S004 Equip. Class 3 – Medium Voltage, Metal-clad Switchgear

Equipment Description DIV III 4160V AC SWITCHGEAR

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-030**

Equipment ID No. E22-S004 Equip. Class 3 – Medium Voltage, Metal-clad Switchgear

Equipment Description DIV III 4160V AC SWITCHGEAR

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**Other Adverse Conditions**

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

See comments

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

Backside of switchgear cabinet (3<sup>rd</sup> access panel away from entry door) is bowed out at the bottom 1/3<sup>rd</sup> of the panel. Judged to be cosmetic only, not a seismic issue

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Evaluated by: Jason Halsey Date: 10-5-2012



Brandon Nissing 10-5-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-030**

Equipment ID No. E22-S004 Equip. Class 3 – Medium Voltage, Metal-clad Switchgear

Equipment Description DIV III 4160V AC SWITCHGEAR

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-030**

Equipment ID No. E22-S004 Equip. Class 3 – Medium Voltage, Metal-clad Switchgear

Equipment Description DIV III 4160V AC SWITCHGEAR



**Note:**

**Note:**



PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-031**

Equipment ID No. E22-SKDS001-TK1A Equip. Class<sup>1</sup> 21 – Tanks and Heat Exchangers

Equipment Description DIESEL 1C AIR START RECEIVER TNK

Location: Bldg. DG Floor El. 098 Room, Area NA

Manufacturer, Model, Etc. (optional but recommended) GE (Stewart & Stevenson) Model 25131

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
4 anchor bolts installed. No 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  
Painted surfaces, no visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Tank is mounted to steel platform.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-031**

Equipment ID No. E22-SKDS001-TK1A Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description DIESEL 1C AIR START RECEIVER TNK

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
0221.415-000-141  
Verified in accordance with above dwg Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-031**

Equipment ID No. E22-SKDS001-TK1A Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description DIESEL 1C AIR START RECEIVER TNK

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**Other Adverse Conditions**

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

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

None

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Evaluated by: Jason Halsey Date: 10/5/2012



Brandon Nissing 10/5/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-031**

Equipment ID No. E22-SKDS001-TK1A Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description DIESEL 1C AIR START RECEIVER TNK

**Photographs**



**Note:**




**Note:**


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-031**

Equipment ID No. E22-SKDS001-TK1A Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description DIESEL 1C AIR START RECEIVER TNK


<b>Note:</b>


<b>Note:</b>

PAGE 1 OF 7

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-032**

Equipment ID No. E51-EC002 Equip. Class<sup>1</sup> 21 – Tanks and Heat Exchangers

Equipment Description RX CORE ISOL CLG TURB LUBE OIL CLR

Location: Bldg. AB Floor El. 070 Room, Area 6005

Manufacturer, Model, Etc. (optional but recommended) Terry Turbine (Whitlock) Model 1-R-4

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Anchors are in good condition.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Only minor rust.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No visible cracks.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 7

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-032**

Equipment ID No. E51-EC002 Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description RX CORE ISOL CLG TURB LUBE OIL CLR

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
3221.452-000-001K, pdf page 281. Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U
- 

**Interaction Effects**

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

PAGE 3 OF 7

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-032**

Equipment ID No. E51-EC002 Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description RX CORE ISOL CLG TURB LUBE OIL CLR

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**Other Adverse Conditions**

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

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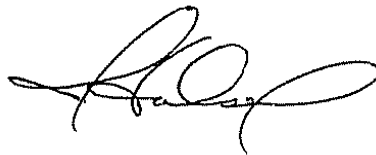
**Comments** (Additional pages may be added as necessary)

None

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Evaluated by: Matt Keeney Date: 10/8/2012



Jason Halsey 10/8/2012



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-032**

Equipment ID No. E51-EC002 Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description RX CORE ISOL CLG TURB LUBE OIL CLR

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-032**

Equipment ID No. E51-EC002 Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description RX CORE ISOL CLG TURB LUBE OIL CLR



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-032**

Equipment ID No. E51-EC002 Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description RX CORE ISOL CLG TURB LUBE OIL CLR



**Note:**




**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-032**

Equipment ID No. E51-EC002 Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description RX CORE ISOL CLG TURB LUBE OIL CLR


<p><b>Note:</b></p>

<p><b>Note:</b></p>

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-034**

Equipment ID No. E51-MOVF045 Equip. Class<sup>1</sup> 8 – Motor-Operated & Solenoid-operated Valve

Equipment Description RX CORE ISOL CLG TURB STM SPLY ISOL VLV

Location: Bldg. AB Floor El. 070 Room, Area 6005

Manufacturer, Model, Etc. (optional but recommended) Velan Model B12-7074P-02TS

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
All visible anchorage is present and in good condition. Valve body to pipe connection was not visible due to installed insulation.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No corrosion observed on exposed anchorage.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line mounted valve

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-034**

Equipment ID No. E51-MOVF045 Equip. Class 8 – Motor-Operated & Solenoid-operated Valve

Equipment Description RX CORE ISOL CLG TURB STM SPLY ISOL VLV

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-034**

Equipment ID No. E51-MOVF045 Equip. Class 8 – Motor-Operated & Solenoid-operated Valve

Equipment Description RX CORE ISOL CLG TURB STM SPLY ISOL VLV

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**Other Adverse Conditions**


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


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

None

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Evaluated by: David Bassi  Date: 10-10-2012

  
Jason Halsey \_\_\_\_\_ 10-10-2012 \_\_\_\_\_

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-034**

Equipment ID No. E51-MOVF045 Equip. Class 8 – Motor-Operated & Solenoid-operated Valve

Equipment Description RX CORE ISOL CLG TURB STM SPLY ISOL VLV

**Photographs**



**Note:**



**Note:**



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-034**

Equipment ID No. E51-MOVF045 Equip. Class 8 – Motor-Operated & Solenoid-operated Valve

Equipment Description RX CORE ISOL CLG TURB STM SPLY ISOL VLV



**Note:**



**Note:**

PAGE 1 OF 7

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-035**

Equipment ID No. E51-PC001 Equip. Class<sup>1</sup> 5 – Horizontal Pump

Equipment Description RX CORE ISOL CLG PMP

Location: Bldg. AB Floor El. 070 Room, Area 6005

Manufacturer, Model, Etc. (optional but recommended) Sulzer Bingham Model 6X6X10-1/2, 4STG Type CP

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
The anchors are in good condition.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Only mild rust.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks visible.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 7

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-035**

Equipment ID No. E51-PC001 Equip. Class 5- Horizontal Pump

Equipment Description RX CORE ISOL CLG PMP

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
EC-66A, EC-66E, EC-66G  
Anchorage matches what is seen on the drawings Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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

PAGE 3 OF 7

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-035**

Equipment ID No. E51-PC001 Equip. Class 5 – Horizontal Pump

Equipment Description RX CORE ISOL CLG PMP

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**Other Adverse Conditions**

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

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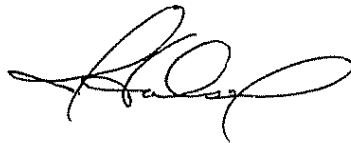
**Comments** (Additional pages may be added as necessary)

None

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Evaluated by: Matt Keeney Date: 10/8/2012



Jason Halsey 10/8/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-035**

Equipment ID No. E51-PC001 Equip. Class 5- Horizontal Pump

Equipment Description RX CORE ISOL CLG PMP

**Photographs**



**Note:**




**Note:**


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-035**

Equipment ID No. E51-PC001 Equip. Class 5- Horizontal Pump

Equipment Description RX CORE ISOL CLG PMP


<b>Note:</b>



<b>Note:</b>


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-035**

Equipment ID No. E51-PC001 Equip. Class 5- Horizontal Pump

Equipment Description RX CORE ISOL CLG PMP


<b>Note:</b>


<b>Note:</b>

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-035**

Equipment ID No. E51-PC001 Equip. Class 5

Equipment Description RX CORE ISOL CLG PMP



**Note:**



**Note:**



PAGE 1 OF 6

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-037**

Equipment ID No. E51-TC002 Equip. Class<sup>1</sup> 0-Other

Equipment Description RX CORE ISOL CLG TURB

Location: Bldg. AB Floor El. 070 Room, Area 6005

Manufacturer, Model, Etc. (optional but recommended) Terry Turbine Model GS-2

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Anchors are in good condition
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Only minor rust
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 6

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-037**

Equipment ID No. E51-TC002 Equip. Class 0-Other

Equipment Description RX CORE ISOL CLG TURB

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-037**

Equipment ID No. E51-TC002 Equip. Class 0-Other

Equipment Description RX CORE ISOL CLG TURB

**Other Adverse Conditions**

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

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

None



Evaluated by: M. Keeney Date: 10/8/12



J. Halsey 10/8/12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-037**

Equipment ID No. E51-TC002 Equip. Class 0-Other

Equipment Description RX CORE ISOL CLG TURB

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-037**

Equipment ID No. E51-TC002 Equip. Class 0-Other

Equipment Description RX CORE ISOL CLG TURB



**Note:**



**Note:**

Status: Y  N  U

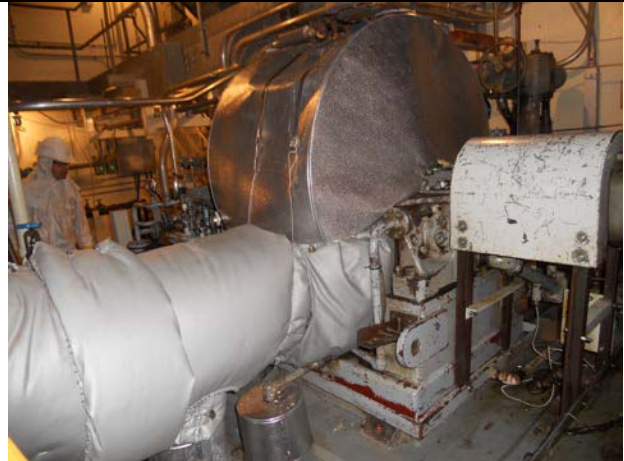
**Seismic Walkdown Checklist (SWC) SWEL1-037**

Equipment ID No. E51-TC002 Equip. Class 0-Other

Equipment Description RX CORE ISOL CLG TURB



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-038**

Equipment ID No. EGA-TK1C Equip. Class<sup>1</sup> 21-Tanks & Heat Exchangers

Equipment Description SDG AIR START SYS AIR RECEIVER TK 1C

Location: Bldg. DG Floor El. 98 Room, Area 1100

Manufacturer, Model, Etc. (optional but recommended) Thermxchanger Model D1529

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
All 12 bolts are present and engaged.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Bolts are painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks were evident in the concrete

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-038**

Equipment ID No. EGA-TK1C Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG AIR START SYS AIR RECEIVER TK 1C

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
Dwg Ref. 0244.700-041-024  
The drawing indicated that 12 ¾" bolts surrounded the tank which was  
verified in the field Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures?  
No soft targets Y  N  U  N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,  
and masonry block walls not likely to collapse onto the equipment?  
Nothing over-head Y  N  U  N/A
9. Do attached lines have adequate flexibility to avoid damage? Y  N  U  N/A
10. Based on the above seismic interaction evaluations, is equipment free  
of potentially adverse seismic interaction effects? Y  N  U



PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-038**

Equipment ID No. EGA-TK1C Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG AIR START SYS AIR RECEIVER TK 1C

---

**Other Adverse Conditions**

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

---

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

None

---

Evaluated by: D. Bassi  Date: 10-2-12

J. Dunkelberg  10-2-12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-038**

Equipment ID No. EGA-TK1C Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG AIR START SYS AIR RECEIVER TK 1C

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-039**

Equipment ID No. EGA-TK2A Equip. Class<sup>1</sup> 21-Tanks & Heat Exchangers

Equipment Description SDG AIR START SYS AIR RECEIVER TK 2A

Location: Bldg. DG Floor El. 098 Room, Area 1100

Manufacturer, Model, Etc. (optional but recommended) Thermxchanger Model D1529

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
All 12 bolts present and engaged
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Bolts are painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks are evident in the concrete

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-039**

Equipment ID No. EGA-TK2A Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG AIR START SYS AIR RECEIVER TK 2A

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-039**

Equipment ID No. EGA-TK2A Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG AIR START SYS AIR RECEIVER TK 2A

**Other Adverse Conditions**

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

---

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

None

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Evaluated by: D. Bassi  Date: 10-2-12

J. Dunkelberg  10-2-12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-039**

Equipment ID No. EGA-TK2A Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG AIR START SYS AIR RECEIVER TK 2A

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

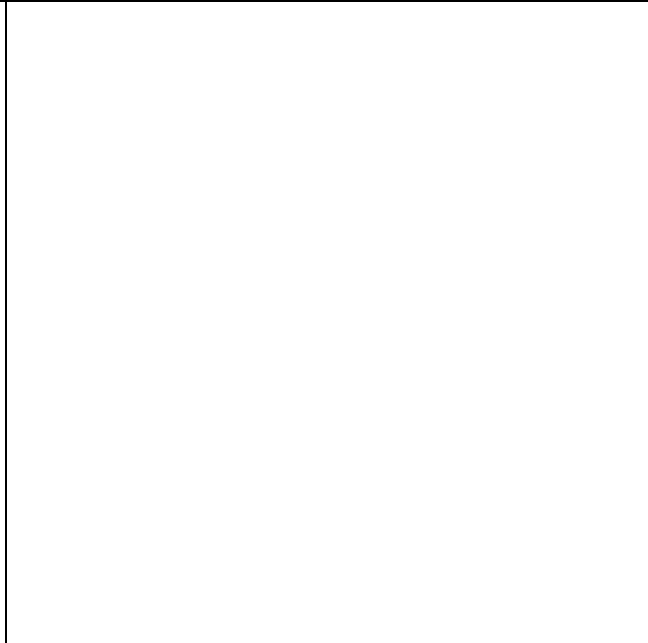
**Seismic Walkdown Checklist (SWC) SWEL1-039**

Equipment ID No. EGA-TK2A Equip. Class 21

Equipment Description SDG AIR START SYS AIR RECEIVER TK 2A



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-040**

Equipment ID No. EGE-CAB01A Equip. Class<sup>1</sup> 14-Distribution Panels & Auto Transfer Switches

Equipment Description DIV I DG EXCITER CABINET

Location: Bldg. DG Floor El. 098 Room, Area 1106

Manufacturer, Model, Etc. (optional but recommended) RTE Delta Corp Model NA

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Cabinet is welded to the floor.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Surfaces are painted, no visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No visible cracking at embedment.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.



PAGE 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-040**

Equipment ID No. EGE-CAB01A Equip. Class 14 Distribution Panels & Auto Transfer Switches

Equipment Description DIV I DG EXCITER CABINET

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-040**

Equipment ID No. EGE-CAB01A Equip. Class 14 Distribution Panels & Auto Transfer Switches

Equipment Description DIV I DG EXCITER CABINET

---

**Other Adverse Conditions**

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

---

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

None

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Evaluated by: Matt Keeney Date: 10-4-2012



John Dunkelberg 10-4-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-040**

Equipment ID No. EGE-CAB01A Equip. Class 14 Distribution Panels & Auto Transfer Switches

Equipment Description DIV I DG EXCITER CABINET

**Photographs**



**Note:**



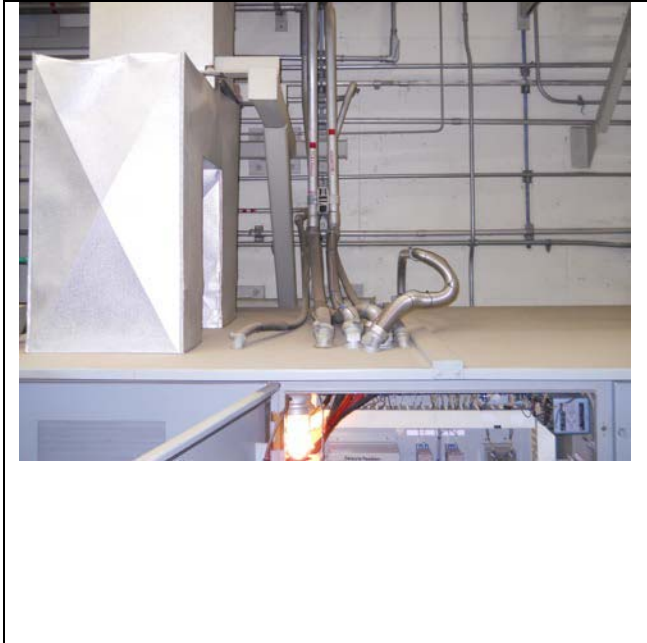
**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-040**

Equipment ID No. EGE-CAB01A Equip. Class 14 Distribution Panels & Auto Transfer Switches

Equipment Description DIV I DG EXCITER CABINET



**Note:**

**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-041**

Equipment ID No. EGF-P1A Equip. Class<sup>1</sup> 6-Vertical Pump

Equipment Description FUEL OIL TRANSFER PUMP

Location: Bldg. DG Floor El. 98 Room, Area NA/1102

Manufacturer, Model, Etc. (optional but recommended) Crane Deming Model 4703-40008999

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Bolts were all engaged and present
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No oxidation or corrosion
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-041**

Equipment ID No. EGF-P1A Equip. Class 6-Vertical Pump

Equipment Description FUEL OIL TRANSFER PUMP

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-041**

Equipment ID No. EGF-P1A Equip. Class 6-Vertical Pump

Equipment Description FUEL OIL TRANSFER PUMP

---

**Other Adverse Conditions**


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

---

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

Pump mounted in bottom of pit that is a confined space, so all observations made from 98' Elev.  
Pump at approximately 87' Elev.

---

Evaluated by: J. Dunkelberg  Date: 10-2-12

D. Bassi  10-2-12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-041**

Equipment ID No. EGF-P1A Equip. Class 6-Vertical Pump

Equipment Description FUEL OIL TRANSFER PUMP

**Photographs**



**Note:**



**Note:**

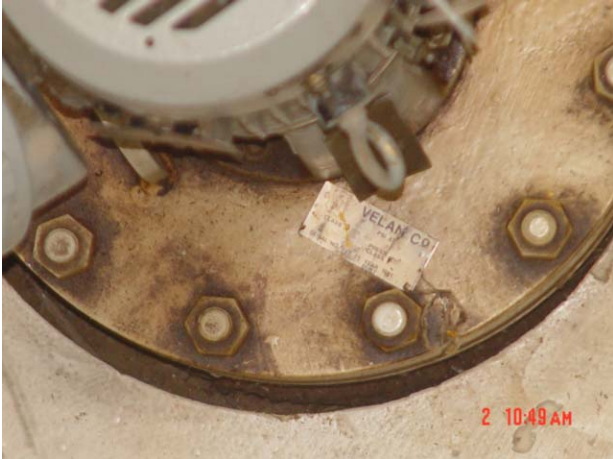


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-041**

Equipment ID No. EGF-P1A Equip. Class 6-Vertical Pump

Equipment Description FUEL OIL TRANSFER PUMP



**Note:**

**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-042**

Equipment ID No. EGF-TK2A Equip. Class<sup>1</sup> 21-Tanks & Heat Exchangers

Equipment Description SDG FUEL OIL DAY TK A

Location: Bldg. DG Floor El. 98 Room, Area 1100

Manufacturer, Model, Etc. (optional but recommended) Richmonds Eng Model D-76-632

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Suspended tank. Attached to W steel sections that are attached to the wall and braced. Connection is covered in fire proofing
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Steel is coated in fire proofing. No evidence of water.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Tank is suspended from the wall.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-042**

Equipment ID No. EGF-TK2A Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG FUEL OIL DAY TK A

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-042**

Equipment ID No. EGF-TK2A Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG FUEL OIL DAY TK A

---

**Other Adverse Conditions**

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

---

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

No cracks seen in the fire proofing on cantilever structural steel support off wall which indicates no damage/degradation to the supports

---

Evaluated by: D. Bassi



Date: 10-2-12

J. Dunkelberg



10-2-12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-042**

Equipment ID No. EGF-TK2A Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG FUEL OIL DAY TK A

**Photographs**



**Note:**




**Note:**


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-042**

Equipment ID No. EGF-TK2A Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG FUEL OIL DAY TK A


<b>Note:</b>


<b>Note:</b>

PAGE 1 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-043**

Equipment ID No. EGS-EG1A Equip. Class<sup>1</sup> 17-Engine Generators

Equipment Description SDG A ENGINE

Location: Bldg. DG Floor El. 98 Room, Area 1106

Manufacturer, Model, Etc. (optional but recommended) Cooper Model DSR-48

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
All bolts are fully engaged
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Bolts are painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
There were no cracks observed in the concrete.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-043**

Equipment ID No. EGS-EG1A Equip. Class 17-Engine Generators

Equipment Description SDG A ENGINE

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
Dwg Ref. 0244.700-041-005. All anchors present per reference. Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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



PAGE 3 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-043**

Equipment ID No. EGS-EG1A Equip. Class 17-Engine Generators

Equipment Description SDG A ENGINE

---

**Other Adverse Conditions**


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

---

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

None

---

Evaluated by: J. Dunkelberg  Date: 10-2-12

D. Bassi  10-2-12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-043**

Equipment ID No. EGS-EG1A Equip. Class 17-Engine Generators

Equipment Description SDG A ENGINE

**Photographs**



**Note:**



**Note:** Up-close of anchor bolt

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-043**

Equipment ID No. EGS-EG1A Equip. Class 17-Engine Generators

Equipment Description SDG A ENGINE



**Note:** Anchor bolts down the north side of the generator



**Note:** Southeast corner anchor bolts

Status: Y  N  U

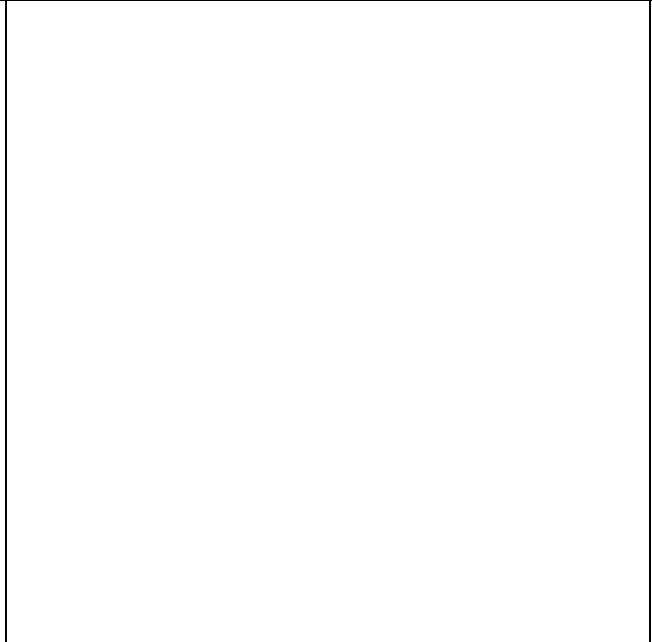
**Seismic Walkdown Checklist (SWC) SWEL1-043**

Equipment ID No. EGS-EG1A Equip. Class 17-Engine Generators

Equipment Description SDG A ENGINE



**Note:** Anchor bolts down the south side of the generator



**Note:**

PAGE 1 OF 7

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-044**

Equipment ID No. EGT-E1A Equip. Class<sup>1</sup> 21-Tanks & Heat Exchangers

Equipment Description SDG CLG SYS JACKET WTR CLR A

Location: Bldg. DG Floor El. 98 Room, Area NA

Manufacturer, Model, Etc. (optional but recommended) Cooper Ind. Model 74039-109

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
All bolting painted, rust free
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No rust observed
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks in area observed.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 7

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-044**

Equipment ID No. EGT-E1A Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG CLG SYS JACKET WTR CLR 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.)

Dwg Ref.

0244.700-041-005, 0244.700-041-018H, 0244.700-041-124,  
0244.700-041-125

Verified in accordance with above dwgs.

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

---

**Interaction Effects**

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

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

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

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

PAGE 3 OF 7

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-044**

Equipment ID No. EGT-E1A Equip. Class 21-Tanks & Heat Exchangers


Equipment Description SDG CLG SYS JACKET WTR CLR A


**Other Adverse Conditions**

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

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

None

Evaluated by: J. Dunkelberg  Date: 10-2-12

D. Bassi  10-2-12


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-044**

Equipment ID No. EGT-E1A Equip. Class 21-Tanks & Heat Exchangers


Equipment Description SDG CLG SYS JACKET WTR CLR A

**Photographs**



A photograph showing a close-up of a blue industrial tank. A dark pipe runs diagonally across the frame. In the background, a yellow pipe is visible. A red timestamp '2 10:58 AM' is present in the bottom right corner of the image.

**Note:**



A photograph showing a blue industrial tank. A yellow pipe is prominent on the right side. A metal structure, possibly a ladder or platform, is visible in the background. A red timestamp '2 10:58 AM' is present in the bottom right corner of the image.

**Note:**




Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-044**

Equipment ID No. EGT-E1A Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG CLG SYS JACKET WTR CLR A

 <p>A photograph showing a concrete base with several bolts and a metal beam. A red timestamp '2 11:00 AM' is visible in the bottom right corner of the image.</p>
<b>Note:</b>

 <p>A photograph showing a concrete base with several bolts and a metal beam. A red timestamp '2 11:00 AM' is visible in the bottom right corner of the image.</p>
<b>Note:</b>

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-044**

Equipment ID No. EGT-E1A Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG CLG SYS JACKET WTR CLR A



**Note:**

**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-044**

Equipment ID No. EGT-E1A Equip. Class 21-Tanks & Heat Exchangers

Equipment Description SDG CLG SYS JACKET WTR CLR A



**Note:**

**Note:**

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-045**

Equipment ID No. EHS-MCC14A Equip. Class<sup>1</sup> 1-Motor Control Center & Wall Mounted Contactors

Equipment Description STANDBY SWGR RM 1A 480V MCC14A

Location: Bldg. CB Floor El. 98 Room, Area 1117

Manufacturer, Model, Etc. (optional but recommended) Gould Model Series 5600

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Welded to floor sill plate.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Anchorage painted.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No visible cracks in concrete.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-045**

Equipment ID No. EHS-MCC14A Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description STANDBY SWGR RM 1A / 1B 480V MCC14A / B

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
248.000, EE-038A  
Verified in accordance with above dwgs Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U
- 

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-045**

Equipment ID No. EHS-MCC14A Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description STANDBY SWGR RM 1A / 1B 480V MCC14A / B

---

**Other Adverse Conditions**

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

See comments

---

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

See attached list of open items that need a WO / CR written. (typed out below)

WR to adjust latch handle EHS-MCC14A cubical so door can be open with safety latch

Door top hinge not attached completely, pin present on breaker 2AT & 2AB two hinge on door, two screw latches on right. Size of door is approx 12"x12"

Control power Transformer – screw hole in bottom right missing screw. Looks like it may never have had a screw, red "paint" behind hole. Occurred in cubicles 2C, 4A, 4C, 4D, 4E, 4F. Missing lower left screw in cubicle 4B

Ref. CR-RBS-2012-6323; LB-09

---

Evaluated by: David Bassi



Date: 10-4-2012

John Dunkelberg



10-4-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-045**

Equipment ID No. EHS-MCC14A Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description STANDBY SWGR RM 1A / 1B 480V MCC14A / B

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-046**

Equipment ID No. EHS-MCC15A Equip. Class<sup>1</sup> 1-Motor Control Center & Wall Mounted Contactors

Equipment Description DIESEL GEN RM A MCC15A

Location: Bldg. DG Floor El. 98 Room, Area 1107

Manufacturer, Model, Etc. (optional but recommended) Gould Model Series 5600

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
MCC is welded to floor.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Surfaces are painted, no visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks observed in the concrete floor.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.



PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-046**

Equipment ID No. EHS-MCC15A Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description DIESEL GEN RM A MCC15A

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-046**

Equipment ID No. EHS-MCC15A Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description DIESEL GEN RM A MCC15A

---

**Other Adverse Conditions**

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

See Comments

---

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

Grommet loose in cubicle 1BB, between cubicle and cable way.

Ref. CR-RBS-2012-06525.

---

*Matt Keeney*

Evaluated by: Matt Keeney

Date: 10-4-2012

*J. Dunkelberg*

John Dunkelberg

10-4-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-046**

Equipment ID No. EHS-MCC15A Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description DIESEL GEN RM A MCC15A

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-046**

Equipment ID No. EHS-MCC15A Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description DIESEL GEN RM A MCC15A



**Note:**

**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-047**

Equipment ID No. EHS-MCC16A Equip. Class<sup>1</sup> 1-Motor Control Center & Wall Mounted Contactors

Equipment Description STANDBY CLG TOWER 1 MTR CNTRL CENTER 16A

Location: Bldg. SCT Floor El. 118 Room, Area 0104

Manufacturer, Model, Etc. (optional but recommended) Gould Model Series 5600

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
MCC is welded to floor sill.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted surfaces
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks visible in the floor.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-047**

Equipment ID No. EHS-MCC16A Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description STANDBY CLG TOWER 1 MTR CNTRL CENTER 16A

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
Welded per 248.000, EE-038K, EC-047BE Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-047**

Equipment ID No. EHS-MCC16A Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description STANDBY CLG TOWER 1 MTR CNTRL CENTER 16A

---

**Other Adverse Conditions**

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

See comments

---

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

Out of alignment door hinge on bucket 4D.  
Screw appears to be missing in buckets 5B & 2A on transformers.

Ref. CR-RBS-2012-6311; LB-05

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Evaluated by: Matt Keeney Date: 10-4-2012



John Dunkelberg 10-4-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-047**

Equipment ID No. EHS-MCC16A Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description STANDBY CLG TOWER 1 MTR CNTRL CENTER 16A

**Photographs**



**Note:**



**Note:**

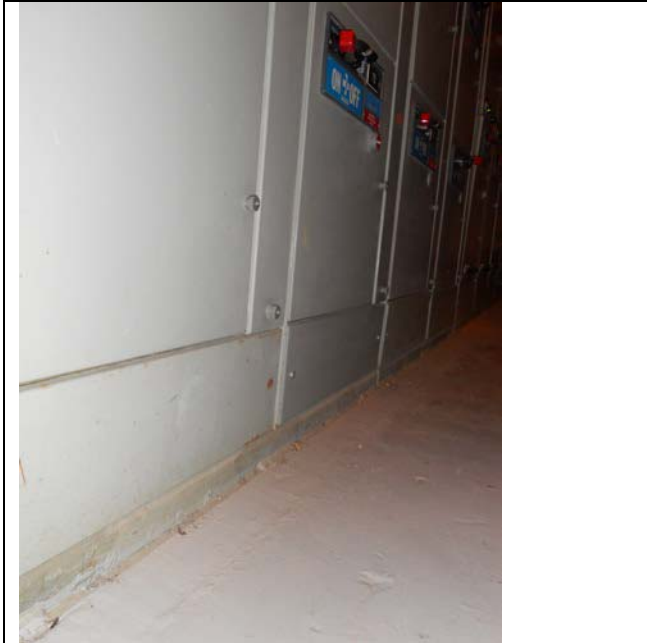


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-047**

Equipment ID No. EHS-MCC16A Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description STANDBY CLG TOWER 1 MTR CNTRL CENTER 16A



**Note:**



**Note:**

PAGE 1 OF 8

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-048**

Equipment ID No. EHS-MCC2B Equip. Class<sup>1</sup> 1-Motor Control Center & Wall Mounted Contactors

Equipment Description EHS-MCC2B AUX BLDG

Location: Bldg. AB Floor El. 141 Room, Area 6302

Manufacturer, Model, Etc. (optional but recommended) Gould Model Series 5600

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
MCC is welded to sill
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No visible cracks

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 8

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-048**

Equipment ID No. EHS-MCC2B Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description EHS-MCC2B AUX BLDG

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 8

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-048**

Equipment ID No. EHS-MCC2B Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description EHS-MCC2B AUX BLDG

---

**Other Adverse Conditions**

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

See comments

---

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

Cubicle 7A – Missing a bolt on transformer, upper right, 1 of 4 bolts (screws)

Cubicle 5A – one screw is missing on the rear wall of the cubicle on the upper right side to side plate

Cubicle 4A – no cover on split term block (spare cubicle) – Not a seismic issue

Cubicle 1CT – missing grommet on right side (power entering cubicle)- Not seismic issue.

Cubicle 1CB – missing lower right back panel screw.

Cubicle 1D, grommet is not engaged on right side of cubicle. Not seismic issue.

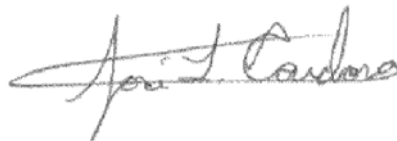
Ref. LB-20; CR-RBS-2012-06866

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Evaluated by: M. Keeney

Date: 10/10/12



J. Cardona

10/10/12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-048**

Equipment ID No. EHS-MCC2B Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description EHS-MCC2B AUX BLDG

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-048**

Equipment ID No. EHS-MCC2B Equip. Class 1

Equipment Description EHS-MCC2B AUX BLDG



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-048**

Equipment ID No. EHS-MCC2B Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description EHS-MCC2B AUX BLDG

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-048**

Equipment ID No. EHS-MCC2B Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description EHS-MCC2B AUX BLDG

**Photographs**



**Note:**



**Note:**



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-048**

Equipment ID No. EHS-MCC2B Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description EHS-MCC2B AUX BLDG

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 12

Status: Y N U

**Seismic Walkdown Checklist (SWC)** SWEL1-049

Equipment ID No. EHS-MCC2L Equip. Class<sup>1</sup> 1-Motor Control Center & Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2L

Location: Bldg. AB Floor El. 141 Room, Area 6306

Manufacturer, Model, Etc. (optional but recommended) Gould Model Series 5600

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Welded to sill
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No visible crack.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-049**

Equipment ID No. EHS-MCC2L Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2L

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-049**

Equipment ID No. EHS-MCC2L Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2L

---

**Other Adverse Conditions**

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

See comments

---

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

Cubical 1C – Transformer has 3 bolts installed. Upper right bolt missing.

Cubical 2B – Missing screw on back plate of breaker in the upper right corner.

Ref. CR-RBS-2012-06483; LB-10

Cubical 2B – Terminal block cover worn at attachment points may need to replace cover. See M94-0048 & 242.561 & 242.562 deviations for justifications

Cubical 3D – Breaker handle cracked.

Cubical 4A – Missing trip indicator cover.

Handle issues, see M94-0048 & 242.561 & 242.562 deviations for justifications

Cubicals 5B, 4C - Control power split block terminal cover top tab damaged. Ref. M94-0048 & 242.561 & 242.562 deviations for justifications

Cubical 4D – Indication on handle of breaker. Ref. M94-0048 & 242.561 & 242.562 deviations for justifications

Cubicals 4B, 5D, 6AT, 6AB, 6D – Could not observe, “protected”.

Scaffold on North side of equipment, installed per plant requirements, not potential interaction with the cabinet.

PAGE 4 OF 12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-049**

Equipment ID No. EHS-MCC2L Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2L

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Evaluated by: Matt Keeney Date: 10/5/2012



John Dunkelberg 10/5/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-049**

Equipment ID No. EHS-MCC2L Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2L

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-049**

Equipment ID No. EHS-MCC2L Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2L



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-049**

Equipment ID No. EHS-MCC2L Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2L



**Note:**



**Note:**



Status: Y  N  U

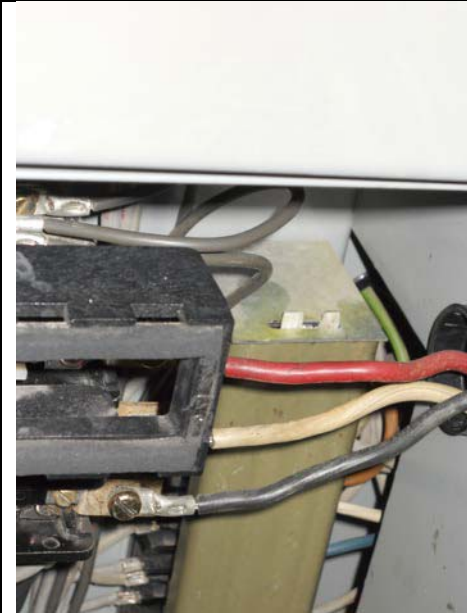
**Seismic Walkdown Checklist (SWC) SWEL1-049**

Equipment ID No. EHS-MCC2L Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2L



**Note:**



**Note:**

Status: Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-049**

Equipment ID No. EHS-MCC2L Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2L



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-049**

Equipment ID No. EHS-MCC2L Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2L



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-049**

Equipment ID No. EHS-MCC2L Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2L



**Note:**



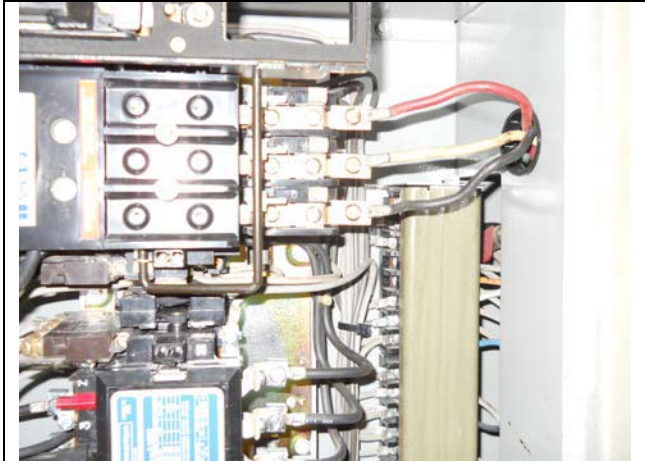
**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-049**

Equipment ID No. EHS-MCC2L Equip. Class 1-Motor Control Center & Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2L



**Note:**



**Note:**

PAGE 1 OF 7

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-051**

Equipment ID No. EJS-LDC2A Equip. Class<sup>1</sup> 3-Medium voltage, Metal-clad Switchgear

Equipment Description REMOTE SHUTDOWN SYSTEM CONTROL POWER: 1HVR\*UC11A,1HVR\*UC1A

Location: Bldg. AB Floor El. 141 Room, Area 6306

Manufacturer, Model, Etc. (optional but recommended) Powell Electric Model AKDG-EJS-LDC2

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Cubical – the rails are in place and in good condition.  
MCC – welded to sill
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No oxidation noticed.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks visible.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-051**

Equipment ID No. EJS-LDC2A Equip. Class 3-Medium voltage, Metal-clad Switchgear

Equipment Description REMOTE SHUTDOWN SYSTEM CONTROL POWER: 1HVR\*UC11A,1HVR\*UC1A

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
EE-038E, 248.000  
Verified in accordance with above dwgs Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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

PAGE 3 OF 7

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-051**

Equipment ID No. EJS-LDC2A Equip. Class 3-Medium voltage, Metal-clad Switchgear

Equipment Description REMOTE SHUTDOWN SYSTEM CONTROL POWER: 1HVR\*UC11A,1HVR\*UC1A

**Other Adverse Conditions**

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

See Comments

---

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

On the left hand side of cubical 36, there is a tie rap and small screw loose (resting on shelf) outside of the rails. Not a seismic concern. Housekeeping (foreign material)

Ref. CR-RBS-2012-06686  
WR 00287361 initiated.

---



Evaluated by: Matt Keeney Date: 10/5/2012



John Dunkelberg 10/5/2012



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-051**

Equipment ID No. EJS-LDC2A Equip. Class 3-Medium voltage, Metal-clad Switchgear

Equipment Description REMOTE SHUTDOWN SYSTEM CONTROL POWER: 1HVR\*UC11A,1HVR\*UC1A

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-051**

Equipment ID No. EJS-LDC2A Equip. Class 3-Medium voltage, Metal-clad Switchgear

Equipment Description REMOTE SHUTDOWN SYSTEM CONTROL POWER: 1HVR\*UC11A,1HVR\*UC1A



**Note:**

**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-051**

Equipment ID No. EJS-LDC2A Equip. Class 3-Medium voltage, Metal-clad Switchgear

Equipment Description REMOTE SHUTDOWN SYSTEM CONTROL POWER: 1HVR\*UC11A,1HVR\*UC1A



**Note:**



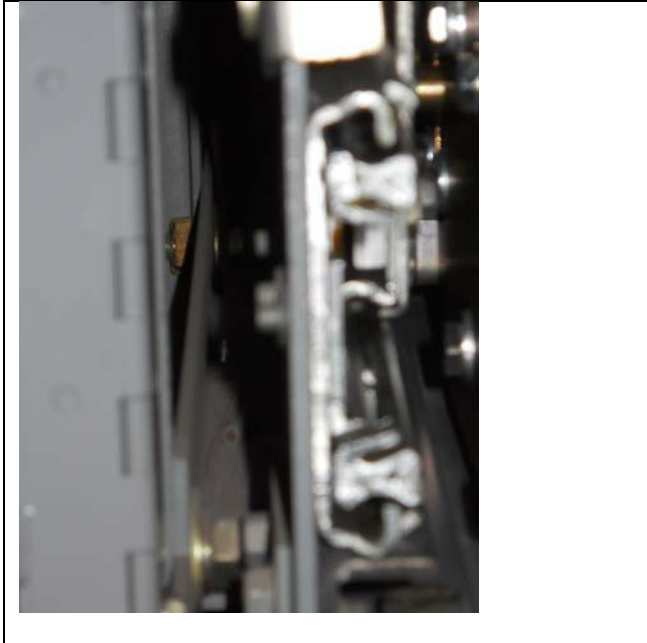
**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-051**

Equipment ID No. EJS-LDC2A Equip. Class 3-Medium voltage, Metal-clad Switchgear

Equipment Description REMOTE SHUTDOWN SYSTEM CONTROL POWER: 1HVR\*UC11A,1HVR\*UC1A



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-052**

Equipment ID No. EJS-SWG1A Equip. Class<sup>1</sup> 3-Medium Voltage, Metal-clad Switchgear

Equipment Description STANDBY SWGR RM 1A 480V SWG1A

Location: Bldg. CB Floor El. 098 Room, Area 1117

Manufacturer, Model, Etc. (optional but recommended) Gould Model EJS-SWG1

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Welded to floor sills.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Painted surfaces
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No cracks observed.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-052**

Equipment ID No. EJS-SWG1A Equip. Class 3-Medium Voltage, Metal-clad Switchgear

Equipment Description STANDBY SWGR RM 1A 480V SWG1A

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
248.000, EE-38A  
Verified in accordance with above dwgs Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U
- 

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-052**

Equipment ID No. EJS-SWG1A Equip. Class 3-Medium Voltage, Metal-clad Switchgear

Equipment Description STANDBY SWGR RM 1A 480V SWG1A

**Other Adverse Conditions**

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

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

ACB010-lower right side behind cradle appears to be small piece of wire or tie-wrap.  
AC002-small amount of trash on left side outside of the equipment track.  
ACB009-1 washer, 2 small machine screws, terminal wire and 1 clip on the right side  
ACB014-tie wraps on left side, lug on right side, also difficulty closing door on cubicle (can it possibly be adjusted to fit better without interference?)  
ACB003-small nut in the back right corner  
ACB004-machine screw on left side and nut on right side  
ACB011small machine screw front left corner, small wire in back left corner, wire lug in back right corner  
ACB006-tie wrap on right side(longer piece along the whole side)  
ACB007-piece of tie wrap on left side  
ACB012-unidentifiable foreign material no the left side, less than 2" long and approx the diameter of a tie wrap (~1/8"). Could be dust/bug.

Above items all considered to be housekeeping, not seismic issue.  
Ref. WR-00286241

Evaluated by: John Dunkelberg  Date: 10-4-012

David Bassi  10-4-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-052**

Equipment ID No. EJS-SWG1A Equip. Class 3-Medium Voltage, Metal-clad Switchgear

Equipment Description STANDBY SWGR RM 1A 480V SWG1A

**Photographs**



**Note:**



**Note:**



PAGE 1 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-053**

Equipment ID No. EJS-X1A Equip. Class<sup>1</sup> 4-Transformer

Equipment Description STANDBY SWGR ROOM 1A SWGR 1A PWR XFORMR 1A

Location: Bldg. CB Floor El. 098 Room, Area 1117

Manufacturer, Model, Etc. (optional but recommended) Southern Transformer Model T5049

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Welded to floor sills.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Painted surfaces, no corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No cracks observed.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-053**

Equipment ID No. EJS-X1A Equip. Class 4-Transformer

Equipment Description STANDBY SWGR ROOM 1A SWGR 1A PWR XFORMR 1A

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

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

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

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-053**

Equipment ID No. EJS-X1A Equip. Class 4-Transformer

Equipment Description STANDBY SWGR ROOM 1A SWGR 1A PWR XFORMR 1A

**Other Adverse Conditions**


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

---

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

None

---

Evaluated by: John Dunkelberg  Date: 10-4-2012

David Bassi  10-4-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-053**

Equipment ID No. EJS-X1A Equip. Class 4-Transformer

Equipment Description STANDBY SWGR ROOM 1A SWGR 1A PWR XFORMR 1A

**Photographs**



**Note:**

**Note:**

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-054**

Equipment ID No. EJS-X2A Equip. Class<sup>1</sup> 4-Transformer

Equipment Description AUX BLDG STANDBY SWGR 2A PWR XFORMR

Location: Bldg. AB Floor El. 141 Room, Area 6306

Manufacturer, Model, Etc. (optional but recommended) Southern Transformer Model T5051

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Welded to floor sill.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No cracks visible

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-054**

Equipment ID No. EJS-X2A Equip. Class 4

Equipment Description AUX BLDG STANDBY SWGR 2A PWR XFORMR

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
Spec 248.000, EE-038E  
Verified in accordance with above dwgs Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-054**

Equipment ID No. EJS-X2A Equip. Class 4

Equipment Description AUX BLDG STANDBY SWGR 2A PWR XFORMR

**Other Adverse Conditions**

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

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

None



Evaluated by: Matt Keeney Date: 10/5/2012



John Dunkelberg 10/5/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-054**

Equipment ID No. EJS-X2A Equip. Class 4-Transformer

Equipment Description AUX BLDG STANDBY SWGR 2A PWR XFORMR

**Photographs**



**Note:**

**Note:**



Status: Y  N  U

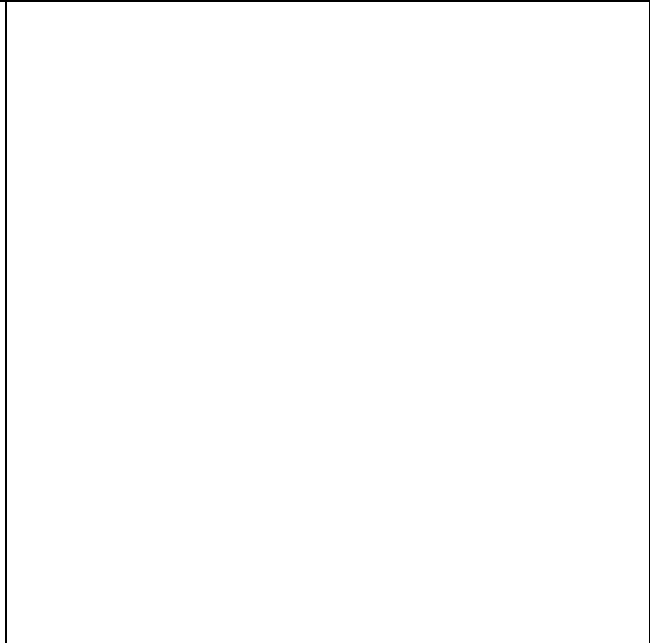
**Seismic Walkdown Checklist (SWC) SWEL1-054**

Equipment ID No. EJS-X2A Equip. Class 4-Transformer

Equipment Description AUX BLDG STANDBY SWGR 2A PWR XFORMR



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-055**

Equipment ID No. EJS-X3A Equip. Class<sup>1</sup> 4-Transformer

Equipment Description N/A

Location: Bldg. SCT Floor El. 136 Room, Area N/A

Manufacturer, Model, Etc. (optional but recommended) Southern Transformer Model T5115

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Transformer is welded to sill plate.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted surfaces, no visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracking visible around sills.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-055**

Equipment ID No. EJS-X3A Equip. Class 4-Transformer

Equipment Description N/A

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
EE-038K, EC-047BH, 0242.533-265-142  
Plug welds on the inside of transformer case could not be visually  
verified. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y N U
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-055**

Equipment ID No. EJS-X3A Equip. Class 4-Transformer

Equipment Description N/A

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**Other Adverse Conditions**

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

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

None

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Evaluated by: Matt Keeney Date: 10-4-2012



John Dunkelberg 10-4-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-055**

Equipment ID No. EJS-X3A Equip. Class 4-Transformer

Equipment Description N/A

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-055**

Equipment ID No. EJS-X3A Equip. Class 4-Transformer

Equipment Description N/A



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-056**

Equipment ID No. ENB-BAT01A Equip. Class<sup>1</sup> 15-Battery Racks

Equipment Description STANDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATTERY BANK 1A

Location: Bldg. CB Floor El. 116 Room, Area N/A

Manufacturer, Model, Etc. (optional but recommended) Nuclear Logistics Model NCN-29

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
  
See Q. 5.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation?  
painted Y N U N/A
  
4. Is the anchorage free of visible cracks in the concrete near the anchors?  
No cracks visible Y N U N/A

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-056**

Equipment ID No. ENB-BAT01A Equip. Class 15-Battery Racks

Equipment Description STANDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATTERY BANK 1A

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.)

EE-038C, EE-038AA

Verified in accordance with above dwgs

Missing 2 weldments to sills at battery 42 and 38

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

Missing 2 welds, see Q 5 above

---

**Interaction Effects**

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

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

Light fixture "S" hook closed

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

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



PAGE 3 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-056**

Equipment ID No. ENB-BAT01A Equip. Class 15-Battery Racks

Equipment Description STANDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATTERY BANK 1A

**Other Adverse Conditions**

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

See comments

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

Missing welds, see question 5.  
Ref. LB-07

E&DCR C-20908A evaluated and approved deletion of these welds. Condition in compliance with design/licensing basis.

Evaluated by: John Dunkelberg  Date: 10/4/2012

David Bassi  10/4/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-056**

Equipment ID No. ENB-BAT01A Equip. Class 15-Battery Racks

Equipment Description STANDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATTERY BANK 1A

**Photographs**



**Note:**




**Note:**

Status: Y  N  U


**Seismic Walkdown Checklist (SWC) SWEL1-056**

Equipment ID No. ENB-BAT01A Equip. Class 15-Battery Racks

Equipment Description STANDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATTERY BANK 1A



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-057**

Equipment ID No. ENB-CHGR1A Equip. Class<sup>1</sup> 16-Battery Chagers and Inverters

Equipment Description STDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATRY BANK 1A CHARGER  
1A

Location: Bldg. CB Floor El. 116 Room, Area 1214

Manufacturer, Model, Etc. (optional but recommended) Power Conversion Model 3SD-130-300

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware?  
Welded to embed plate Y N U N/A
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation?  
painted Y N U N/A
  
4. Is the anchorage free of visible cracks in the concrete near the anchors?  
No cracks visible Y N U N/A

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-057**

Equipment ID No. ENB-CHGR1A Equip. Class 16-Battery Chagers and Inverters

Equipment Description STDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATRY BANK 1A CHARGER 1A

- 
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.)  
EE-038C, 248.000  
Verified in accordance with the above dwgs
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y  N  U
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-057**

Equipment ID No. ENB-CHGR1A Equip. Class 16-Battery Chagers and Inverters

Equipment Description STDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATRY BANK 1A CHARGER  
1A

**Other Adverse Conditions**

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

See comments

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

Missing 2 screws on interior mounting panel.

Ref. CR-RBS-2012-6326; LB-08

Evaluated by: John Dunkelberg



Date: 10/4/2012

David Bassi



10/4/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-057**

Equipment ID No. ENB-CHGR1A Equip. Class 16-Battery Chagers and Inverters

Equipment Description STDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATRY BANK 1A CHARGER  
1A

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-057**

Equipment ID No. ENB-CHGR1A Equip. Class 16-Battery Chagers and Inverters

Equipment Description STDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATRY BANK 1A CHARGER  
1A



**Note:**

**Note:**



PAGE 1 OF 6

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-058**

Equipment ID No. ENB-INV01A Equip. Class<sup>1</sup> 16-Battery Chagers and Inverters

Equipment Description ENB\*INV01A VITAL BUS A INVERTER

Location: Bldg. CB Floor El. 098 Room, Area N/A

Manufacturer, Model, Etc. (optional but recommended) Solid State Controls Model 85-VC0200-46

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Welded to structure framework base plate anchored to floor with expansion anchors.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted to base plate, plated anchors, no rust.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 6

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-058**

Equipment ID No. ENB-INV01A Equip. Class 16-Battery Chagers and Inverters

Equipment Description ENB\*INV01A VITAL BUS A INVERTER

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

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

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

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

PAGE 3 OF 6

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-058**

Equipment ID No. ENB-INV01A Equip. Class 16-Battery Chagers and Inverters

Equipment Description ENB\*INV01AVITAL BUS AINVERTER

---

**Other Adverse Conditions**

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

See comments

---

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

Could not open component for interior inspection. Back side attachment not visible.

---

Evaluated by: John Dunkelberg



Date: 10/4/2012

David Bassi



10/4/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-058**

Equipment ID No. ENB-INV01A Equip. Class 16-Battery Chagers and Inverters

Equipment Description ENB\*INV01A VITAL BUS A INVERTER

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-058**

Equipment ID No. ENB-INV01A Equip. Class 16-Battery Chagers and Inverters

Equipment Description ENB\*INV01AVITAL BUS A INVERTER



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-058**

Equipment ID No. ENB-INV01A Equip. Class 16-Battery Chagers and Inverters

Equipment Description ENB\*INV01A VITAL BUS A INVERTER



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-060**

Equipment ID No. ENB-PNL02A Equip. Class<sup>1</sup> 14-Distribution Panels & Auto Transfer Switches

Equipment Description N/A

Location: Bldg. CB Floor El. 136 Room, Area 1310

Manufacturer, Model, Etc. (optional but recommended) Square D Model ENB-PNL02

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Could not observe panel attachment to wall due to adjacent equipment and internal mounting of hardware. Tools required to open panel
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Location in MCR, not susceptible to oxidation, controlled environment. Other nearby equipment showed no signs of oxidation
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
Panel is mounted to a horizontal channel, (3 total) that are in turn, mounted to embedded struts (vertical). No cracks observed.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-060**

Equipment ID No. ENB-PNL02A Equip. Class 14-Distribution Panels & Auto Transfer Switches

Equipment Description N/A

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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



PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-060**

Equipment ID No. ENB-PNL02A Equip. Class 14-Distribution Panels & Auto Transfer Switches

Equipment Description N/A

---

**Other Adverse Conditions**

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

---

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

See Question 2, could not observe panel attachment anchors inside panel.  
See Question 9, could not observe the cables that enter from the bottom.

Ref. CR-RBS-2012-06877

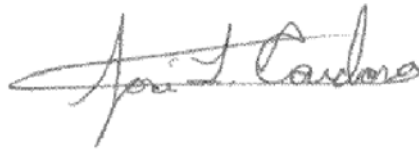
---

Evaluated by: J. Dunkelberg



Date: 10/12/12

J. Cardona



10/12/12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-060**

Equipment ID No. ENB-PNL02A Equip. Class 14-Distribution Panels & Auto Transfer Switches

Equipment Description N/A

**Photographs**



**Note:**



**Note:**



**Note:**

**Note:**

PAGE 1 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-061**

Equipment ID No. ENB-SWG01A Equip. Class<sup>1</sup> 2-Low Voltage Switchgear & Breaker Panel

Equipment Description 125V DC SWITCHGEAR 1A

Location: Bldg. CB Floor El. 098 Room, Area 1117

Manufacturer, Model, Etc. (optional but recommended) Gould Model 54237-B0001 / 54237-D0026-A

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Welded to sill plate.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Painted, no corrosion
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No cracks observed in concrete.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-061**

Equipment ID No. ENB-SWG01A Equip. Class 2-Low Voltage Switchgear & Breaker Panel

Equipment Description 125V DC SWITCHGEAR 1A

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
248.000, EE-038A  
Verified in accordance with above dwgs Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y N U

---

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-061**

Equipment ID No. ENB-SWG01A Equip. Class 2-Low Voltage Switchgear & Breaker Panel

Equipment Description 125V DC SWITCHGEAR 1A

**Other Adverse Conditions**

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


See comments

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

ENB-SWG01A ACB570 observed pieces of white material resembling insulation (hard). Judged to be housekeeping item.

Ref CR-RBS-2012-6526

WR 00287352

Evaluated by: John Dunkelberg  Date: 10-4-2012

David Bassi  10-4-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-061**

Equipment ID No. ENB-SWG01A Equip. Class 2-Low Voltage Switchgear & Breaker Panel

Equipment Description 125V DC SWITCHGEAR 1A

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-062**

Equipment ID No. ENS-SWG1A Equip. Class<sup>1</sup> 3-Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V STANDBY SWGR BUS 1A

Location: Bldg. CB Floor El. 098 Room, Area 1117

Manufacturer, Model, Etc. (optional but recommended) Asea Brown Boveri Model 5HK-250

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Switchgear is welded to sill.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Surfaces are painted, no visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No visible cracks in concrete.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-062**

Equipment ID No. ENS-SWG1A Equip. Class 3-Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V STANDBY SWGR BUS 1A

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
0242.521-102-002, EC-058C  
Verified in accordance with above dwgs Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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



PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-062**

Equipment ID No. ENS-SWG1A Equip. Class 3-Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V STANDBY SWGR BUS 1A

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**Other Adverse Conditions**

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

See comments

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

Lower hinge pin raised @ ACB08.

Upper hinge pin raised @ ACB04.

Middle hinge pin raised @ ACB06.

Piece of ziptie (ty-wrap) on right side ACB07.

Upper wire tie to cabinet at door is broken on ACB08 hinge side.

Ref. LB-06 and CR-RBS-2012-6312

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Evaluated by: Matt Keeney Date: 10-4-2012



John Dunkelberg 10-4-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-062**

Equipment ID No. ENS-SWG1A Equip. Class 3-Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V STANDBY SWGR BUS 1A

**Photographs**



**Note:**




**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-062**

Equipment ID No. ENS-SWG1A Equip. Class 3-Medium Voltage, Metal-clad Switchgear

Equipment Description 4160V STANDBY SWGR BUS 1A

	
<p><b>Note:</b></p>	<p><b>Note:</b></p>

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-063**

Equipment ID No. H13-P693 Equip. Class<sup>1</sup> 20-Instrumentation and Control Panel

Equipment Description RPS LOGIC DIV C

Location: Bldg. CB Floor El. 136 Room, Area 1310

Manufacturer, Model, Etc. (optional but recommended) General Electric Model 442X822

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Bolted per GE mounting pattern with 5/8" dia. Bolts, total of 16 bolts, 8 per bay. (2 bay PNL) Bolt spacing = 6" o.c., front & back sides of panel.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No corrosion observed
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Anchor to floor framing steel.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-063**

Equipment ID No. H13-P693 Equip. Class 20-Instrumentation and Control Panel

Equipment Description RPS LOGIC DIV C

---

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.)  
Ref. doc: 8224-600-000-048A. No documentation for number of bolts in panel attachment. Bolts installed in all holes in panel and support structure.

CR-RBS-2012-6238 initiated.  
Ref LB-03

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

**Interaction Effects**

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

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A  
Suspended ceiling over head is designed for seismic event.

9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A  
Sufficient slack provided in bottom entry cables.

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-063**

Equipment ID No. H13-P693 Equip. Class 20-Instrumentation and Control Panel

Equipment Description RPS LOGIC DIV C

---

**Other Adverse Conditions**

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


Temp. work table set up on front side of panel, potential interaction with panel switches/instruments. See AWC-1063 for photos and evaluation.

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

Ref. CR-RBS-2012-6238 for lack of documentation issue  
Ref. LB-03

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Evaluated by: John Dunkelberg  Date: 10-1-2012

Jose' Cardona  10-1-2012

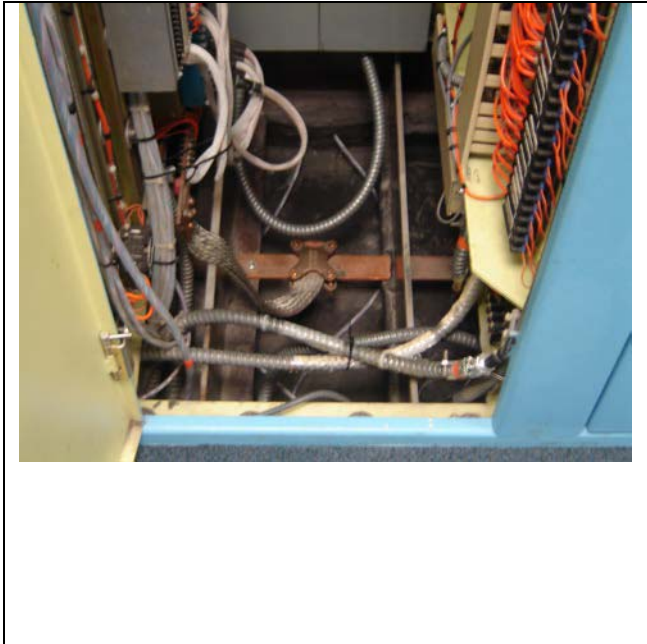
Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-063**

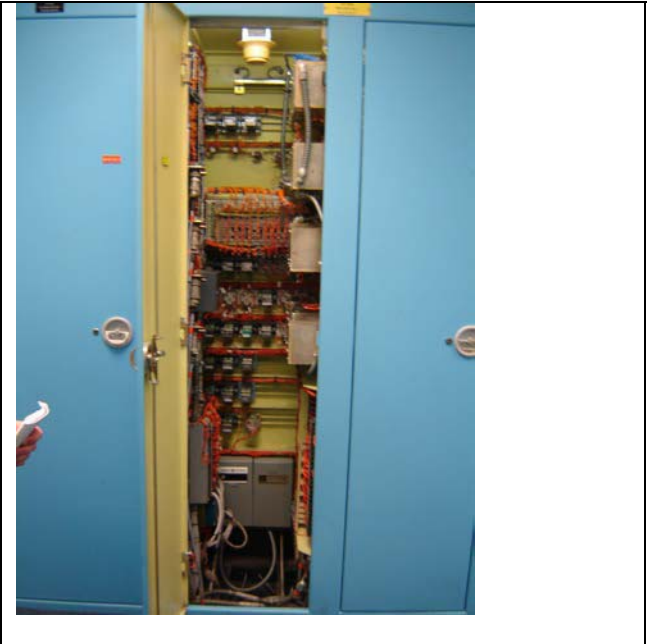
Equipment ID No. H13-P693 Equip. Class 20-Instrumentation and Control Panel

Equipment Description RPS LOGIC DIV C

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-063**

Equipment ID No. H13-P693 Equip. Class 20-Instrumentation and Control Panel

Equipment Description RPS LOGIC DIV C



**Note:** Anchor bolts at rear of cabinet



**Note:** another view of cabinet



PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-064**

Equipment ID No. H22-P004 Equip. Class<sup>1</sup> 18-Instrument Racks

Equipment Description RX VSL LEVEL AND PRESS LOCAL PNL A

Location: Bldg. RB Floor El. 114 Room, Area 7207

Manufacturer, Model, Etc. (optional but recommended) General Electric Model 368X543BA

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
4 bolted connections mounting the panel to unistrut. No bent, broken, loose, or missing hardware.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Panel is mounted to unistrut.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-064**

Equipment ID No. H22-P004 Equip. Class 18-Instrument Racks

Equipment Description RX VSL LEVEL AND PRESS LOCAL PNL A

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-064**

Equipment ID No. H22-P004 Equip. Class 18-Instrument Racks

Equipment Description RX VSL LEVEL AND PRESS LOCAL PNL A

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**Other Adverse Conditions**

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

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

None

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Evaluated by: Jason Halsey Date: 10-9-2012



Matt Keeney 10-9-2012


Status: Y  N  U


**Seismic Walkdown Checklist (SWC) SWEL1-064**

Equipment ID No. H22-P004 Equip. Class 18-Instrument Racks

Equipment Description RX VSL LEVEL AND PRESS LOCAL PNL A

**Photographs**


<b>Note:</b>



<b>Note:</b>

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-064**

Equipment ID No. H22-P004 Equip. Class 18-Instrument Racks

Equipment Description RX VSL LEVEL AND PRESS LOCAL PNL A


<p><b>Note:</b></p>

<p><b>Note:</b></p>

PAGE 1 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-065**

Equipment ID No. HVC-ACU1A Equip. Class<sup>1</sup> 10-Air Handlers

Equipment Description CONTROL ROOM AIR HLDG UNIT ACU1A

Location: Bldg. CB Floor El. 116 Room, Area 1201

Manufacturer, Model, Etc. (optional but recommended) N/A

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
No missing, loose or broken hardware.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
All anchorage bolts/nuts have a coating of paint.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No visible cracks in concrete pad and concrete is painted, minor honeycomb.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-065**

Equipment ID No. HVC-ACU1A Equip. Class 10-Air Handlers

Equipment Description CONTROL ROOM AIR HLDG UNIT ACU1A

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-065**

Equipment ID No. HVC-ACU1A Equip. Class 10-Air Handlers

Equipment Description CONTROL ROOM AIR HLDG UNIT ACU1A

---

**Other Adverse Conditions**

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

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

None

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Evaluated by: Jason Halsey Date: 10/2/2012



Matt Keeney 10/2/2012



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-065**

Equipment ID No. HVC-ACU1A Equip. Class 10-Air Handlers

Equipment Description CONTROL ROOM AIR HLDG UNIT ACU1A

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-065**

Equipment ID No. HVC-ACU1A Equip. Class 10-Air Handlers

Equipment Description CONTROL ROOM AIR HLDG UNIT ACU1A



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-065**

Equipment ID No. HVC-ACU1A Equip. Class 10-Air Handlers

Equipment Description CONTROL ROOM AIR HLDG UNIT ACU1A



**Note:**



**Note:**

PAGE 1 OF 8

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-066**

Equipment ID No. HVC-ACU2A Equip. Class<sup>1</sup> 10-Air Handlers

Equipment Description CONTROL BLDG AIR HLDG UNIT ACU2A

Location: Bldg. CB Floor El. 070 Room, Area 1011

Manufacturer, Model, Etc. (optional but recommended) Buffalo Forge Model 29B5

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
ACU is Bolted to a raised concrete pad on all four sides.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted, no corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks visible.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-066**

Equipment ID No. HVC-ACU2A Equip. Class 10-Air Handlers

Equipment Description CONTROL BLDG AIR HLDG UNIT ACU2A

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures?  
ACU is not a soft target. Large duct pieces are installed over the ACU  
but are supported by very rigid support structures. Y  N  U  N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,  
and masonry block walls not likely to collapse onto the equipment?  
Suspended light fixture adjacent to ACU can fail due to seismic event. It  
will target valves and is considered acceptable. HVK-V118, HVK-V210,  
HVK-V126, HVK-V117 Y  N  U  N/A
9. Do attached lines have adequate flexibility to avoid damage?  
Attached cables and attached ducts are either flexible or are attached  
with flexible ductwork (expansion joint). Y  N  U  N/A
10. Based on the above seismic interaction evaluations, is equipment free  
of potentially adverse seismic interaction effects? Y  N  U

PAGE 3 OF 8

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-066**

Equipment ID No. HVC-ACU2A Equip. Class 10-Air Handlers

Equipment Description CONTROL BLDG AIR HLDG UNIT ACU2A

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**Other Adverse Conditions**

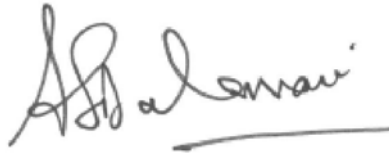
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U

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

None

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Evaluated by: A.S. Dalawari Date: 10/1/2012



Matt Keeney 10/1/2012


Status: Y  N  U


**Seismic Walkdown Checklist (SWC) SWEL1-066**

Equipment ID No. HVC-ACU2A Equip. Class 10-Air Handlers

Equipment Description CONTROL BLDG AIR HLDG UNIT ACU2A

**Photographs**

 <p>A photograph showing two vertical pipes with grey handles against a green metal panel. A red timestamp '1 2:01PM' is visible in the bottom right corner of the image.</p>
<b>Note:</b>

 <p>A photograph showing a large cylindrical air handler unit with a green metal panel in the foreground. A red timestamp '1 2:01PM' is visible in the bottom right corner of the image.</p>
<b>Note:</b>

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-066**

Equipment ID No. HVC-ACU2A Equip. Class 10-Air Handlers

Equipment Description CONTROL BLDG AIR HLDG UNIT ACU2A



**Note:**



**Note:**



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-066**

Equipment ID No. HVC-ACU2A Equip. Class 10-Air Handlers

Equipment Description CONTROL BLDG AIR HLDG UNIT ACU2A



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-066**

Equipment ID No. HVC-ACU2A Equip. Class 10-Air Handlers

Equipment Description CONTROL BLDG AIR HLDG UNIT ACU2A



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-066**

Equipment ID No. HVC-ACU2A Equip. Class 10-Air Handlers

Equipment Description CONTROL BLDG AIR HLDG UNIT ACU2A



**Note:**



**Note:**

PAGE 1 OF 6

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-067**

Equipment ID No. HVR-UC5 Equip. Class<sup>1</sup> 10-Air Handlers

Equipment Description HPCS PUMP ROOM UNIT COOLER

Location: Bldg. AB Floor El. 114 Room, Area 6201

Manufacturer, Model, Etc. (optional but recommended) Buffalo Forge Model 29B5

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
No 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  
All surfaces are painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Heavy painted concrete pad, no cracks visible.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 6

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-067**

Equipment ID No. HVR-UC5 Equip. Class 10-Air Handlers

Equipment Description HPCS PUMP ROOM UNIT COOLER

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-067**

Equipment ID No. HVR-UC5 Equip. Class 10-Air Handlers

Equipment Description HPCS PUMP ROOM UNIT COOLER

**Other Adverse Conditions**

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

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

None



Evaluated by: J. Halsey Date: 10/10/12



D. Bassi 10/10/12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-067**

Equipment ID No. HVR-UC5 Equip. Class 10-Air Handlers

Equipment Description HPCS PUMP ROOM UNIT COOLER

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-067**

Equipment ID No. HVR-UC5 Equip. Class 10-Air Handlers

Equipment Description HPCS PUMP ROOM UNIT COOLER



**Note:**



**Note:**



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-067**

Equipment ID No. HVR-UC5 Equip. Class 10-Air Handlers

Equipment Description HPCS PUMP ROOM UNIT COOLER



**Note:**

**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-068**

Equipment ID No. HVC-AOD12A Equip. Class<sup>1</sup> 7-Pneumatic-operated valve

Equipment Description 1HVC\*ACU2A AIR OUTLET (CD-2-89')

Location: Bldg. CB Floor El. 070 Room, Area 1000

Manufacturer, Model, Etc. (optional but recommended) Quality Air Design Model DD-5617-2

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
In-line AOD attached to duct on both sides. Bolts visible on 3 sides
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Minor surface oxidation on the channel. Acceptable
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Attached to duct both sides

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-068**

Equipment ID No. HVC-AOD12A Equip. Class 7-Pneumatic-operated valve

Equipment Description 1HVC\*ACU2A AIR OUTLET (CD-2-89')

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures?  
AOD is Not a soft target. (no targets in the area as well) Y  N  U  N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,  
and masonry block walls not likely to collapse onto the equipment?  
No block walls. Overhead equipment is not likely to collapse Y  N  U  N/A
9. Do attached lines have adequate flexibility to avoid damage?  
Attached cable to AOD is flexible Y  N  U  N/A
10. Based on the above seismic interaction evaluations, is equipment free  
of potentially adverse seismic interaction effects? Y  N  U

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-068**

Equipment ID No. HVC-AOD12A Equip. Class 7-Pneumatic-operated valve

Equipment Description 1HVC\*ACU2A AIR OUTLET (CD-2-89')

**Other Adverse Conditions**

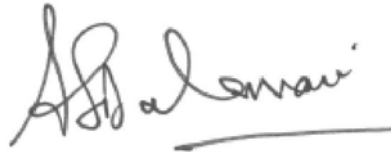
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U

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

None



Evaluated by: D. Bassi Date: 10-1-2012



A. S. Dalawari 10-1-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-068**

Equipment ID No. HVC-AOD12A Equip. Class 7-Pneumatic-operated valve

Equipment Description 1HVC\*ACU2A AIR OUTLET (CD-2-89')

**Photographs**



**Note:**




**Note:**


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-068**

Equipment ID No. HVC-AOD12A Equip. Class 7-Pneumatic-operated valve

Equipment Description 1HVC\*ACU2A AIR OUTLET (CD-2-89')


<b>Note:</b>


<b>Note:</b>

PAGE 1 OF 6

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-069**

Equipment ID No. HVC-AOD5B Equip. Class<sup>1</sup> 7-Pneumatic-operated valve

Equipment Description 1HVC\*FN2B AIR INLET (CA-2-80')

Location: Bldg. CB Floor El. 070 Room, Area N/A

Manufacturer, Model, Etc. (optional but recommended) Quality Air Design Model DD-5617-2

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Anchorage was 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  
Painted surfaces, no corrosion visible.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks visible.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-069**

Equipment ID No. HVC-AOD5B Equip. Class 7-Pneumatic-operated valve

Equipment Description 1HVC\*FN2B AIR INLET (CA-2-80')

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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



PAGE 3 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-069**

Equipment ID No. HVC-AOD5B Equip. Class 7-Pneumatic-operated valve

Equipment Description 1HVC\*FN2B AIR INLET (CA-2-80')

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**Other Adverse Conditions**

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

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

None

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Evaluated by: Jason Halsey Date: 10/8/2012



Matt Keeney 10/8/2012

Status: Y  N  U


**Seismic Walkdown Checklist (SWC) SWEL1-069**

Equipment ID No. HVC-AOD5B Equip. Class 7-Pneumatic-operated valve

Equipment Description 1HVC\*FN2B AIR INLET (CA-2-80')

**Photographs**


<b>Note:</b>



<b>Note:</b>


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-069**

Equipment ID No. HVC-AOD5B Equip. Class 7-Pneumatic-operated valve

Equipment Description 1HVC\*FN2B AIR INLET (CA-2-80')


<b>Note:</b>


<b>Note:</b>


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-069**

Equipment ID No. HVC-AOD5B Equip. Class 7-Pneumatic-operated valve

Equipment Description 1HVC\*FN2B AIR INLET (CA-2-80')


<b>Note:</b>


<b>Note:</b>

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-070**

Equipment ID No. HVC-AOD6A Equip. Class<sup>1</sup> 7-Pneumatic-operated valve

Equipment Description 1HVC\*ACU1A AIR OUTLET (CD-1-130')

Location: Bldg. CB Floor El. 115 Room, Area 1200

Manufacturer, Model, Etc. (optional but recommended) Quality Air Design Model DD-5617-2

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
All anchorage hardware was intact and free of bent, broken, or loose pieces.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No corrosion was noted. Anchorage hardware was either painted or galvanized.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Component is mounted in-line with the associated ducting and is not anchored to concrete.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-070**

Equipment ID No. HVC-AOD6A Equip. Class 7-Pneumatic-operated valve

Equipment Description 1HVC\*ACU1A AIR OUTLET (CD-1-130')

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-070**

Equipment ID No. HVC-AOD6A Equip. Class 7-Pneumatic-operated valve

Equipment Description 1HVC\*ACU1A AIR OUTLET (CD-1-130')

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**Other Adverse Conditions**


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

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

N/A

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Evaluated by: Jason Halsey Date: 10-2-2012



Matt Keeney 10-2-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-070**

Equipment ID No. HVC-AOD6A Equip. Class 7-Pneumatic-operated valve

Equipment Description 1HVC\*ACU1A AIR OUTLET (CD-1-130')

**Photographs**



**Note:** Air operators



**Note:** Bottom side of damper housing



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-070**

Equipment ID No. HVC-AOD6A Equip. Class 7-Pneumatic-operated valve

Equipment Description 1HVC\*ACU1A AIR OUTLET (CD-1-130')



**Note:** Mechanical limit switches on side of damper



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-071**

Equipment ID No. HVC-CH1A Equip. Class<sup>1</sup> 0-Other

Equipment Description CONTROL ROOM AIR HLDG UNIT HEATER CH1A

Location: Bldg. CB Floor El. 115 Room, Area N/A

Manufacturer, Model, Etc. (optional but recommended) Nutherm Model 1023-51751-33

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Clean and free of damage visible on three sides.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No corrosion noted.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Not mounted to concrete.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-071**

Equipment ID No. HVC-CH1A Equip. Class 0-Other

Equipment Description CONTROL ROOM AIR HLDG UNIT HEATER CH1A

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
See document 0216.200-113-032  
Verified in accordance with above dwg  
Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-071**

Equipment ID No. HVC-CH1A Equip. Class 0-Other

Equipment Description CONTROL ROOM AIR HLDG UNIT HEATER CH1A

---

**Other Adverse Conditions**

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

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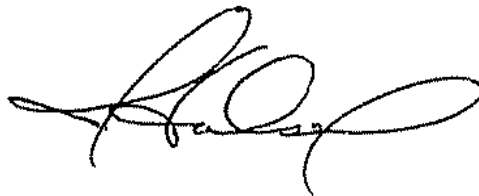
**Comments** (Additional pages may be added as necessary)

None

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Evaluated by: Matt Keeney Date: 10/2/2012



Jason Halsey 10/2/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-071**

Equipment ID No. HVC-CH1A Equip. Class 0-Other

Equipment Description CONTROL ROOM AIR HLDG UNIT HEATER CH1A

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

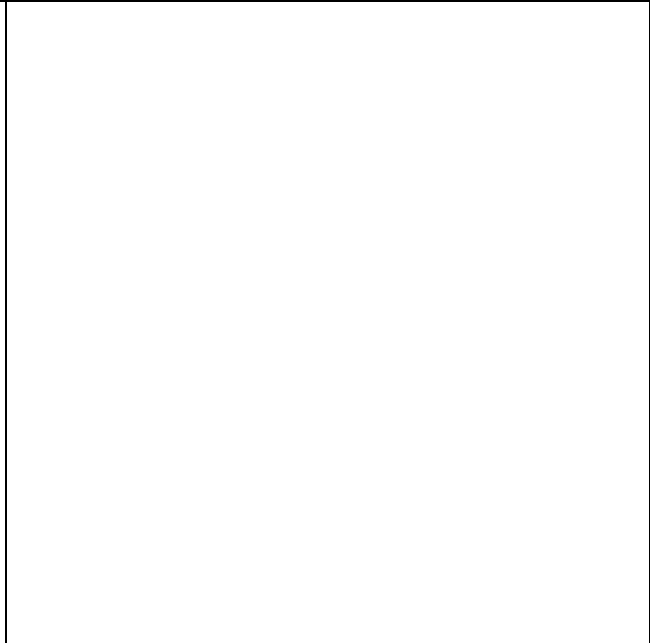
**Seismic Walkdown Checklist (SWC) SWEL1-071**

Equipment ID No. HVC-CH1A Equip. Class 0-Other

Equipment Description CONTROL ROOM AIR HLDG UNIT HEATER CH1A



**Note:**



**Note:**

PAGE 1 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-072**

Equipment ID No. HVC-CH3A Equip. Class<sup>1</sup> 0-Other

Equipment Description CNTRL BLDG BATTERY ROOM 1A COIL HTR

Location: Bldg. CB Floor El. 116 Room, Area 1200

Manufacturer, Model, Etc. (optional but recommended) N/A

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
No missing, bent, broken, loose hardware.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
No corrosion visible
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No cracking noted around embed. mounting plate.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-072**

Equipment ID No. HVC-CH3A Equip. Class 0-Other

Equipment Description CNTRL BLDG BATTERY ROOM 1A COIL HTR

5. Is the anchorage configuration consistent 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 0216.130-995-013, (28) 0.375" diameter bolts installed.  
See drawings 12210-EZ-539ZC-7, 12210-BZ-539YD-2 1 and 2 of 4.  
Verified in accordance with above dwgs Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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



PAGE 3 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-072**

Equipment ID No. HVC-CH3A Equip. Class 0-Other

Equipment Description CNTRL BLDG BATTERY ROOM 1A COIL HTR

**Other Adverse Conditions**

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

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

None



Evaluated by: Jason Halsey Date: 10/2/2012



Matt Keeney 10/2/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-072**

Equipment ID No. HVC-CH3A Equip. Class 0-Other

Equipment Description CNTRL BLDG BATTERY ROOM 1A COIL HTR

**Photographs**



**Note:**




**Note:**


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-072**

Equipment ID No. HVC-CH3A Equip. Class 0-Other

Equipment Description CNTRL BLDG BATTERY ROOM 1A COIL HTR


<b>Note:</b>



<b>Note:</b>

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-072**

Equipment ID No. HVC-CH3A Equip. Class 0-Other

Equipment Description CNTRL BLDG BATTERY ROOM 1A COIL HTR


<p><b>Note:</b></p>

<p><b>Note:</b></p>

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-073**

Equipment ID No. HVC-FN2A Equip. Class<sup>1</sup> 9-Fans

Equipment Description STBY SWGR RETURN FAN

Location: Bldg. CB Floor El. 070 Room, Area 1000

Manufacturer, Model, Etc. (optional but recommended) N/A

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Bolted to support structure with (4) 11/16" bolts on each side. Bolt spacing approx 9" oc
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
Steel support structure attached to concrete wall

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-073**

Equipment ID No. HVC-FN2A Equip. Class 9-Fans

Equipment Description STBY SWGR RETURN FAN

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
0215.350-073-001 Rev 300  
Verified in accordance with above dwg Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-073**

Equipment ID No. HVC-FN2A Equip. Class 9-Fans

Equipment Description STBY SWGR RETURN FAN

**Other Adverse Conditions**

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

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

None



Evaluated by: M. Keeney Date: 10-1-2012



D. Bassi 10-1-2012


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-073**

Equipment ID No. HVC-FN2A Equip. Class 9-Fans

Equipment Description STBY SWGR RETURN FAN

**Photographs**



**Note:**



**Note:**



Status: Y  N  U

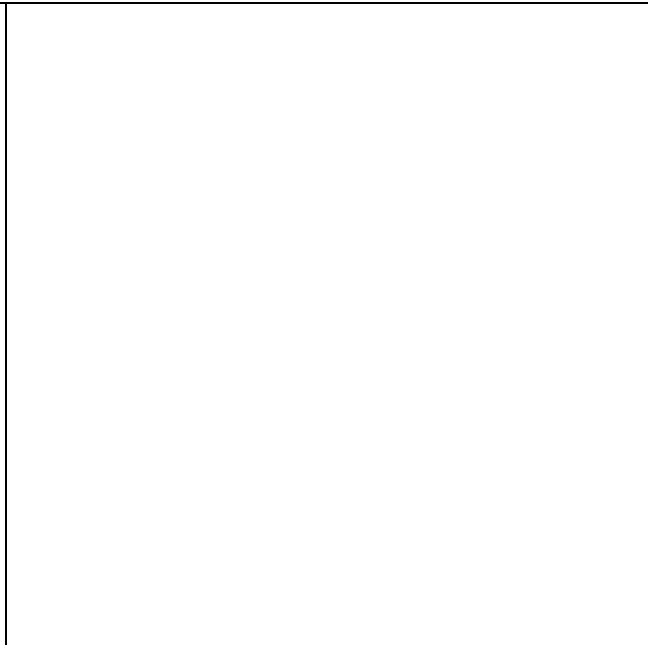
**Seismic Walkdown Checklist (SWC) SWEL1-073**

Equipment ID No. HVC-FN2A Equip. Class 9-Fans

Equipment Description STBY SWGR RETURN FAN



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-074**

Equipment ID No. HVC-FN3D Equip. Class<sup>1</sup> 9-Fans

Equipment Description BATTERY ROOM 1A EXHAUST FAN

Location: Bldg. CB Floor El. 116 Room, Area N/A

Manufacturer, Model, Etc. (optional but recommended) N/A

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Fan and motor are anchored to a concrete pad with six 1/4" anchor bolts.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Anchorage was painted and free of corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No visible cracks in the concrete near the anchors. Minor hairline cracks were noted in other areas of the grout pad, OK.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-074**

Equipment ID No. HVC-FN3D Equip. Class 9-Fans

Equipment Description BATTERY ROOM 1A EXHAUST FAN

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-074**

Equipment ID No. HVC-FN3D Equip. Class 9-Fans

Equipment Description BATTERY ROOM 1A EXHAUST FAN

**Other Adverse Conditions**

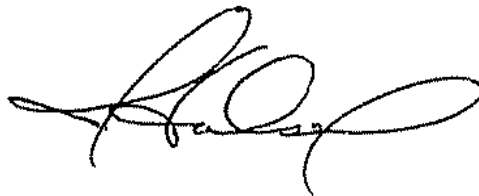
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U

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

None



Evaluated by: Matt Keeney Date: 10-2-2012



Jason Halsey 10-2-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-074**

Equipment ID No. HVC-FN3D Equip. Class 9-Fans

Equipment Description BATTERY ROOM 1A EXHAUST FAN

**Photographs**



**Note:** Minor hairline cracking in grout pad, away from anchor, OK.



**Note:** Minor hairline cracking in grout pad, away from anchor, OK.

PAGE 1 OF 9

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-075**

Equipment ID No. HVK-CHL1C Equip. Class<sup>1</sup> 11 – Chillers

Equipment Description HVKC01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1C

Location: Bldg. CB Floor El. 098 Room, Area 1124

Manufacturer, Model, Etc. (optional but recommended) Carrier Model 17FA443-B-114-14-10-S

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
The drawing shows 1 nut on each bolt. There are 2 nuts in the field. 4 bolts (2 on either end). Not a seismic issue
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Mild surface oxidation is present on all 4 bolts.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No visible cracks.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-075**

Equipment ID No. HVK-CHL1C Equip. Class 11 – Chillers

Equipment Description HVKC01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1C

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
Verified IAW drawing: 0216.210-085-003 Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures?  
There are two lights in the area; one fixture has gage that is properly  
shielded from impact, the other could impact unprotected small-bore  
pipe attached to HVK-chlic-cond. Not a seismic concern-schedule 80  
CS pipe is not a soft target Y  N  U  N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,  
and masonry block walls not likely to collapse onto the equipment?  
Overhead lights suspended adequately with chains. Y  N  U  N/A
9. Do attached lines have adequate flexibility to avoid damage? Y  N  U  N/A
10. Based on the above seismic interaction evaluations, is equipment free  
of potentially adverse seismic interaction effects? Y  N  U

PAGE 3 OF 9

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-075**

Equipment ID No. HVK-CHL1C Equip. Class 11 – Chillers

Equipment Description HVKC01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1C

**Other Adverse Conditions**

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

---

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

None

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Evaluated by: David Bassi Date: 10/1/2012



Matt Keeney 10/1/2012



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) - SWEL1-075**

Equipment ID No. HVK-CHL1C Equip. Class 11 – Chillers

Equipment Description HVKC01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1C

**Photographs**



**Note:**




**Note:**

Status: Y  N  U


**Seismic Walkdown Checklist (SWC) SWEL1-075**

Equipment ID No. HVK-CHL1C Equip. Class 11 – Chillers

Equipment Description HVKC01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1C



**Note:**



**Note:**


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-075**

Equipment ID No. HVK-CHL1C Equip. Class 11 – Chillers

Equipment Description HVKC01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1C


<b>Note:</b>


<b>Note:</b>

Status: Y  N  U

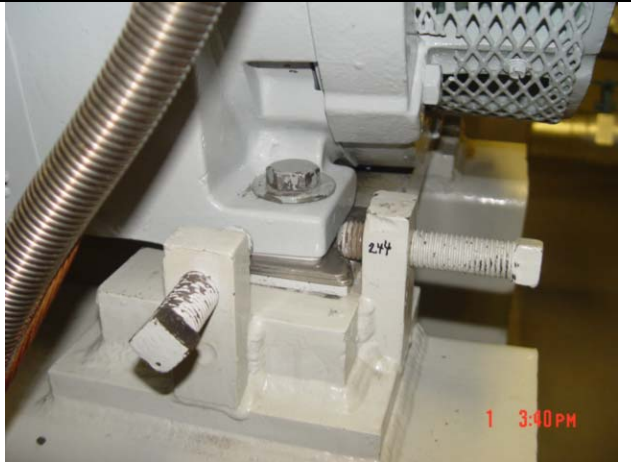
**Seismic Walkdown Checklist (SWC) SWEL1-075**

Equipment ID No. HVK-CHL1C Equip. Class 11 – Chillers

Equipment Description HVKC01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1C



**Note:**




**Note:**

Status: Y  N  U


**Seismic Walkdown Checklist (SWC) SWEL1-075**

Equipment ID No. HVK-CHL1C Equip. Class 11 – Chillers

Equipment Description HVKC01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1C



**Note:**



**Note:**

Status: Y  N  U

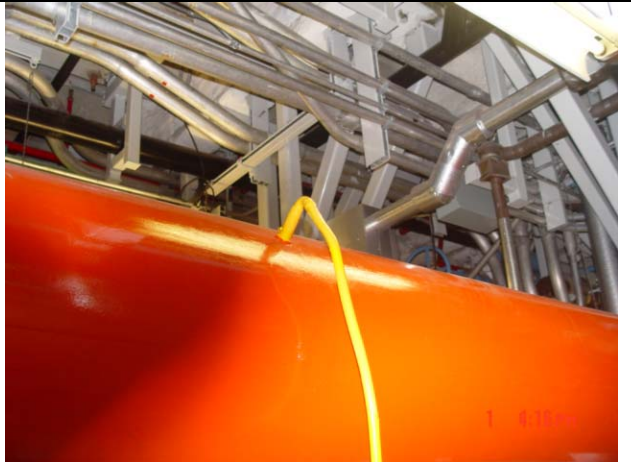
**Seismic Walkdown Checklist (SWC) SWEL1-075**

Equipment ID No. HVK-CHL1C Equip. Class 11 – Chillers

Equipment Description HVKC01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1C



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-076**

Equipment ID No. HVK-MOV20C Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTRL BLDG CHILLED WTR PMP 1C DISCH MTR OPERATED ISOL VLV

Location: Bldg. CB Floor El. 098 Room, Area 1110

Manufacturer, Model, Etc. (optional but recommended) Jamesbury Model 815L-S9273301-22HB-SL-C / 8226-EX-C-6

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
It is an inline valve with a horizontal operator
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Valve and operator are free of corrosion
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Not attached to concrete, inline

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.



PAGE 2 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-076**

Equipment ID No. HVK-MOV20C Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTRL BLDG CHILLED WTR PMP 1C DISCH MTR OPERATED ISOL VLV

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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



PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-076**

Equipment ID No. HVK-MOV20C Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTRL BLDG CHILLED WTR PMP 1C DISCH MTR OPERATED ISOL VLV

**Other Adverse Conditions**

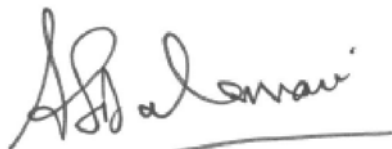
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U


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

None

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Evaluated by: A.S. Dalawari Date: 10-1-2012

  
D. Bassi 10-1-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-076**

Equipment ID No. HVK-MOV20C Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTRL BLDG CHILLED WTR PMP 1C DISCH MTR OPERATED ISOL VLV

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-077**

Equipment ID No. HVK-P1A Equip. Class<sup>1</sup> 5-Horizontal Pump

Equipment Description 1HVK\*P1A CONTROL BLDG CHILLED WATER PUMP

Location: Bldg. CB Floor El. 098 Room, Area 1124

Manufacturer, Model, Etc. (optional but recommended) Gould Model 3196-MT SZ 3X4-8G

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Pump is secured using 4 bolts with single nuts on concrete pad
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Bolts and nuts are painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No visible cracks

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-077**

Equipment ID No. HVK-P1A Equip. Class 5-Horizontal Pump

Equipment Description 1HVK\*P1A CONTROL BLDG CHILLED WATER PUMP

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures?  
One soft target no threatened Y  N  U  N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,  
and masonry block walls not likely to collapse onto the equipment?  
Light fixture will not fail, bulb can dislodge and fall but will not affect  
equipment Y  N  U  N/A
9. Do attached lines have adequate flexibility to avoid damage?  
Flexible lines Y  N  U  N/A
10. Based on the above seismic interaction evaluations, is equipment free  
of potentially adverse seismic interaction effects? Y  N  U

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-077**

Equipment ID No. HVK-P1A Equip. Class 5-Horizontal Pump

Equipment Description 1HVK\*P1A CONTROL BLDG CHILLED WATER PUMP

**Other Adverse Conditions**

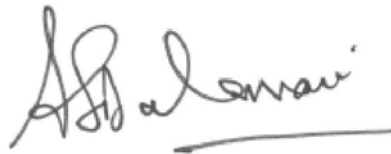
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U

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

None



Evaluated by: D. Bassi Date: 10/1/12



A. Dalawari 10/1/12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-077**

Equipment ID No. HVK-P1A Equip. Class 5-Horizontal Pump

Equipment Description 1HVK\*P1A CONTROL BLDG CHILLED WATER PUMP

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) - SWEL1-077**

Equipment ID No. HVK-P1A Equip. Class 5-Horizontal Pump

Equipment Description 1HVK\*P1A CONTROL BLDG CHILLED WATER PUMP


<p><b>Note:</b></p>

<p><b>Note:</b></p>

PAGE 1 OF 6

Status: Y N U

**Seismic Walkdown Checklist (SWC) - SWEL1-078**

Equipment ID No. HVK-TK1A Equip. Class<sup>1</sup> 21 – Tanks and Heat Exchangers

Equipment Description CNTRL BLDG CHILLED WTR SURGE TK 1A

Location: Bldg. CB Floor El. 098 Room, Area 1100

Manufacturer, Model, Etc. (optional but recommended) Reco Model D-76-629

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Tank installed on approx. 6" high pad, anchored with 8 bolts. Two nuts are not fully engaged (90-95% engaged)  
  
Ref. CR-RBS-2012-6242; LB-01
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Anchors are painted. No corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks observed. Pad is coated.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.



Status: Y N U

**Seismic Walkdown Checklist (SWC) - SWEL1-078**

Equipment ID No. HVK-TK1A Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description CNTRL BLDG CHILLED WTR SURGE TK 1A

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures?  
Tank not a soft target. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,  
and masonry block walls not likely to collapse onto the equipment?  
Light fixture near tank but tank is not a soft target. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?  
Yes, tubes attached on one side and pipes on the other 2 sides are  
flexible. Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free  
of potentially adverse seismic interaction effects? Y N U

PAGE 3 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-078**

Equipment ID No. HVK-TK1A Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description CNTRL BLDG CHILLED WTR SURGE TK 1A

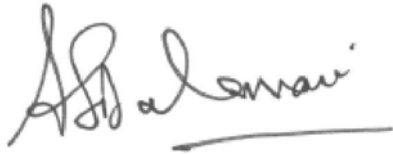
**Other Adverse Conditions**

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

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

None

Ref. CR-RBS-2012-6242; LB-01



Evaluated by: A. S. Dalawari Date: 10/1/2012



David Bassi 10/1/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-078**

Equipment ID No. HVK-TK1A Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description CNTRL BLDG CHILLED WTR SURGE TK 1A

**Photographs**



**Note:**



**Note:**


Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-078**

Equipment ID No. HVK-TK1A Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description CNTRL BLDG CHILLED WTR SURGE TK 1A


<b>Note:</b>


<b>Note:</b>

Status: Y  N  U

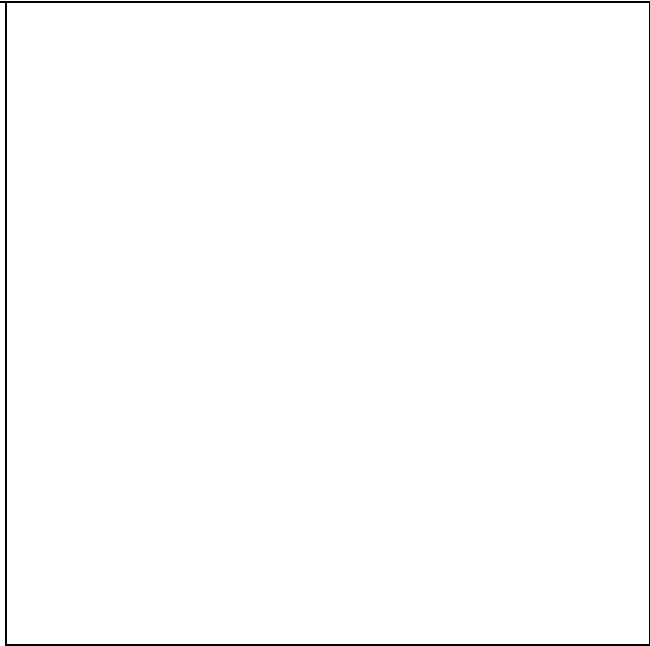
**Seismic Walkdown Checklist (SWC) SWEL1-078**

Equipment ID No. HVK-TK1A Equip. Class 21 – Tanks and Heat Exchangers

Equipment Description CNTRL BLDG CHILLED WTR SURGE TK 1A



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-079**

Equipment ID No. HVP-AOD11A Equip. Class<sup>1</sup> 7 – Pneumatic-Operated Valves

Equipment Description DSL GEN CONT RM A AIR SPLY (DC-3-131')

Location: Bldg. DG Floor El. 126 Room, Area 1305

Manufacturer, Model, Etc. (optional but recommended) Quality Air Design Model DD-5617-2

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Missing the top left bolt, not judged to be seismic issue (21 of 22 bolts present).  
Need a CR for missing bolt.  
Ref.CR-RBS-2012-6236
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No major corrosion evident
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Attached to equipment

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-079**

Equipment ID No. HVP-AOD11A Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description DSL GEN CONT RM A AIR SPLY (DC-3-131')

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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   
Bolt missing but adequate number remaining
- 

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-079**

Equipment ID No. HVP-AOD11A Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description DSL GEN CONT RM A AIR SPLY (DC-3-131')

---

**Other Adverse Conditions**

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

---

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

Ref. CR-RBS-2012-6236  
WR-328656 installed missing bolt

---



Evaluated by: D. Bassi Date: 10-2-12



J. Dunkelberg 10-2-12



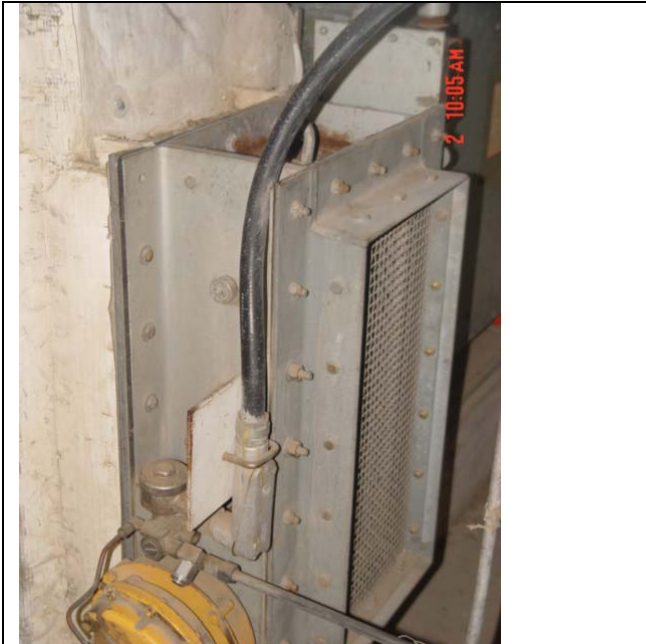
Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-079**

Equipment ID No. HVP-AOD11A Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description DSL GEN CONT RM A AIR SPLY (DC-3-131')

**Photographs**



**Note:** AOD anchorage (with missing bolt shown in top left corner)



**Note:** Other side of AOD

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-081**

Equipment ID No. HVP-FN2A Equip. Class<sup>1</sup> 9 - Fans

Equipment Description DIESEL ROOM A EMER VENTILATING EXHAUST FAN

Location: Bldg. DG Floor El. 098 Room, Area 1100

Manufacturer, Model, Etc. (optional but recommended) N/A

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Bolts were properly engaged and all present (from what was seen).  
Could not see 2 of 5 attachment bolts on south side. North side 5 bolts are good.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Bolts are painted. Could not see 2 of 5 attachment bolts on south side.  
North side 5 bolts are good.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
Fan is attached to structural steel.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-081**

Equipment ID No. HVP-FN2A Equip. Class 9 - Fans

Equipment Description DIESEL ROOM A EMER VENTILATING EXHAUST FAN

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
Dwg. Ref. 0215.350-073-017K  
10" spacing looked correct and bolts appeared to be 1". Could not see  
2 of 5 attachment bolts on south side. North side 5 bolts are good. Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) - SWEL1-081**

Equipment ID No. HVP-FN2A Equip. Class 9 - Fans

Equipment Description DIESEL ROOM A EMER VENTILATING EXHAUST FAN

**Other Adverse Conditions**

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

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

Fan is high in the overhead, all observations were from the floor, could not measure bolt size/spacing. Could not see 2 of 5 attachment bolts on south side. North side 5 bolts are good. No evidence or basis to conclude that the 2 bolts that could not be observed are not in place. Based on discussion with EOI (J Drake), it was determined that this is an acceptable inspection.



Evaluated by: J. Dunkelberg Date: 10-2-12



D. Bassi 10-2-12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-081**

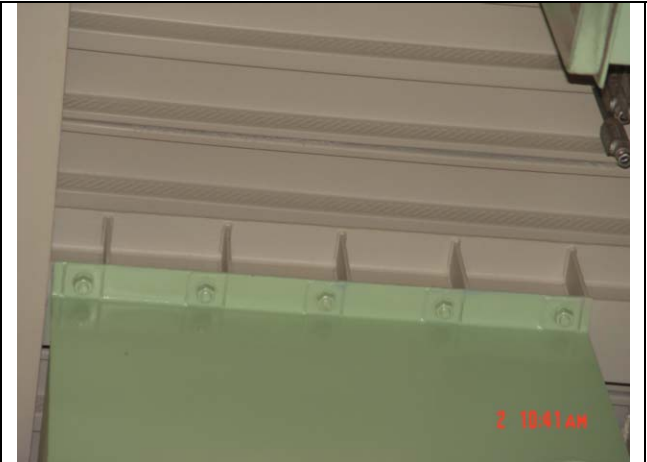
Equipment ID No. HVP-FN2A Equip. Class 9 - Fans

Equipment Description DIESEL ROOM A EMER VENTILATING EXHAUST FAN

**Photographs**



**Note:**



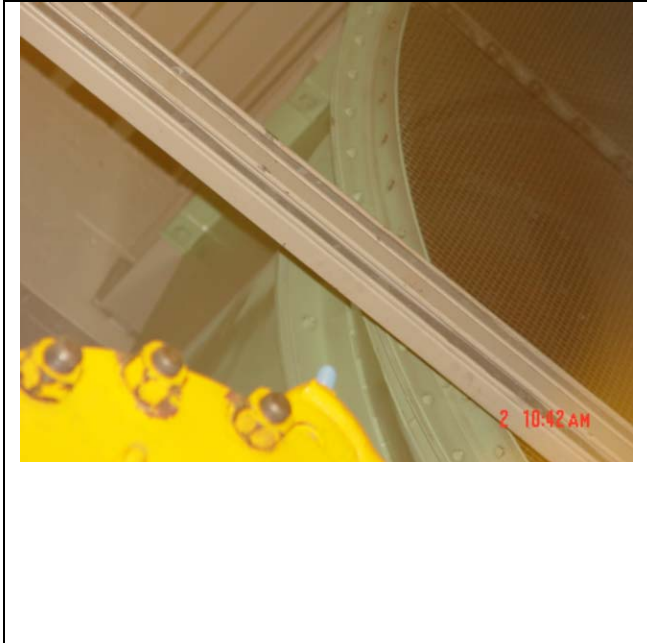
**Note:** Close-up of the 5 north side anchor bolts.

Status: Y  N  U

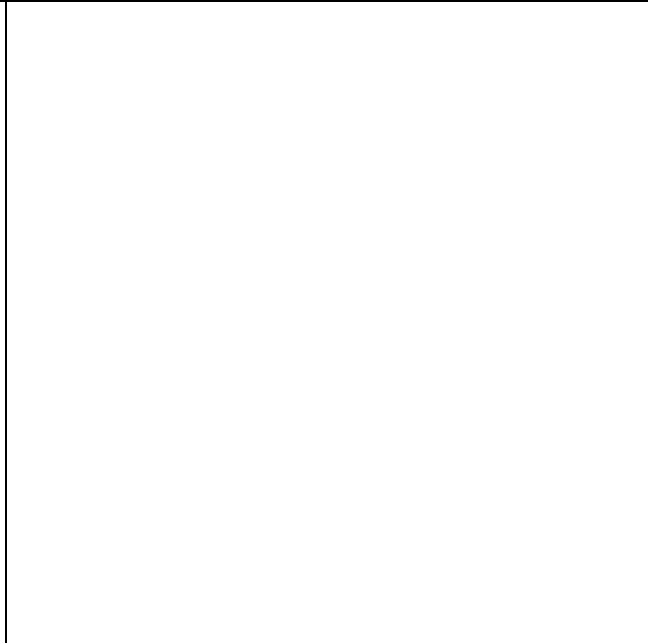
**Seismic Walkdown Checklist (SWC)** SWEL1-081

Equipment ID No. HVP-FN2A Equip. Class 9 - Fans

Equipment Description DIESEL ROOM A EMER VENTILATING EXHAUST FAN



**Note:** Visible bolts on the south side of the fan.



**Note:**

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-082**

Equipment ID No. HVP-FN6A Equip. Class<sup>1</sup> 9 - Fans

Equipment Description DSL GEN CONT RM A VENT SUPPLY FAN

Location: Bldg. DG Floor El. 126 Room, Area 1305

Manufacturer, Model, Etc. (optional but recommended) Buffalo Forge Model 30/BL PC

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
All bolts were present and no problems
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
No corrosion observed
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No cracking was observed near the anchors.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-082**

Equipment ID No. HVP-FN6A Equip. Class 9 - Fans

Equipment Description DSL GEN CONT RM A VENT SUPPLY FAN

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
EC-029G  
Verified in accordance with above dwg Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y N U

**Interaction Effects**

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



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-082**

Equipment ID No. HVP-FN6A Equip. Class 9 - Fans

Equipment Description DSL GEN CONT RM A VENT SUPPLY FAN

**Other Adverse Conditions**

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

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

None



Evaluated by: J. Dunkelberg Date: 10-2-12



D. Bassi 10-2-12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-082**

Equipment ID No. HVP-FN6A Equip. Class 9 - Fans

Equipment Description DSL GEN CONT RM A VENT SUPPLY FAN

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-082

Equipment ID No. HVP-FN6A Equip. Class 9 - Fans

Equipment Description DSL GEN CONT RM A VENT SUPPLY FAN



**Note:** Non-standard attachment



**Note:** Non-standard attachment

PAGE 1 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-083**

Equipment ID No. HVP-PNL12A Equip. Class<sup>1</sup> 3 – Medium Voltage, Metal-Clad Switchgear

Equipment Description DIESEL GENERATOR VENTILATION PNL 12A

Location: Bldg. DG Floor El. 098 Room, Area 1106

Manufacturer, Model, Etc. (optional but recommended) Model HVP-PNL12A

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Panel is anchored to the wall by four bolts to embedded unistrut channel.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
No visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No visible cracks in the concrete near embedment.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-083**

Equipment ID No. HVP-PNL12A Equip. Class 3 – Medium Voltage, Metal-Clad Switchgear

Equipment Description DIESEL GENERATOR VENTILATION PNL 12A

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-083

Equipment ID No. HVP-PNL12A Equip. Class 3 – Medium Voltage, Metal-Clad Switchgear

Equipment Description DIESEL GENERATOR VENTILATION PNL 12A

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**Other Adverse Conditions**

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

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

None

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Evaluated by: Matt Keeney Date: 10-4-2012



John Dunkelberg 10-4-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-083**

Equipment ID No. HVP-PNL12A Equip. Class 3 – Medium Voltage, Metal-Clad Switchgear

Equipment Description DIESEL GENERATOR VENTILATION PNL 12A

**Photographs**



**Note:**

**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-084**

Equipment ID No. HVR-UC1A Equip. Class<sup>1</sup> 10 – Air Handlers

Equipment Description CONTMT UNIT COOLER

Location: Bldg. RB Floor El. 162 Room, Area 7408

Manufacturer, Model, Etc. (optional but recommended) Buffalo Forge Model 390 PC/48D9-1750-22

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
No damage noticed on anchorage.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Light rusting noted on anchorage bolts.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Component is mounted on steel.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-084**

Equipment ID No. HVR-UC1A Equip. Class 10 – Air Handlers

Equipment Description CONTMT UNIT COOLER

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
Verified IAW drawings: 0215.252-057-010, 0215.252-057-009,  
ES-053P Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-084**

Equipment ID No. HVR-UC1A Equip. Class 10 – Air Handlers

Equipment Description CONTMT UNIT COOLER

**Other Adverse Conditions**

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

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

None



Evaluated by: Matt Keeney Date: 10-3-2012



John Dunkelberg 10-3-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-084**

Equipment ID No. HVR-UC1A Equip. Class 10 – Air Handlers

Equipment Description CONTMT UNIT COOLER

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

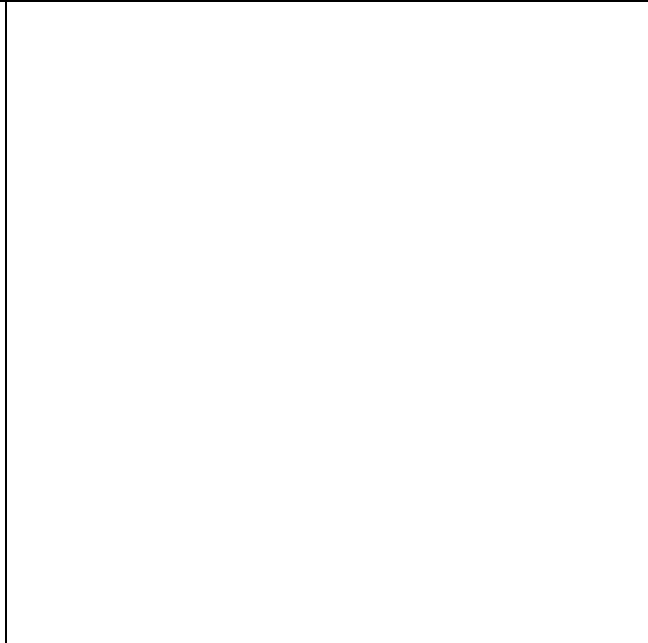
**Seismic Walkdown Checklist (SWC)** SWEL1-084

Equipment ID No. HVR-UC1A Equip. Class 10 – Air Handlers

Equipment Description CONTMT UNIT COOLER



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) - SWEL1-085**

Equipment ID No. HVR-UC6 Equip. Class<sup>1</sup> 10 – Air Handlers

Equipment Description AUX BLDG UNIT COOLER

Location: Bldg. AB Floor El. 114 Room, Area 6205

Manufacturer, Model, Etc. (optional but recommended) Westinghouse Elec Model 326TCZ

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
All hardware good condition, all in place
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No visible cracks

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-085**

Equipment ID No. HVR-UC6 Equip. Class 10 – Air Handlers

Equipment Description AUX BLDG UNIT COOLER

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

Y  N  U  N/A

Verified IAW the following Drawings:

EC-066G, EC-067C, 0215.252-057-038

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

Y  N  U

---

**Interaction Effects**

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

Y  N  U  N/A

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

Y  N  U  N/A

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

Y  N  U  N/A

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

Y  N  U

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-085**

Equipment ID No. HVR-UC6 Equip. Class 10 – Air Handlers


Equipment Description AUX BLDG UNIT COOLER


**Other Adverse Conditions**

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

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

None

Evaluated by: J. Dunkelberg  Date: 10/8/12

D. Bassi  10/8/12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-085**

Equipment ID No. HVR-UC6 Equip. Class 10 – Air Handlers

Equipment Description AUX BLDG UNIT COOLER

**Photographs**



**Note:**



**Note:**



PAGE 1 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-086**

Equipment ID No. LSV-C3A Equip. Class<sup>1</sup> 12 – Air Compressors

Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR

Location: Bldg. AB Floor El. 141 Room, Area 6301

Manufacturer, Model, Etc. (optional but recommended) Nash Model AD 74N

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
All anchors are present and in good condition
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Anchors are clean steel or painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
The grout bed is cracked on one anchor.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-086**

Equipment ID No. LSV-C3A Equip. Class 12 – Air Compressors

Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR

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

Y  N  U  N/A

EC-066G

Verified in accordance with above dwg

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

Y  N  U

Grout bed is intact regardless of crack in grout

---

**Interaction Effects**

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

Y  N  U  N/A

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

Y  N  U  N/A

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

Y  N  U  N/A

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

Y  N  U

PAGE 3 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-086**

Equipment ID No. LSV-C3A Equip. Class 12 – Air Compressors

Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR

**Other Adverse Conditions**

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

See comments

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

Grout bed cracked but is still in good condition. Judged to not be a seismic issue.  
CR-RBS-2012-6400 initiated to address.



Evaluated by: M. Keeney Date: 10/8/12



J. Halsey 10/8/12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-086**

Equipment ID No. LSV-C3A Equip. Class 12 – Air Compressors

Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-086**

Equipment ID No. LSV-C3A Equip. Class 12 – Air Compressors

Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-086**

Equipment ID No. LSV-C3A Equip. Class 12 – Air Compressors

Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR



**Note:**

**Note:**

PAGE 1 OF 6

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-087**

Equipment ID No. LSV-C3B Equip. Class<sup>1</sup> 12 – Air Compressors

Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR COMPRESSOR

Location: Bldg. AB Floor El. 141 Room, Area 6301

Manufacturer, Model, Etc. (optional but recommended) Nash Model AD 74N

**Instructions for Completing Checklist**

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

**Anchorage**

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

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-087**

Equipment ID No. LSV-C3B Equip. Class 12 – Air Compressors

Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR COMPRESSOR

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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



PAGE 3 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-087**

Equipment ID No. LSV-C3B Equip. Class 12 – Air Compressors

Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR COMPRESSOR

**Other Adverse Conditions**

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

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

None

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Evaluated by: Matt Keeney Date: 10/8/2012



Brandon Nissing 10/8/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-087**

Equipment ID No. LSV-C3B Equip. Class 12 – Air Compressors

Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR COMPRESSOR

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) - SWEL1-087**

Equipment ID No. LSV-C3B Equip. Class 12 – Air Compressors

Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR COMPRESSOR



**Note:**



**Note:**

Status: Y  N  U

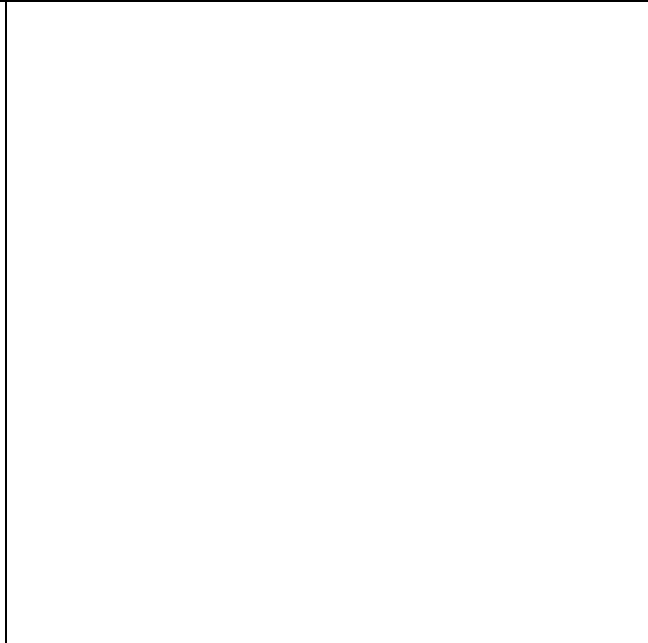
**Seismic Walkdown Checklist (SWC) - SWEL1-087**

Equipment ID No. LSV-C3B Equip. Class 12 – Air Compressors

Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR COMPRESSOR



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-088**

Equipment ID No. RCP-TCA03 Equip. Class<sup>1</sup> 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT OUTBRD PENTR NMS13 & LVI13A TERMINATION CABINET

Location: Bldg. AB Floor El. 114 Room, Area 6207

Manufacturer, Model, Etc. (optional but recommended) General Electric Model EB-25

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Welded connection to sills on two sides
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No cracks visible in concrete

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-088**

Equipment ID No. RCP-TCA03 Equip. Class 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT OUTBRD PENTR NMS13 & LVI13A TERMINATION CABINET

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) - SWEL1-088**

Equipment ID No. RCP-TCA03 Equip. Class 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT OUTBRD PENTR NMS13 & LVI13A TERMINATION CABINET

**Other Adverse Conditions**

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

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

None

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Evaluated by: D. Bassi Date: 10/9/12



J. Dunkelberg 10/9/12

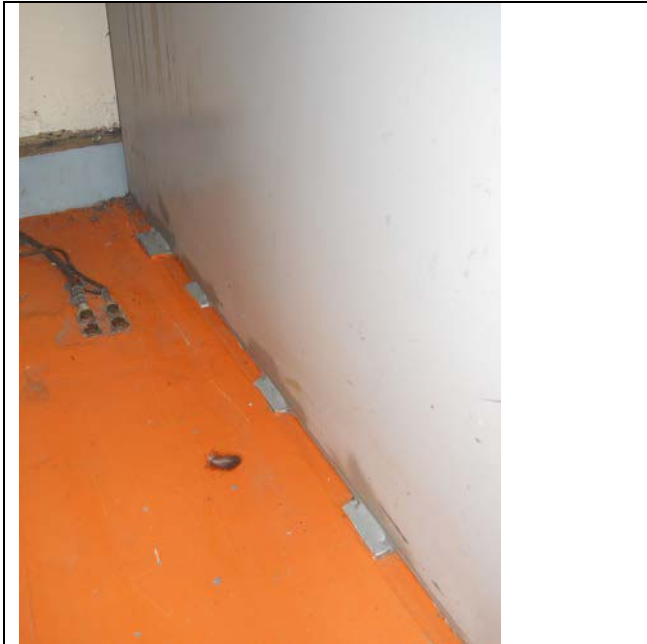
Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-088**

Equipment ID No. RCP-TCA03 Equip. Class 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT OUTBRD PENTR NMS13 & LVI13A TERMINATION CABINET

**Photographs**



**Note:**



**Note:**

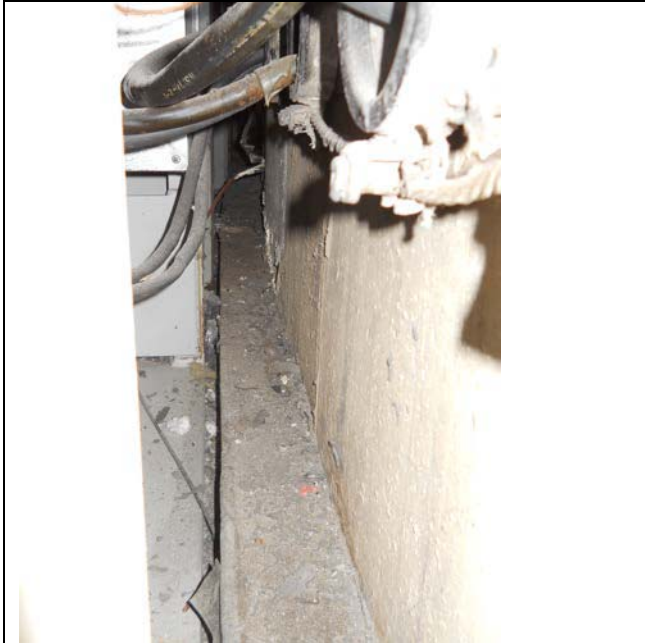


Status: Y  N  U

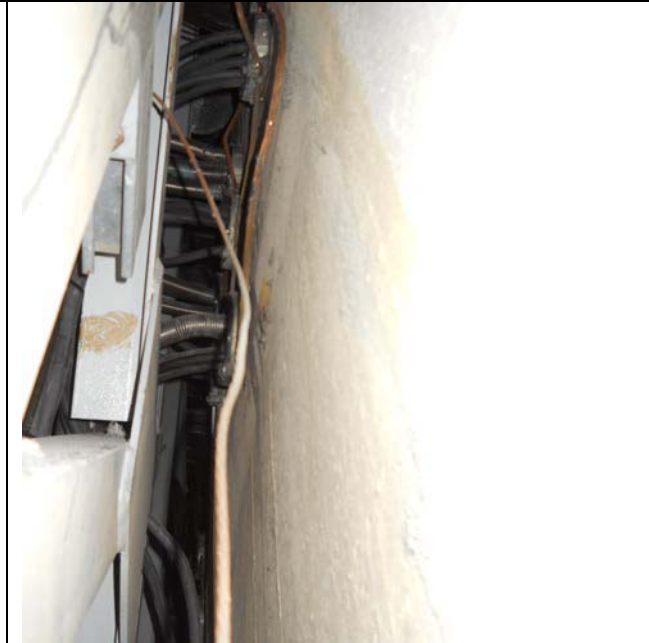
**Seismic Walkdown Checklist (SWC)** SWEL1-088

Equipment ID No. RCP-TCA03 Equip. Class 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT OUTBRD PENTR NMS13 & LVI13A TERMINATION CABINET



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-089**

Equipment ID No. RCP-TCF04 Equip. Class<sup>1</sup> 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT OUTBRD PENTR LVC21 & LVI20A TERMINATION CABINET

Location: Bldg. FB Floor El. 113 Room, Area 5205

Manufacturer, Model, Etc. (optional but recommended) General Electric Model EB-25

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Welded to floor sills, 2 sides, continuous weldment.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No cracks observed

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-089**

Equipment ID No. RCP-TCF04 Equip. Class 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT OUTBRD PENTR LVC21 & LVI20A TERMINATION CABINET

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
EE-038F; 248.000  
Verified in accordance with above dwg Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-089**

Equipment ID No. RCP-TCF04 Equip. Class 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT OUTBRD PENTR LVC21 & LVI20A TERMINATION CABINET

**Other Adverse Conditions**

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

See comments

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

Rag observed at back right side of cabinet, against containment.  
Recommend removal, housekeeping item, not seismic issue.

CR-RBS-2012-6693 initiated.



Evaluated by: John Dunkelberg

Date: 10/9/2012



David Bassi

10/9/2012

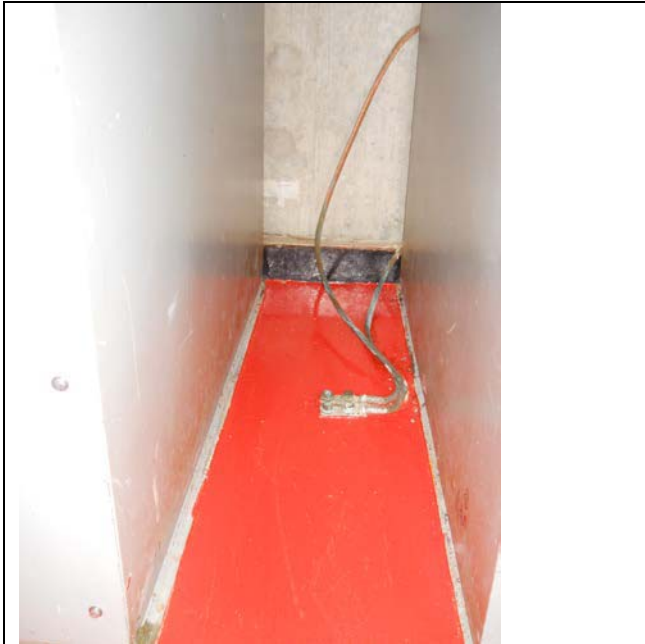
Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-089

Equipment ID No. RCP-TCF04 Equip. Class 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT OUTBRD PENTR LVC21 & LVI20A TERMINATION CABINET

**Photographs**



**Note:**



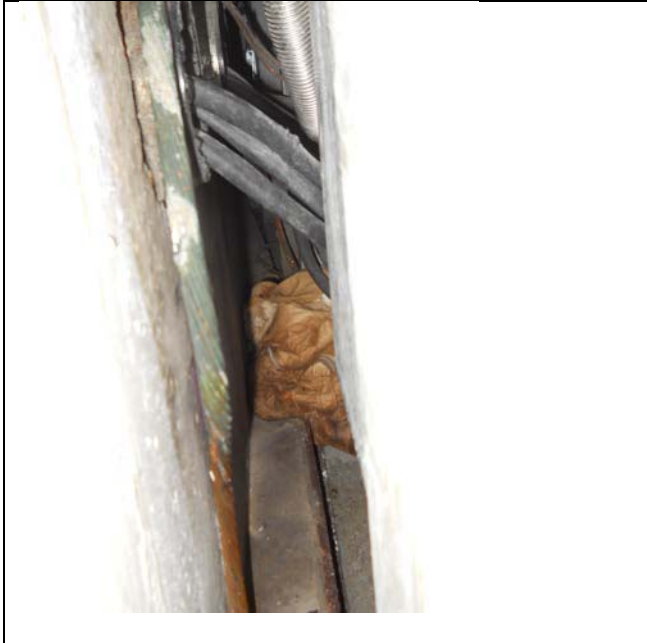
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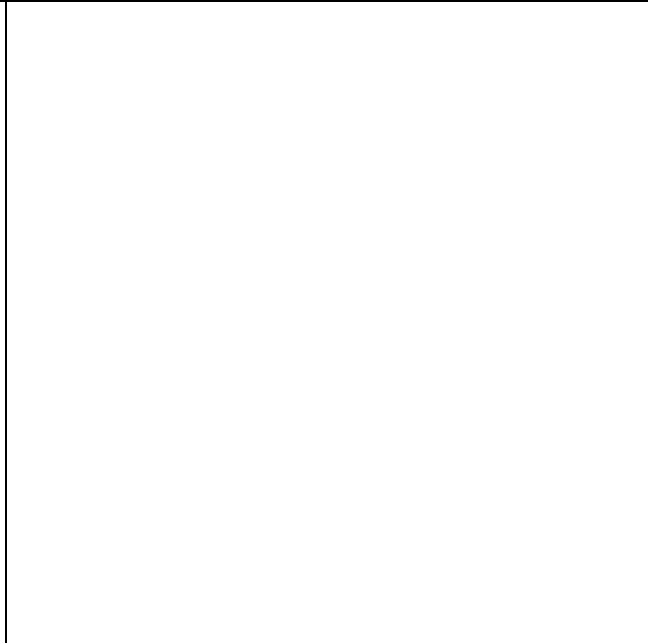
**Seismic Walkdown Checklist (SWC)** SWEL1-089

Equipment ID No. RCP-TCF04 Equip. Class 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT OUTBRD PENTR LVC21 & LVI20A TERMINATION CABINET



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-090**

Equipment ID No. RCP-TCR01F Equip. Class<sup>1</sup> 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT INBRD PENTR NMS19 & LVI19A TERMINATION CABINET

Location: Bldg. RB Floor El. 114 Room, Area 7200

Manufacturer, Model, Etc. (optional but recommended) Raychem Model RCP-TCR01F

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Bolted steel cabinet welded to steel plate at base to floor.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Painted surfaces with some mild surface oxidation.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
Mounted to steel floor plate.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-090**

Equipment ID No. RCP-TCR01F Equip. Class 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT INBRD PENTR NMS19 & LVI19A TERMINATION CABINET

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

Y  N  U  N/A

EE-035A

Verified in accordance with above dwg

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

Y  N  U

---

**Interaction Effects**

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

Y  N  U  N/A

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

Y  N  U  N/A

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

Y  N  U  N/A

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

Y  N  U



PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-090

Equipment ID No. RCP-TCR01F Equip. Class 14

Equipment Description RX CNTMNT ELECT INBRD PENTR NMS19 & LVI19A TERMINATION CABINET

**Other Adverse Conditions**

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

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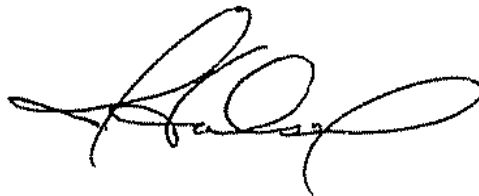
**Comments** (Additional pages may be added as necessary)

None

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Evaluated by: Matt Keeney Date: 10-9-2012



Jason Halsey 10-9-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-090**

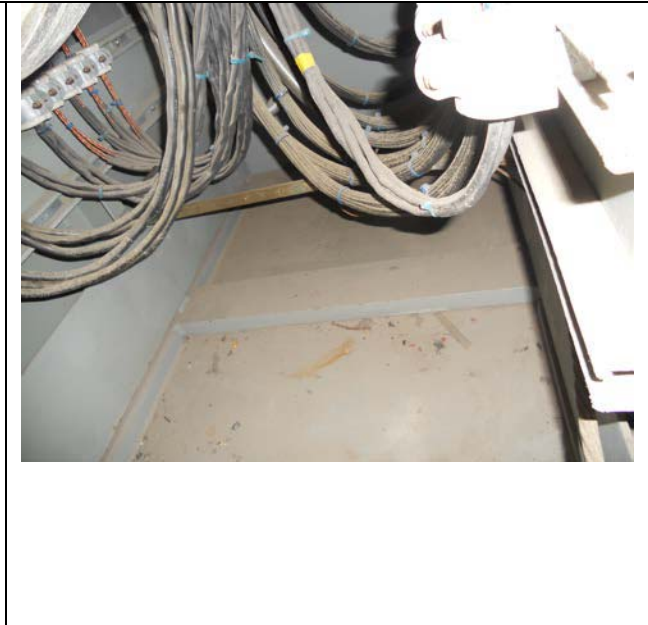
Equipment ID No. RCP-TCR01F Equip. Class 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT INBRD PENTR NMS19 & LVI19A TERMINATION CABINET

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-090**

Equipment ID No. RCP-TCR01F Equip. Class 14 – Distribution Panels

Equipment Description RX CNTMNT ELECT INBRD PENTR NMS19 & LVI19A TERMINATION CABINET



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-091**

Equipment ID No. C11-AOV126 Equip. Class<sup>1</sup> 7 – Pneumatic-Operated Valves

Equipment Description SCRAM INLET VALVE

Location: Bldg. RB Floor El. 114 Room, Area 7200, 7203

Manufacturer, Model, Etc. (optional but recommended) General Electric Model 767E652P001

**Instructions for Completing Checklist**

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

**Anchorage**

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

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-091**

Equipment ID No. C11-AOV126 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM INLET VALVE

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-091

Equipment ID No. C11-AOV126 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM INLET VALVE

---

**Other Adverse Conditions**

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

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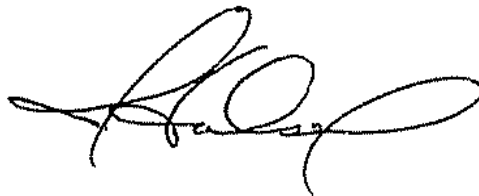
**Comments** (Additional pages may be added as necessary)

None

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Evaluated by: Matt Keeney Date: 10/9/2012



Jason Halsey 10/9/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-091**

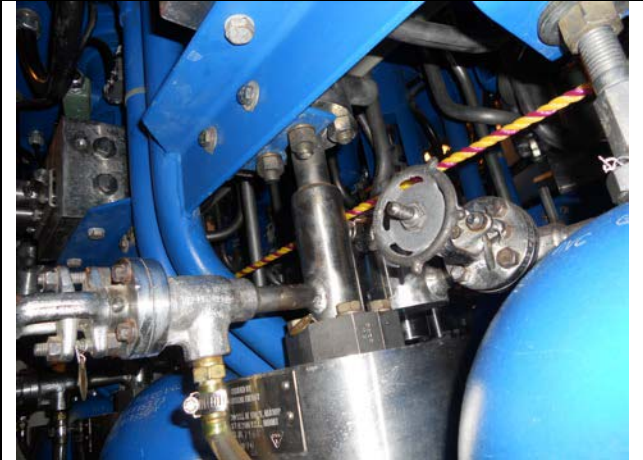
Equipment ID No. C11-AOV126 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM INLET VALVE

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-091**

Equipment ID No. C11-AOV126 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM INLET VALVE


<p><b>Note:</b></p>

<p><b>Note:</b></p>



PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC)** SWEL1-092

Equipment ID No. C11-AOV126 Equip. Class<sup>1</sup> 7 – Pneumatic-Operated Valves

Equipment Description SCRAM INLET VALVE

Location: Bldg. RB Floor El. 114 Room, Area 7200, 7203

Manufacturer, Model, Etc. (optional but recommended) General Electric Model 767E652P001

**Instructions for Completing Checklist**

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

**Anchorage**

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

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-092**

Equipment ID No. C11-AOV126 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM INLET VALVE

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-092**

Equipment ID No. C11-AOV126 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM INLET VALVE

---

**Other Adverse Conditions**

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

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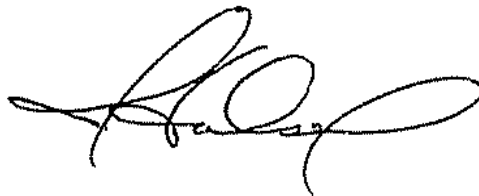
**Comments** (Additional pages may be added as necessary)

None

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Evaluated by: Matt Keeney Date: 10/9/2012



Jason Halsey 10/9/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-092**

Equipment ID No. C11-AOV126 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM INLET VALVE

**Photographs**



**Note:**


**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-092

Equipment ID No. C11-AOV126 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM INLET VALVE


<p><b>Note:</b></p>

<p><b>Note:</b></p>

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC)** SWEL1-093

Equipment ID No. C11-AOV127 Equip. Class<sup>1</sup> 7 – Pneumatic-Operated Valves

Equipment Description SCRAM DISCHARGE VALVE

Location: Bldg. RB Floor El. 114 Room, Area 7200

Manufacturer, Model, Etc. (optional but recommended) General Electric Model 767E653P001

**Instructions for Completing Checklist**

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

**Anchorage**

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

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-093**

Equipment ID No. C11-AOV127 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM DISCHARGE VALVE

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-093

Equipment ID No. C11-AOV127 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM DISCHARGE VALVE

---

**Other Adverse Conditions**

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

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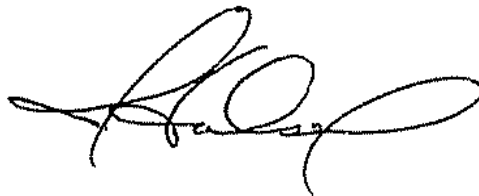
**Comments** (Additional pages may be added as necessary)

None

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Evaluated by: Matt Keeney Date: 10/9/2012



Jason Halsey 10/9/2012



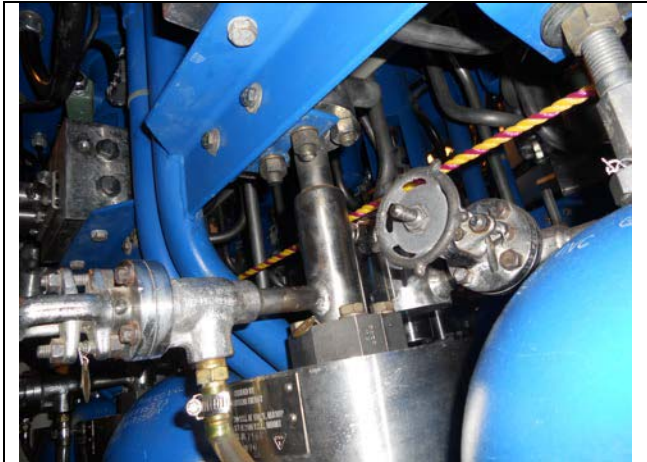
Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-093**

Equipment ID No. C11-AOV127 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM DISCHARGE VALVE

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-094**

Equipment ID No. C11-AOV127 Equip. Class<sup>1</sup> 7 – Pneumatic-Operated Valves

Equipment Description SCRAM DISCHARGE VALVE

Location: Bldg. RB Floor El. 114 Room, Area 7200

Manufacturer, Model, Etc. (optional but recommended) General Electric Model 767E653P001

**Instructions for Completing Checklist**

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

**Anchorage**

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

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-094**

Equipment ID No. C11-AOV127 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM DISCHARGE VALVE

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-094

Equipment ID No. C11-AOV127 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM DISCHARGE VALVE

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**Other Adverse Conditions**

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

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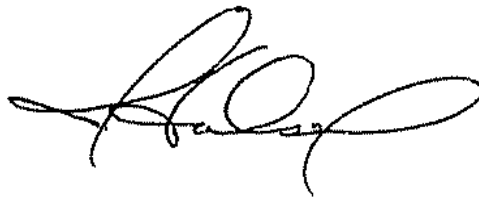
**Comments** (Additional pages may be added as necessary)

None

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Evaluated by: Matt Keeney Date: 10/9/2012



Jason Halsey 10/9/2012

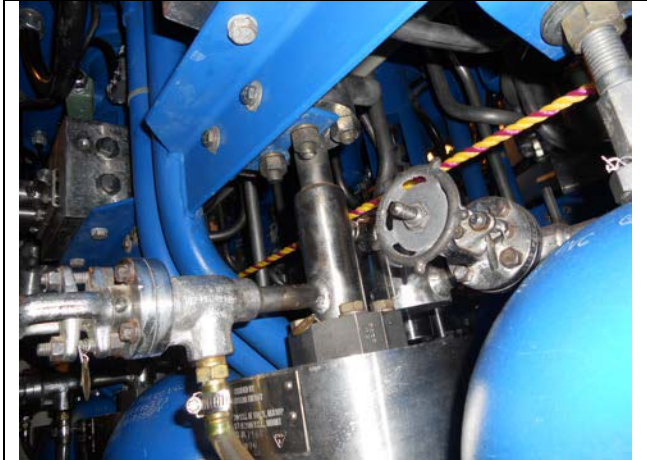
Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-094

Equipment ID No. C11-AOV127 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM DISCHARGE VALVE

**Photographs**



**Note:**

**Note:**

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-095**

Equipment ID No. C11-AOV139 Equip. Class<sup>1</sup> 7 – Pneumatic-Operated Valves

Equipment Description SCRAM PILOT VALVES

Location: Bldg. RB Floor El. 114 Room, Area 7200

Manufacturer, Model, Etc. (optional but recommended) N/A

**Instructions for Completing Checklist**

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

**Anchorage**

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

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-095**

Equipment ID No. C11-AOV139 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM PILOT VALVES

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-095**

Equipment ID No. C11-AOV139 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM PILOT VALVES

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**Other Adverse Conditions**

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

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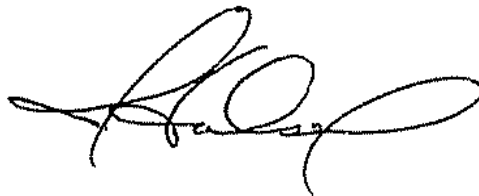
**Comments** (Additional pages may be added as necessary)

None

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Evaluated by: Matt Keeney Date: 10/9/2012



Jason Halsey 10/9/2012



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-095**

Equipment ID No. C11-AOV139 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM PILOT VALVES

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-096**

Equipment ID No. C11-AOV139 Equip. Class<sup>1</sup> 7 - - Pneumatic-Operated Valves

Equipment Description SCRAM PILOT VALVES

Location: Bldg. RB Floor El. 114 Room, Area 7200

Manufacturer, Model, Etc. (optional but recommended) N/A

**Instructions for Completing Checklist**

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

**Anchorage**

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

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-096**

Equipment ID No. C11-AOV139 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM PILOT VALVES

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-096

Equipment ID No. C11-AOV139 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM PILOT VALVES

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**Other Adverse Conditions**

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

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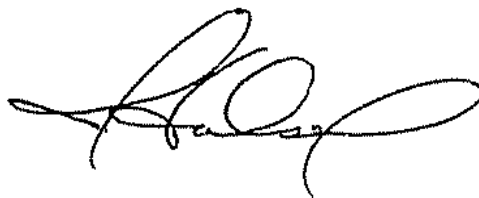
**Comments** (Additional pages may be added as necessary)

None

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Evaluated by: Matt Keeney Date: 10/9/2012



Jason Halsey 10/9/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-096

Equipment ID No. C11-AOV139 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description SCRAM PILOT VALVES

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-099**

Equipment ID No. SWP-AOV599 Equip. Class<sup>1</sup> 7 – Pneumatic-Operated Valves

Equipment Description STANDBY CLG TOWR 1 STAT BLACKOUT DIV 1 STNDBY SRVCE WTR RETURN VL

Location: Bldg. GT Floor El. 067 Room, Area 20G1

Manufacturer, Model, Etc. (optional but recommended) Jamesbury Model 8226-18-A

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
In-line mounted valve, no bolts missing, bent or loose.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted, some light rust.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line mounted valve.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-099**

Equipment ID No. SWP-AOV599 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description STANDBY CLG TOWR 1 STAT BLACKOUT DIV 1 STNDBY SRVCE WTR RETURN VL

- 
5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

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**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-099**

Equipment ID No. SWP-AOV599 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description STANDBY CLG TOWR 1 STAT BLACKOUT DIV 1 STNDBY SRVCE WTR RETURN VL

**Other Adverse Conditions**

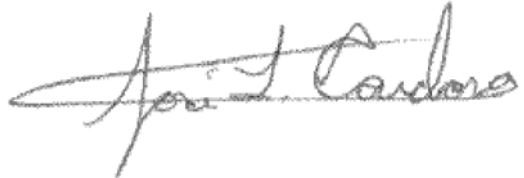
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U

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

None



Evaluated by: John Dunkelberg Date: 10-5-2012



Jose Cardona 10-5-2012



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-099**

Equipment ID No. SWP-AOV599 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description STANDBY CLG TOWR 1 STAT BLACKOUT DIV 1 STNDBY SRVCE WTR RETURN VL

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-099**

Equipment ID No. SWP-AOV599 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description STANDBY CLG TOWR 1 STAT BLACKOUT DIV 1 STNDBY SRVCE WTR RETURN VL



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-104**

Equipment ID No. SWP-MOV27C Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTRL BLDG CHILLD WTR CHILLR CONDENSER C SVCE WTR SPLY LNE ISOL VL

Location: Bldg. CB Floor El. 098 Room, Area 1110

Manufacturer, Model, Etc. (optional but recommended) Jamesbury Model 815L-S9273301-22HB-SL-C

**Instructions for Completing Checklist**

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

**Anchorage**

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

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-104**

Equipment ID No. SWP-MOV27C Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTRL BLDG CHILLD WTR CHILLR CONDENSER C SVCE WTR SPLY LNE ISOL VL

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-104**

Equipment ID No. SWP-MOV27C Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTRL BLDG CHILLD WTR CHILLR CONDENSER C SVCE WTR SPLY LNE ISOL VL

**Other Adverse Conditions**

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

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

None

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Evaluated by: David Bassi Date: 10/1/2012



Matt Keeney 10/1/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-104**

Equipment ID No. SWP-MOV27C Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTRL BLDG CHILLD WTR CHILLR CONDENSER C SVCE WTR SPLY LNE ISOL VL

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-104**

Equipment ID No. SWP-MOV27C Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTRL BLDG CHILLD WTR CHILLR CONDENSR C SVCE WTR SPLY LNE ISOL VL



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-105**

Equipment ID No. SWP-MOV502A Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTNMNT UNIT CLR A SPLY HEADER INBRD CNTNMNT ISOL VLV

Location: Bldg. RB Floor El. 162 Room, Area 7408

Manufacturer, Model, Etc. (optional but recommended) Velan Valve Model B14-0054B-02TS

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Component is an in-line mounted valve. Valve body to bonnet fasteners were covered by insulation.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Anchorage was covered by insulation.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line valve not mounted to concrete.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.



PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-105**

Equipment ID No. SWP-MOV502A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTNMNT UNIT CLR A SPLY HEADER INBRD CNTNMNT ISOL VLV

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-105**

Equipment ID No. SWP-MOV502A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTNMNT UNIT CLR A SPLY HEADER INBRD CNTNMNT ISOL VLV

**Other Adverse Conditions**

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

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

Valve body was covered with insulation.



Evaluated by: Matt Keeney Date: 10-3-2012



John Dunkelberg 10-3-2012

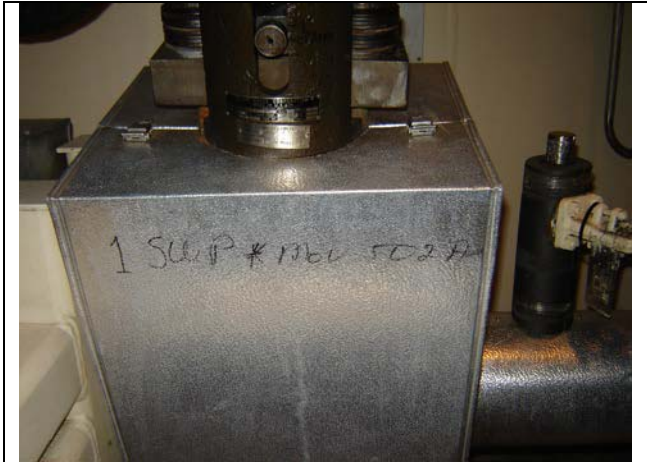
Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-105**

Equipment ID No. SWP-MOV502A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTNMNT UNIT CLR A SPLY HEADER INBRD CNTNMNT ISOL VLV

**Photographs**



**Note:** Valve body covered by insulation



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-105**

Equipment ID No. SWP-MOV502A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CNTNMNT UNIT CLR A SPLY HEADER INBRD CNTNMNT ISOL VLV



**Note:** Valve bonnet and operator



**Note:** Structural steel support

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-106**

Equipment ID No. SWP-MOV40A Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STANDBY SVCE WTR PMP A DISCH ISOL VLV

Location: Bldg. SCT Floor El. 118 Room, Area 0104

Manufacturer, Model, Etc. (optional but recommended) Jamesbury Model ND-44475-5

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Component is an in-line valve with bolted flanges attaching it to the piping.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Bolting was painted with mild surface corrosion noted.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
Valve is mounted in-line with the piping system.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-106**

Equipment ID No. SWP-MOV40A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STANDBY SVCE WTR PMP A DISCH ISOL VLV

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-106**

Equipment ID No. SWP-MOV40A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STANDBY SVCE WTR PMP A DISCH ISOL VLV

**Other Adverse Conditions**

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

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

None



Evaluated by: John Dunkelberg Date: 10-2-2012



Jason Halsey 10-2-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-106**

Equipment ID No. SWP-MOV40A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STANDBY SVCE WTR PMP A DISCH ISOL VLV

**Photographs**



**Note:** In-line mounted valve attached to the piping system with bolted flanges



**Note:**



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-106**

Equipment ID No. SWP-MOV40A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STANDBY SVCE WTR PMP A DISCH ISOL VLV



**Note:**

**Note:**

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-107**

Equipment ID No. SWP-MOV55A Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STBY CLG TOWER 1 INLET

Location: Bldg. GT Floor El. 067 Room, Area 0000

Manufacturer, Model, Etc. (optional but recommended) Jamesbury Model ND-44475-4

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware?  
36" In-line mounted butterfly valve, no missing or damaged hardware. Y N U N/A
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation?  
Painted surfaces. Y N U N/A
  
4. Is the anchorage free of visible cracks in the concrete near the anchors?  
In-line mounted valve. Y N U N/A

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-107**

Equipment ID No. SWP-MOV55A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STBY CLG TOWER 1 INLET

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-107**

Equipment ID No. SWP-MOV55A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STBY CLG TOWER 1 INLET

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**Other Adverse Conditions**

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

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

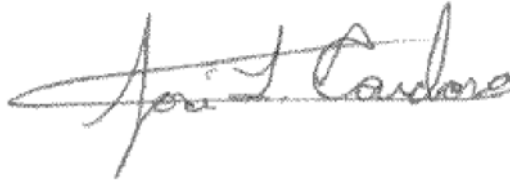
None

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Evaluated by: John Dunkelberg

Date: 10-5-2012



Jose Cardona

10-5-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-107**

Equipment ID No. SWP-MOV55A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STBY CLG TOWER 1 INLET

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-108**

Equipment ID No. SWP-P2A Equip. Class<sup>1</sup> 6 – Vertical Pumps

Equipment Description STBY SVC WP

Location: Bldg. SCT Floor El. 118 Room, Area 0100

Manufacturer, Model, Etc. (optional but recommended) Hayward-Tyler Pump Model 18X23VSN

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Four cast in-place anchor bolts are 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   
Anchors are painted with only mild surface oxidation noted.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No visible cracks in grout pad near anchor bolts.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-108**

Equipment ID No. SWP-P2A Equip. Class 6 – Vertical Pumps

Equipment Description STBY SVC WP

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
Four anchor bolts verified IAW Dwg. 0232-920-257-013H Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC)** SWEL1-108

Equipment ID No. SWP-P2A Equip. Class 6 – Vertical Pumps

Equipment Description STBY SVC WP

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**Other Adverse Conditions**

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

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

None

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Evaluated by: John Dunkelberg Date: 10-2-2012



Jason Halsey 10-2-2012



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-108**

Equipment ID No. SWP-P2A Equip. Class 6 – Vertical Pumps

Equipment Description STBY SVC WP

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-108**

Equipment ID No. SWP-P2A Equip. Class 6 – Vertical Pumps

Equipment Description STBY SVC WP



**Note:**

**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC)** SWEL1-109

Equipment ID No. SWP-P3C Equip. Class<sup>1</sup> 5 – Horizontal Pumps

Equipment Description CONTROL BLDG CHILLER RECIRC PUMP P3C

Location: Bldg. CB Floor El. 098 Room, Area 1110

Manufacturer, Model, Etc. (optional but recommended) Gould Pumps Model 3196-MT SZ 4X6-13

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Pump anchored to concrete pad using 4 bolts with double nuts.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Anchor bolts painted.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks in concrete.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-109**

Equipment ID No. SWP-P3C Equip. Class 5 – Horizontal Pumps

Equipment Description CONTROL BLDG CHILLER RECIRC PUMP P3C

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures?  
One soft target (fluid bulb) that is not in path of any adverse collision. Y  N  U  N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,  
and masonry block walls not likely to collapse onto the equipment?  
Lighting properly secured. Y  N  U  N/A
9. Do attached lines have adequate flexibility to avoid damage?  
Flexible conduits (electrical) are attached. Y  N  U  N/A
10. Based on the above seismic interaction evaluations, is equipment free  
of potentially adverse seismic interaction effects? Y  N  U

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-109**

Equipment ID No. SWP-P3C Equip. Class 5 – Horizontal Pumps

Equipment Description CONTROL BLDG CHILLER RECIRC PUMP P3C

---

**Other Adverse Conditions**

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

---

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

None

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Evaluated by: David Bassi Date: 10/1/2012



Matt Keeney 10/1/2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-109**

Equipment ID No. SWP-P3C Equip. Class 5 – Horizontal Pumps

Equipment Description CONTROL BLDG CHILLER RECIRC PUMP P3C

**Photographs**



**Note:**




**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-109**

Equipment ID No. SWP-P3C Equip. Class 5 – Horizontal Pumps

Equipment Description CONTROL BLDG CHILLER RECIRC PUMP P3C



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-111**

Equipment ID No. SWP-SOV602A Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STNDBY CLG TWR STATION BLACKOUT RETURN VLV AIR SPLY LINE CNTRL  
SO

Location: Bldg. CW Floor El. 108 Room, Area 0000

Manufacturer, Model, Etc. (optional but recommended) Tyco Instrument Model EF8327G41

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
No missing, broken, bent or loose hardware.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted, stainless or galvanized surfaces.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracking visible.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.



PAGE 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-111**

Equipment ID No. SWP-SOV602A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STNDBY CLG TWR STATION BLACKOUT RETURN VLV AIR SPLY LINE CNTRL  
SO

- 
5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-111**

Equipment ID No. SWP-SOV602A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STNDBY CLG TWR STATION BLACKOUT RETURN VLV AIR SPLY LINE CNTRL  
SO

**Other Adverse Conditions**

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

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

None



Evaluated by: John Dunkelberg

Date: 10-5-2012



Jose Cardona

10-5-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-111**

Equipment ID No. SWP-SOV602A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STNDBY CLG TWR STATION BLACKOUT RETURN VLV AIR SPLY LINE CNTRL SO

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-111**

Equipment ID No. SWP-SOV602A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description STNDBY CLG TWR STATION BLACKOUT RETURN VLV AIR SPLY LINE CNTRL SO



**Note:**

**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-112**

Equipment ID No. JPB-RAK3 Equip. Class<sup>1</sup> 18 – Instrument Racks

Equipment Description AUX BLDG LOCAL INSTR RACK 3

Location: Bldg. AB Floor El. 141 Room, Area 6302

Manufacturer, Model, Etc. (optional but recommended) Mercury Co/Norwood Model JPB-RAK3

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
No missing, bent, broken, or loose hardware
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted rack, fasteners without oxidation
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks at sill

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-112**

Equipment ID No. JPB-RAK3 Equip. Class 18 – Instrument Racks

Equipment Description AUX BLDG LOCAL INSTR RACK 3

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-112**

Equipment ID No. JPB-RAK3 Equip. Class 18 – Instrument Racks

Equipment Description AUX BLDG LOCAL INSTR RACK 3

**Other Adverse Conditions**

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

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

Rack has 7 instruments mounted on it and panel on north side, per dwg 0247.411-296-012E. Panel mounted on sills (welded) with shim blocks, 4" of weld each side, 4 places plus grout under base plate between sills (approx 1" thick)



Evaluated by: J. Dunkelberg Date: 10/9/12



D. Bassi 10/9/12

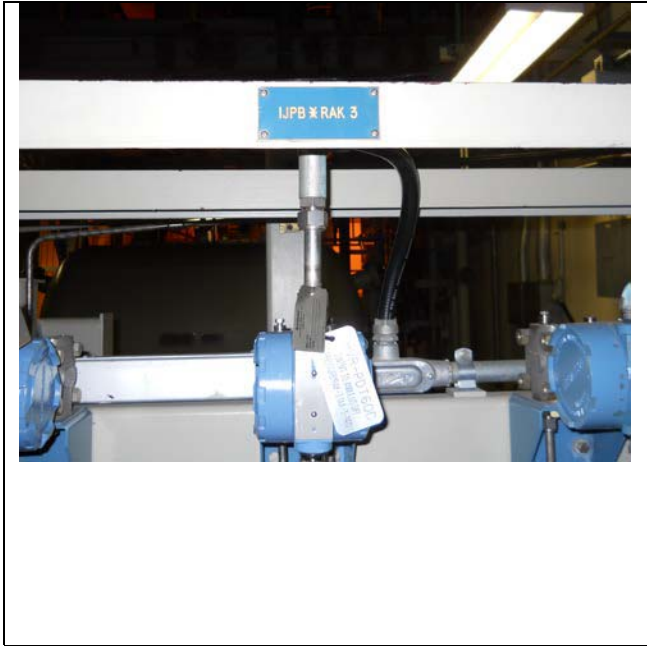
Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-112**

Equipment ID No. JPB-RAK3 Equip. Class 18 – Instrument Racks

Equipment Description AUX BLDG LOCAL INSTR RACK 3

**Photographs**



**Note:**



**Note:**



Status: Y  N  U

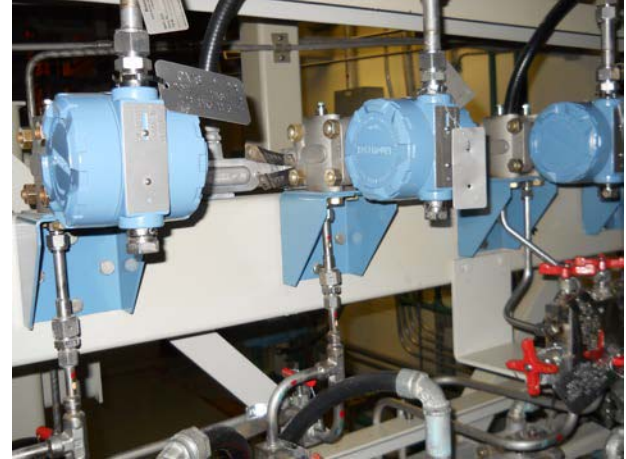
**Seismic Walkdown Checklist (SWC)** SWEL1-112

Equipment ID No. JPB-RAK3 Equip. Class 18 – Instrument Racks

Equipment Description AUX BLDG LOCAL INSTR RACK 3



**Note:**



**Note:**

PAGE 1 OF 5

status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-113**

Equipment ID No. CMS-LT23A Equip. Class<sup>1</sup> 20 – Instrumentation and Control Panels

Equipment Description SUPPRESSION POOL TRANSMITTER (AX 112? - 122')

Location: Bldg. RB Floor El. 114 Room, Area 7200

Manufacturer, Model, Etc. (optional but recommended) Rosemount Model 1153DB5PG / 1154DP5RB

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Component is bolted to bracket and the mounting bracket is bolted to support.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Stainless steel mounting bracket with no visible oxidation.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
Component is mounted to steel.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-113**

Equipment ID No. CMS-LT23A Equip. Class 20 – Instrumentation and Control Panels

Equipment Description SUPPRESSION POOL TRANSMITTER (AX 112? - 122')

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

Anchorage verified in accordance with the following dwgs:

0247.481-130-007

ICRN-14A-06B

C-32002

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

---

**Interaction Effects**

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

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

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

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

PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-113**

Equipment ID No. CMS-LT23A Equip. Class 20 – Instrumentation and Control Panels

Equipment Description SUPPRESSION POOL TRANSMITTER (AX 112? - 122')

**Other Adverse Conditions**

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

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

None



Evaluated by: Matt Keeney Date: 10-3-2012



John Dunkelberg 10-3-2012

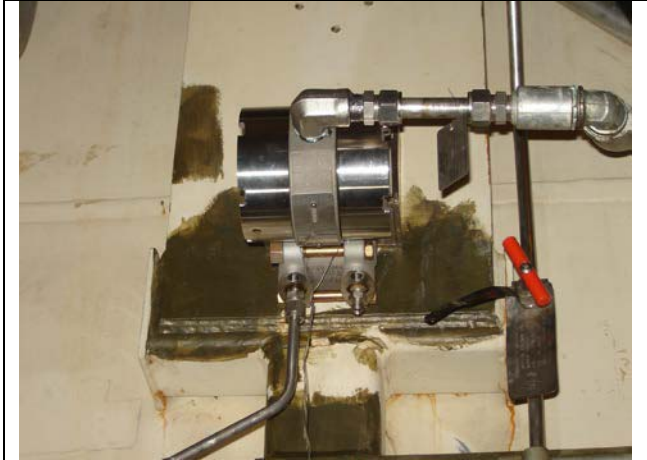
Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-113**

Equipment ID No. CMS-LT23A Equip. Class 20 – Instrumentation and Control Panels

Equipment Description SUPPRESSION POOL TRANSMITTER (AX 112? - 122')

**Photographs**



**Note:**




**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-113**

Equipment ID No. CMS-LT23A Equip. Class 20 – Instrumentation and Control Panels

Equipment Description SUPPRESSION POOL TRANSMITTER (AX 112? - 122')


<p><b>Note:</b></p>

<p><b>Note:</b></p>

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-114**

Equipment ID No. CMS-RTD24F Equip. Class<sup>1</sup> 19 – Temperature Sensors

Equipment Description CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP  
DETECTOR

Location: Bldg. RB Floor El. 095 Room, Area 7100

Manufacturer, Model, Etc. (optional but recommended) Pyco Model 122-3046-12-120.6

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
No 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  
No visible corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No visible cracks in concrete.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-114**

Equipment ID No. CMS-RTD24F Equip. Class 19 – Temperature Sensors

Equipment Description CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR

- 
5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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



PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) - SWEL1-114**

Equipment ID No. CMS-RTD40A Equip. Class 19 – Temperature Sensors

Equipment Description CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR

**Other Adverse Conditions**

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

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

None



Evaluated by: Jason Halsey Date: 10-10-2012



David Bassi 10-10-2012

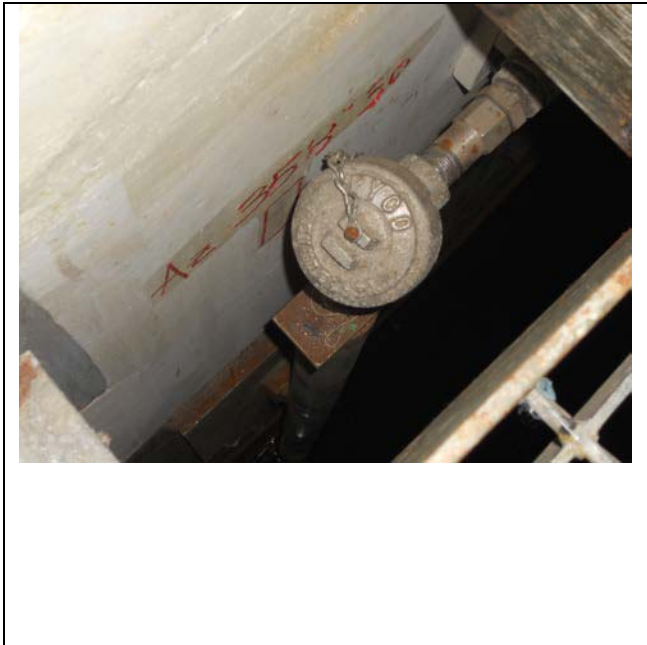
Status: Y  N  U

**Seismic Walkdown Checklist (SWC) - SWEL1-114**

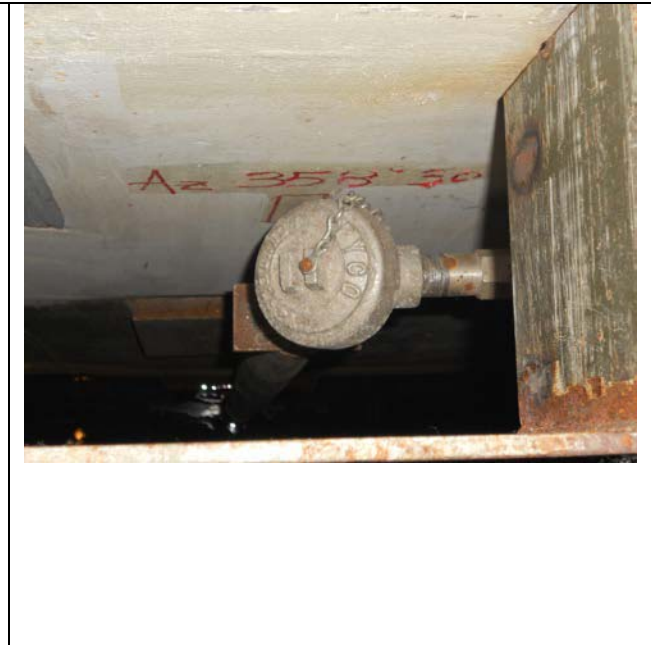
Equipment ID No. CMS-RTD40A Equip. Class 19 – Temperature Sensors

Equipment Description CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-115**

Equipment ID No. CMS-RTD40C Equip. Class<sup>1</sup> 19 – Temperature Sensors

Equipment Description CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP  
DETECTOR

Location: Bldg. RB Floor El. 095 Room, Area 7100

Manufacturer, Model, Etc. (optional but recommended) Pyco Model 122-3046-12-120.6

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Item threaded into support pipe and mounted vertically. Pipe welded to Drywell wall.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Stainless steel material no corrosion noted,
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
Item is not mounted to concrete.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-115**

Equipment ID No. CMS-RTD40C Equip. Class 19 – Temperature Sensors

Equipment Description CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP  
DETECTOR

- 
5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-115**

Equipment ID No. CMS-RTD40C Equip. Class 19 – Temperature Sensors

Equipment Description CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR

**Other Adverse Conditions**

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

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

None



Evaluated by: Matt Keeney Date: 10-3-2012



John Dunkelberg 10-3-2012

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-115**

Equipment ID No. CMS-RTD40C Equip. Class 19 – Temperature Sensors

Equipment Description CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR

**Photographs**



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-116**

Equipment ID No. CMS-AT25A & CMS- PNL-10A Equip. Class<sup>1</sup> 20

Equipment Description CNTNMNT MONITORING SYS H2 ANALYZER XMITTR &PNL10A

Location: Bldg. AB Floor El. 114 Room, Area 6306

Manufacturer, Model, Etc. (optional but recommended) Comsip / Delphi Model B5-K-III

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Bolts/welding to plate in place. Acceptable Y N U N/A
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Painted nuts-no corrosion. Concrete anchors have no corrosion Y N U N/A
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? No cracks noted Y N U N/A

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-116**

Equipment ID No. CMS-AT25A Equip. Class 20

Equipment Description CNTNMNT MONITORING SYS H2 ANALYZER XMITTR

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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



PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-116**

Equipment ID No. CMS-AT25A Equip. Class 20

Equipment Description CNTNMNT MONITORING SYS H2 ANALYZER XMITTR

**Other Adverse Conditions**

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

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

Inspected internals, all fasteners tight, straight, no corrosion, no missing hardware



Evaluated by: J. Dunkelberg Date: 10/8/12



D. Bassi 10/8/12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-116**

Equipment ID No. CMS-AT25A Equip. Class 20

Equipment Description CNTNMNT MONITORING SYS H2 ANALYZER XMITTR

**Photographs**



**Note:**

**Note:**

PAGE 1 OF 10

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-117**

Equipment ID No. EHS-MCC2K Equip. Class<sup>1</sup> 1 – Motor Control Centers and Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2K

Location: Bldg. AB Floor El. 141 Room, Area 6302

Manufacturer, Model, Etc. (optional but recommended) Gould Model Series 5600

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Welded to floor sills
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks observed

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 10

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-117**

Equipment ID No. EHS-MCC2K Equip. Class 1 – Motor Control Centers and Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2K

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 10

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-117**

Equipment ID No. EHS-MCC2K Equip. Class 1 – Motor Control Centers and Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2K

**Other Adverse Conditions**

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

See comments

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

6B, 6C, 3B, 2C – split block cover may not be fully engaged on bottom.

6D, 5A, 4D, 3D, 7D – missing screw in top right corner of cubicle. 2' cubicle – judged to not be a seismic issue, this portion of partition between cubicle and cableway to right secured sufficiently to maintain position.

6A – missing a screw on the transformer - lower right screw, red material directly behind fastener hole

See LB-19; CR-RBS-2012-06869



Evaluated by: J. Dunkelberg

Date: 10/10/12



M. Keeney

10/10/12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-117**

Equipment ID No. EHS-MCC2K Equip. Class 1 – Motor Control Centers and Wall Mounted  
Contactors

Equipment Description AUXILIARY BUILDING MCC2K

**Photographs**



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-117**

Equipment ID No. EHS-MCC2K Equip. Class 1 – Motor Control Centers and Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2K



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-117**

Equipment ID No. EHS-MCC2K Equip. Class 1 – Motor Control Centers and Wall Mounted  
Contactors

Equipment Description AUXILIARY BUILDING MCC2K



**Note:**



**Note:**



Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-117**

Equipment ID No. EHS-MCC2K Equip. Class 1 – Motor Control Centers and Wall Mounted  
Contactors

Equipment Description AUXILIARY BUILDING MCC2K



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-117**

Equipment ID No. EHS-MCC2K Equip. Class 1 – Motor Control Centers and Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2K



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-117**

Equipment ID No. EHS-MCC2K Equip. Class 1 – Motor Control Centers and Wall Mounted  
Contactors

Equipment Description AUXILIARY BUILDING MCC2K



**Note:**



**Note:**

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-117**

Equipment ID No. EHS-MCC2K Equip. Class 1 – Motor Control Centers and Wall Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2K



**Note:**



**Note:**

PAGE 1 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-118**

Equipment ID No. HCS-IGN04A Equip. Class<sup>1</sup> 0 – Other

Equipment Description H2 RECOMB IGNITER 04A

Location: Bldg. RB Floor El. 186 Room, Area 7500

Manufacturer, Model, Etc. (optional but recommended) Power Sys Model 6043-12G / 6043-7G

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Component is on the roof/dome of RB viewed from the RF floor.  
Anchorage pieces visible from RF floor are intact, no damage
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted surfaces
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Attached to steel containment

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-118**

Equipment ID No. HCS-IGN04A Equip. Class 0 – Other

Equipment Description H2 RECOMB IGNITER 04A

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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

PAGE 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-118**

Equipment ID No. HCS-IGN04A Equip. Class 0 – Other

Equipment Description H2 RECOMB IGNITER 04A

**Other Adverse Conditions**

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

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

None



Evaluated by: J. Halsey Date: 10/10/12



D. Bassi 10/10/12

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-118**

Equipment ID No. HCS-IGN04A Equip. Class 0 – Other

Equipment Description H2 RECOMB IGNITER 04A

**Photographs**



**Note:**



**Note:**



PAGE 1 OF 6

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-119**

Equipment ID No. HVR-AOV165 Equip. Class<sup>1</sup> 7 – Pneumatic-Operated Valves

Equipment Description CONTMT SPLY OUTBD ISOL(AL-2-152')

Location: Bldg. AB Floor El. 141 Room, Area 6307

Manufacturer, Model, Etc. (optional but recommended) Posi-Seal Intl Model 10837-3

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Missing 1 of 8 bolts. Between mounting bracket and actuator. Ref. CR-RBS-2012-06352
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Fastener painted, or free of corrosion
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line valve.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-119**

Equipment ID No. HVR-AOV165 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description CONTMT SPLY OUTBD ISOL(AL-2-152')

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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   
Missing 1 of 8 fasteners.

---

**Interaction Effects**

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

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

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

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

PAGE 3 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-119**

Equipment ID No. HVR-AOV165 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description CONTMT SPLY OUTBD ISOL(AL-2-152')

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**Other Adverse Conditions**

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

See comments

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

Valve not insulated, welded to containment, bolted to flange.

Missing 1 bolt, see question 2 above.

Flange bolts: could not observe all, no access of bolts/studs visible is OK.

CR-RBS-2012-06352 written

MCR contacted, Entergy supervisor and manager notified via email

Ref. LB-12

---



Evaluated by: John Dunkelberg

Date: 10/8/2012



David Bassi

10/8/2012


Status: Y  N  U


**Seismic Walkdown Checklist (SWC) SWEL1-119**

Equipment ID No. HVR-AOV165 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description CONTMT SPLY OUTBD ISOL(AL-2-152')

**Photographs**


<b>Note:</b>



<b>Note:</b>

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-119**

Equipment ID No. HVR-AOV165 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description CONTMT SPLY OUTBD ISOL(AL-2-152')


<b>Note:</b>

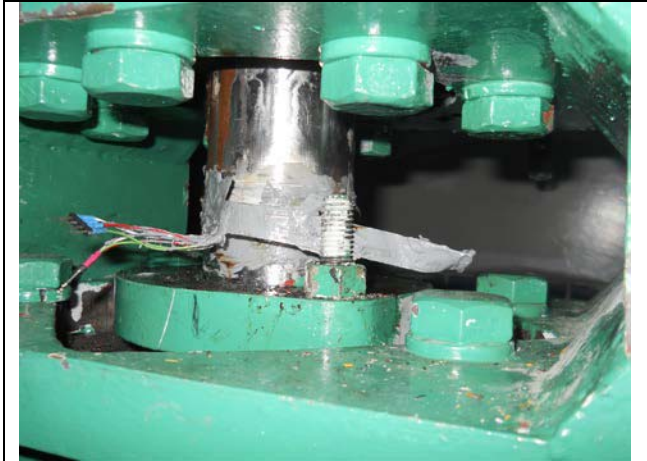

<b>Note:</b>

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-119**

Equipment ID No. HVR-AOV165 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description CONTMT SPLY OUTBD ISOL(AL-2-152')



**Note:**



**Note:**

PAGE 1 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL1-120**

Equipment ID No. HVR-AOV123 Equip. Class<sup>1</sup> 7 – Pneumatic-Operated Valves

Equipment Description CONTMT SPLY INBD ISOL(42? - 152')

Location: Bldg. RB Floor El. 141 Room, Area 9408

Manufacturer, Model, Etc. (optional but recommended) Posi-Seal Int Model 108375

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware?  
In-line mounted valve supported from containment wall. Y N U N/A
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation?  
Anchorage is painted, no corrosion observed. Y N U N/A
  
4. Is the anchorage free of visible cracks in the concrete near the anchors?  
Component mounted in-line to pipe. Y N U N/A

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

PAGE 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-120**

Equipment ID No. HVR-AOV123 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description CONTMT SPLY INBD ISOL(42? - 152')

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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



PAGE 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-120**

Equipment ID No. HVR-AOV123 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description CONTMT SPLY INBD ISOL(42? - 152')

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**Other Adverse Conditions**

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

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

None

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Evaluated by: Matt Keeney Date: 10-3-2012



John Dunkelberg 10-3-2012


Status: Y  N  U


**Seismic Walkdown Checklist (SWC) SWEL1-120**

Equipment ID No. HVR-AOV123 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description CONTMT SPLY INBD ISOL(42? - 152')

**Photographs**


<b>Note:</b>



<b>Note:</b>

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL1-120**

Equipment ID No. HVR-AOV123 Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description CONTMT SPLY INBD ISOL(42? - 152')


<p><b>Note:</b></p>

<p><b>Note:</b></p>

Sheet 1 of 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-001**

Equipment ID No. CCP-MOV130 Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CCP LOOP A OUTLET ISOL VLV

Location: Bldg. AB Floor El. 070 Room, Area 6008

Manufacturer, Model, Etc. (optional but recommended) Jamesbury Model 8226-EX-C-12

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
No missing, bent, broke, or loose fasteners
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line valve

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-001**

Equipment ID No. CCP-MOV130 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CCP LOOP A OUTLET ISOL VLV

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5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

Sheet 3 of 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-001**

Equipment ID No. CCP-MOV130 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CCP LOOP A OUTLET ISOL VLV

---

**Other Adverse Conditions**

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

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

Un-insulated, in-line valve

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Evaluated by: J. Dunkelberg

Date: 10/8/12



D. Bassi

10/8/12

Sheet 4 of 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-001**

Equipment ID No. CCP-MOV130 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CCP LOOP A OUTLET ISOL VLV

**Photographs**



**Note:**



**Note:**

Sheet 1 of 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-002**

Equipment ID No. CCP-MOV16A Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description RPCCW LOOP A NORM SUPPLY VALVE

Location: Bldg. AB Floor El. 070 Room, Area 6008

Manufacturer, Model, Etc. (optional but recommended) Jamesbury Model 8226-EX-C-12

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Anchor free of degraded conditions, none missing. In-line valve, not insulated
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line valve

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.



Sheet 2 of 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-002**

Equipment ID No. CCP-MOV16A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description RPCCW LOOP A NORM SUPPLY VALVE

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

Sheet 3 of 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-002**

Equipment ID No. CCP-MOV16A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description RPCCW LOOP A NORM SUPPLY VALVE

**Other Adverse Conditions**

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

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

Un-insulated valve, in-line. Lights are single hanging with metal safety cover/cage and lens



Evaluated by: J. Dunkelberg Date: 10/8/12



D. Bassi 10/8/12

Sheet 4 of 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-002**

Equipment ID No. CCP-MOV16A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description RPCCW LOOP A NORM SUPPLY VALVE

**Photographs**



**Note:**



**Note:**

Sheet 5 of 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-002**

Equipment ID No. CCP-MOV16A Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description RPCCW LOOP A NORM SUPPLY VALVE



**Note:**

**Note:**

Sheet 1 of 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-003**

Equipment ID No. CCP-MOV163 Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CRD PUMPS SUPPLY VLV

Location: Bldg. FB Floor El. 070 Room, Area 5013

Manufacturer, Model, Etc. (optional but recommended) Velan Model W08-2074X-02TS

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
In-line valve, CS, no bend, broken, or missing hardware.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line valve

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

SHEET 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-003**

Equipment ID No. CCP-MOV163 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CRD PUMPS SUPPLY VLV

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

SHEET 3 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-003**

Equipment ID No. CCP-MOV163 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CRD PUMPS SUPPLY VLV

---

**Other Adverse Conditions**

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

---

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

In-line, un-insulated valve

---



Evaluated by: David Bassi

Date: 10/9/2012



John Dunkelberg

10/9/2012

SHEET 4 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-003**

Equipment ID No. CCP-MOV163 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CRD PUMPS SUPPLY VLV

**Photographs**



**Note:**



**Note:**



SHEET 5 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-003**

Equipment ID No. CCP-MOV163 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CRD PUMPS SUPPLY VLV



**Note:**



**Note:**

SHEET 6 OF 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-003**

Equipment ID No. CCP-MOV163 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CRD PUMPS SUPPLY VLV



Note:



Note:

Sheet 1 of 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-004**

Equipment ID No. CCP-MOV335 Equip. Class<sup>1</sup> 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CCP LOOP A OUTLET MTR OPERATED ISOL VLV

Location: Bldg. AB Floor El. 070 Room, Area 6008

Manufacturer, Model, Etc. (optional but recommended) Jamesbury Model 8226-EX-C-12

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
No missing hardware. All Okay
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line valve

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

SHEET 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-004**

Equipment ID No. CCP-MOV335 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CCP LOOP A OUTLET MTR OPERATED ISOL VLV

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

SHEET 3 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-004**

Equipment ID No. CCP-MOV335 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CCP LOOP A OUTLET MTR OPERATED ISOL VLV

---

**Other Adverse Conditions**

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

---

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

Un-insulated valve, in-line

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Evaluated by: D. Bassi

Date: 10/8/12



J. Dunkelberg

10/8/12

SHEET 4 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-004**

Equipment ID No. CCP-MOV335 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CCP LOOP A OUTLET MTR OPERATED ISOL VLV

**Photographs**



**Note:**



**Note:**

SHEET 5 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-004**

Equipment ID No. CCP-MOV335 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CCP LOOP A OUTLET MTR OPERATED ISOL VLV



**Note:**

**Note:**

Sheet 1 of 13

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. EHS-MCC2H Equip. Class<sup>1</sup> 1 – Motor Control Centers and Wall-Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2H

Location: Bldg. AB Floor El. 114 Room, Area 6203

Manufacturer, Model, Etc. (optional but recommended) Gould Model Series 5600

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
MCC is welded to embedded sill.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No cracks visible.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.



Sheet 2 of 13

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. EHS-MCC2H Equip. Class 1 – Motor Control Centers and Wall-Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2H

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.)  
Ref. 248.000; 0242.562-082-087  
Verified in accordance with above dwg Y  N  U  N/A
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y  N  U
- 

**Interaction Effects**

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

Sheet 3 of 13

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. EHS-MCC2H Equip. Class 1 – Motor Control Centers and Wall-Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2H

---

**Other Adverse Conditions**

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

See comments

---

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

Cubicle 1E – May need edge guard at lower right side of bucket.

Cubicle 3C – The Split block cover is not fully engaged at top.

Cubicles 4D, 7D – Appears to be missing 2 mounting screws for breaker mounting plate. Top right and Middle right.

Cubicle 5B – Split block cover is not installed and is loose in the bottom of bucket.

Ref. CR-RBS-2012-6391; CR-RBS-2012-6399; LB-15

---



Evaluated by: Matt Keeney

Date: 10/10/2012



John Dunkelberg

10/10/2012

Sheet 4 of 13

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. EHS-MCC2H Equip. Class 1 – Motor Control Centers and Wall-Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2H

**Photographs**



**Note:**



**Note:**

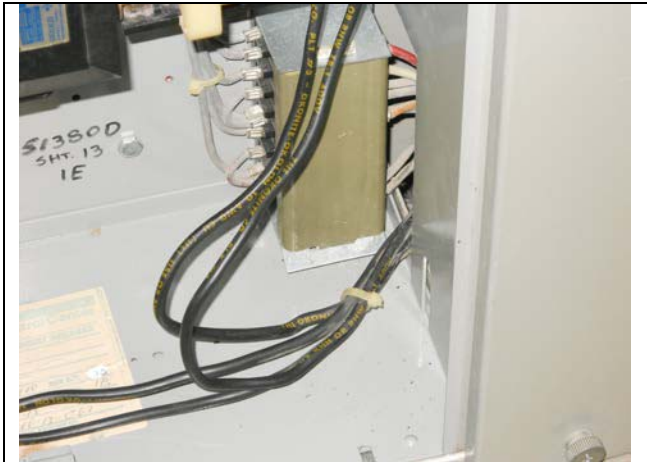
Sheet 5 of 13

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. EHS-MCC2H Equip. Class 1 – Motor Control Centers and Wall-Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2H



**Note:**



**Note:**

Sheet 6 of 13

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. EHS-MCC2H Equip. Class 1 – Motor Control Centers and Wall-Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2H



**Note:**



**Note:**

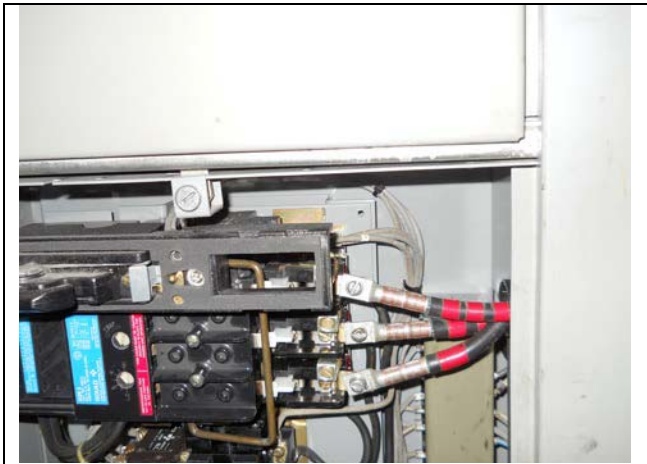
Sheet 7 of 13

Status: Y  N  U

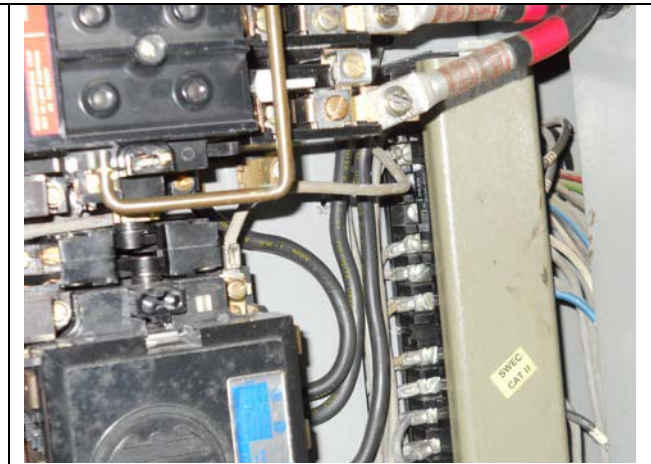
**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. EHS-MCC2H Equip. Class 1 – Motor Control Centers and Wall-Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2H



**Note:**



**Note:**

Sheet 8 of 13

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. EHS-MCC2H Equip. Class 1 – Motor Control Centers and Wall-Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2H



**Note:**



**Note:**

Sheet 9 of 13

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. EHS-MCC2H Equip. Class 1 – Motor Control Centers and Wall-Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2H



**Note:**



**Note:**



Sheet 10 of 13

Status: Y  N  U

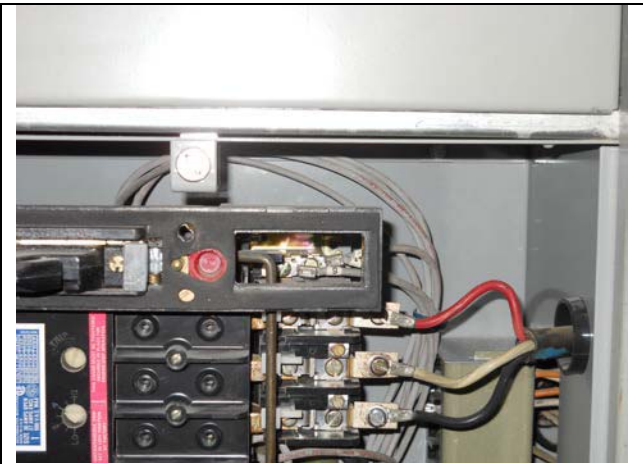
**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. EHS-MCC2H Equip. Class 1 – Motor Control Centers and Wall-Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2H



**Note:**



**Note:**

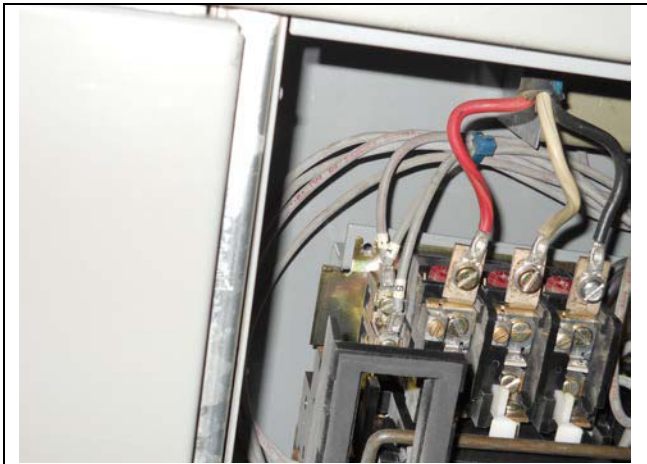
Sheet 11 of 13

Status: Y  N  U

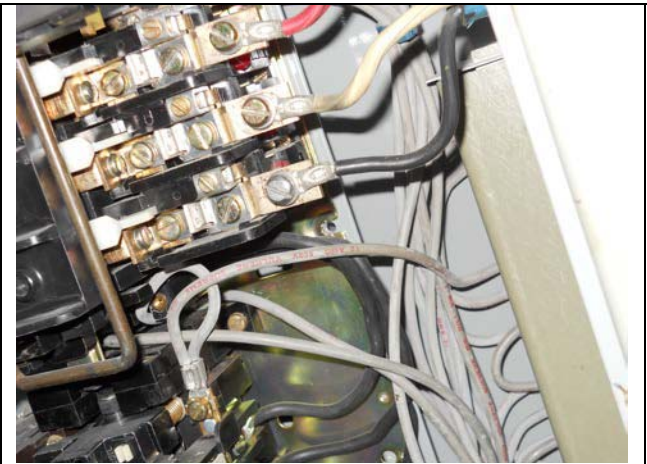
**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. EHS-MCC2H Equip. Class 1 – Motor Control Centers and Wall-Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2H



**Note:**



**Note:**

Sheet 12 of 13

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. EHS-MCC2H Equip. Class 1 – Motor Control Centers and Wall-Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2H



**Note:**



**Note:**

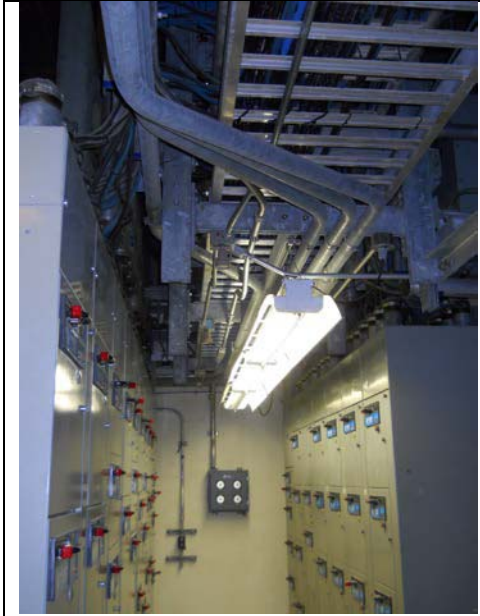
Sheet 13 of 13

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-005**

Equipment ID No. EHS-MCC2H Equip. Class 1 – Motor Control Centers and Wall-Mounted Contactors

Equipment Description AUXILIARY BUILDING MCC2H



**Note:**

**Note:**

Sheet 1 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class<sup>1</sup> 1, Motor Control Centers and Wall-Mounted Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B

Location: Bldg. CB Floor El. 098 Room, Area 1114

Manufacturer, Model, Etc. (optional but recommended) Gould Model EHS-MCC8

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y  N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y  N  U  N/A   
Welded to embedded sill
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y  N  U  N/A   
Painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y  N  U  N/A   
No visible cracks

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 18

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted  
Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This question only applies if the item is one of the 50% for which  
an anchorage configuration verification is required.) Y N U N/A  
Ref. 248.000; 0242.562-082-004  
Verified in accordance with above dwg
6. Based on the above anchorage evaluations, is the anchorage free of  
potentially adverse seismic conditions? Y N U

---

**Interaction Effects**

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

Sheet 3 of 18

Status: Y  N  U **Seismic Walkdown Checklist (SWC) SWEL2-006**Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted  
ContactorsEquipment Description STANDBY SWGR RM 1B MCC8B**Other Adverse Conditions**

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

See comments below

Sheet 4 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B

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

Cubicle 2AT – The breaker is missing the washer behind the rivet head, near the panel cover catch. (is not a seismic issue, REF MR 94-0048)

Cubicle 2B – Split block cover is not fully engaged at bottom---See E&DCR C26399B

Cubicle 1B, Right side of cubicle, temp tag in cableway, FME, not seismic issue.

Cubicle 2D, Right side of cubicle, power cable appears to be tight to bottom of MCC, touching steel. Not seismic issue.

Cubicle 3AB, missing grommet with power cable through back wall. Not seismic issue.

Cubicle 3B, cable way on right of cubicle, loose bolt. Bolt is between cable way and cubicle is installed, but not tight.

Cubicle 3B – top left screw in bucket to upper plate may not be fully engaged (tight)

Cubicle 4C, cableway on right, grommet is not fully engaged. Not seismic issue.

Cubicle 5E, at bottom of cubicle, bottom of door, catch plate appears out of alignment—not seismic issue.

Cubicles 4A, 5C, 7C – Control wire needs to be taped (not a seismic issue)

Cubicle 4D – On mounting plate, not all the mounting screws have washers, not seismic issue.

Cubicle 5A – Center fuse terminal screw on bottom is not seated (no cable installed at this location, not a seismic issue)

Cubicle 5B – Loose MCC screw on bottom right between cubicle and cable way

Cubicle 7A – Loose door latch thumb crew on top right side “door latch” (rework, not a seismic issue)

Cubicle 7F – a piece of foreign material approximately 3” long x 1/2” wide x 1/8” thick is between breaker cubicle and outside panel on the left side of bottom (house keeping, not a seismic issue)

Ref. LB-14; CR-RBS-2012-06847



Sheet 5 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B

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Evaluated by: M. Keeney Date: 10/11/12



J. Dunkelberg 10/11/12

Sheet 6 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B

**Photographs**



**Note:**



**Note:**

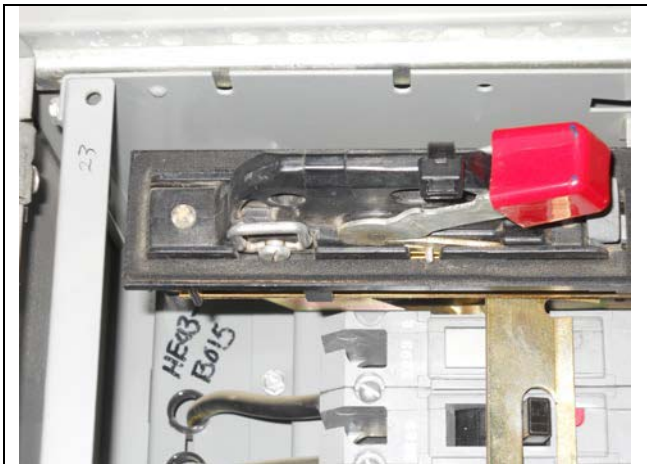
Sheet 7 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted  
Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B



**Note:**



**Note:**

Sheet 8 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B



**Note:**



**Note:**

Sheet 9 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B



Note:



Note:

Sheet 10 of 18

Status: Y  N  U

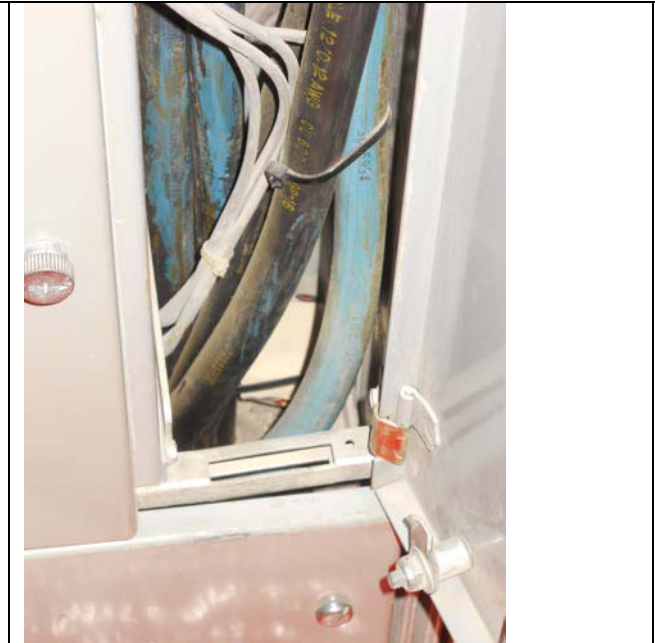
**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted  
Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B



Note:



Note:

Sheet 11 of 18

Status: Y  N  U

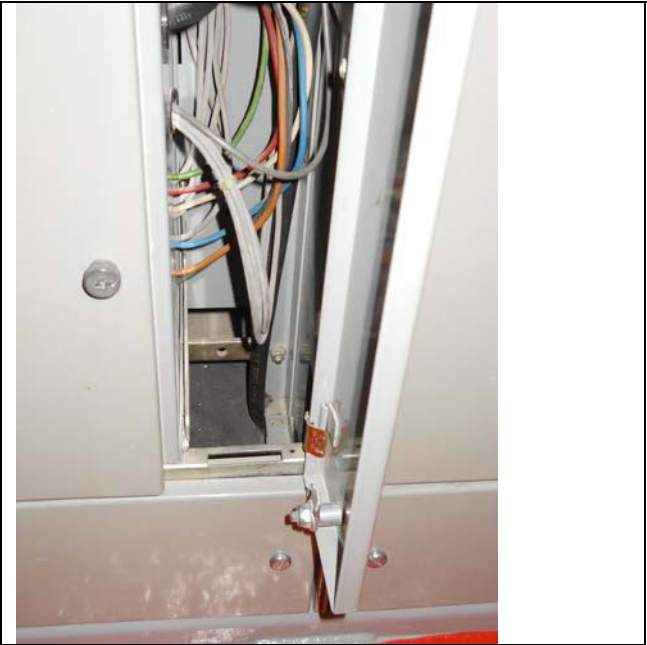
**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B



**Note:**



**Note:**

Sheet 12 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B



Note:



Note:



Sheet 13 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B



**Note:**



**Note:**

Sheet 14 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted  
Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B



**Note:**



**Note:**

Sheet 15 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted  
Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B



**Note:**



**Note:**

Sheet 16 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B



**Note:**



**Note:**

Sheet 17 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B



**Note:**



**Note:**

Sheet 18 of 18

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-006**

Equipment ID No. EHS-MCC8B Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors

Equipment Description STANDBY SWGR RM 1B MCC8B



Note:



Note:

Sheet 1 of 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-008**

Equipment ID No. SFC-AOV31A Equip. Class<sup>1</sup> 7 – Pneumatic-Operated Valves

Equipment Description F POOL PRFCN FLT1A BYP FD-6-87'

Location: Bldg. FB Floor El. 070 Room, Area 5018

Manufacturer, Model, Etc. (optional but recommended) N/A

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
No missing hardware, in-line valve. Welded to pipe. Operator attachment bolts all acceptable.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Stainless steel materials
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line valve

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

SHEET 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-008**

Equipment ID No. SFC-AOV31A Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description F POOL PRFCN FLT1A BYP FD-6-87'

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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



SHEET 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-008**

Equipment ID No. SFC-AOV31A Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description F POOL PRFCN FLT1A BYP FD-6-87'

---

**Other Adverse Conditions**

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

---

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

In-line, un-insulated valve

---



Evaluated by: John Dunkelberg Date: 10/9/2012



David Bassi 10/9/2012

SHEET 4 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-008**

Equipment ID No. SFC-AOV31A Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description F POOL PRFCN FLT1A BYP FD-6-87'

**Photographs**



**Note:**



**Note:**

Sheet 1 of 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-009**

Equipment ID No. SFC-AOV32B Equip. Class<sup>1</sup> 7 – Pneumatic-Operated Valves

Equipment Description F POOL PRFCN FLT1B INLET FD-9-87'

Location: Bldg. FB Floor El. 070 Room, Area 5021

Manufacturer, Model, Etc. (optional but recommended) Vacco Model N5D10026

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Stainless in-line valve not insulated. No missing, bent, broken, loose hardware noted
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Stainless materials and painted
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
In-line valve

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

SHEET 2 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-009**

Equipment ID No. SFC-AOV32B Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description F POOL PRFCN FLT1B INLET FD-9-87'

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

SHEET 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-009**

Equipment ID No. SFC-AOV32B Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description F POOL PRFCN FLT1B INLET FD-9-87'

---

**Other Adverse Conditions**

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

---

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

In-line valve, stainless steel line, not insulated

---



Evaluated by: J. Dunkelberg Date: 10/9/12



D. Bassi 10/9/12

SHEET 4 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-009**

Equipment ID No. SFC-AOV32B Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description F POOL PRFCN FLT1B INLET FD-9-87'

**Photographs**



**Note:**



**Note:**


SHEET 5 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-009**

Equipment ID No. SFC-AOV32B Equip. Class 7 – Pneumatic-Operated Valves

Equipment Description F POOL PRFCN FLT1B INLET FD-9-87'

 A photograph showing a complex arrangement of industrial piping and valves. The pipes are metallic and have various fittings, elbows, and valves. Some valves are black, and others are blue. There are also some electrical conduits and wires visible. The background is a plain, light-colored wall.	
<p><b>Note:</b></p>	<p><b>Note:</b></p>

Sheet 1 of 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-012**

Equipment ID No. SFC-FT19B Equip. Class<sup>1</sup> 20 – Instrumentation and Control Panels

Equipment Description CLR WTR TO SPENT FUEL POOLS FE-8-75'

Location: Bldg. FB Floor El. 070 Room, Area 5000

Manufacturer, Model, Etc. (optional but recommended) Rosemount Model 1152DP5N22PB

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
Transmitter mounted to a bracket with 4 bolts then mounted to instrument support. Support welded to wall embed.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
No corrosion. Cadmium coated
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.



SHEET 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-012**

Equipment ID No. SFC-FT19B Equip. Class 20 – Instrumentation and Control Panels

Equipment Description CLR WTR TO SPENT FUEL POOLS FE-8-75'

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

SHEET 3 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-012**

Equipment ID No. SFC-FT19B Equip. Class 20 – Instrumentation and Control Panels

Equipment Description CLR WTR TO SPENT FUEL POOLS FE-8-75'

---

**Other Adverse Conditions**

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

---

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

None

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Evaluated by: David Bassi Date: 10/9/2012



John Dunkelberg 10/9/2012

SHEET 4 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-012**

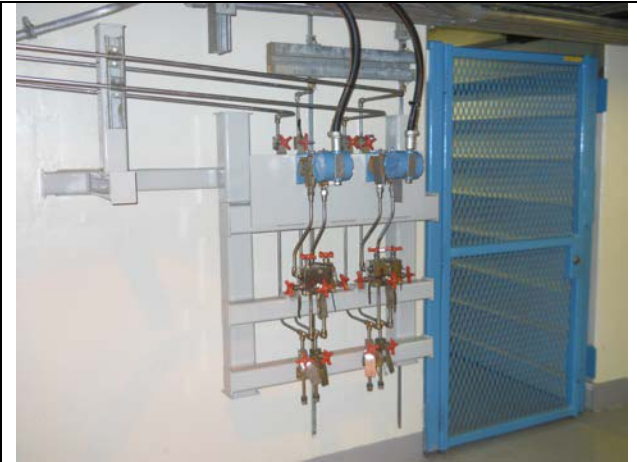
Equipment ID No. SFC-FT19B Equip. Class 20 – Instrumentation and Control Panels

Equipment Description CLR WTR TO SPENT FUEL POOLS FE-8-75'

**Photographs**



**Note:**



**Note:**

SHEET 5 OF 5

Status: Y  N  U

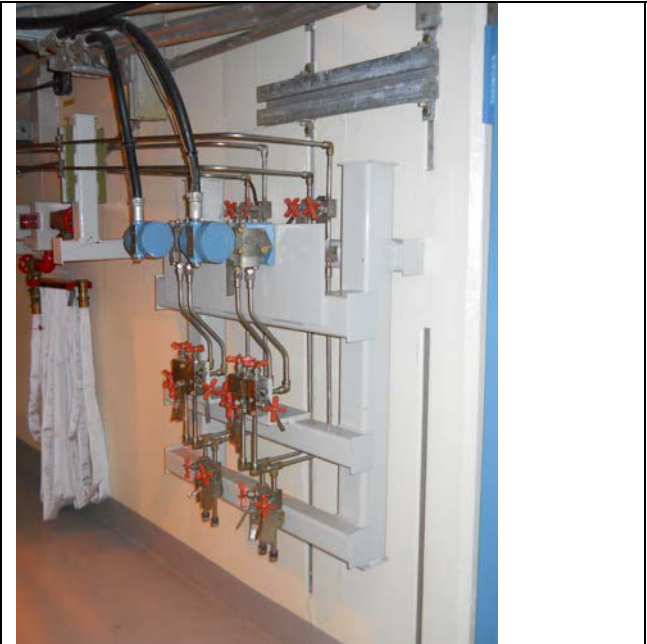
**Seismic Walkdown Checklist (SWC) SWEL2-012**

Equipment ID No. SFC-FT19B Equip. Class 20 – Instrumentation and Control Panels

Equipment Description CLR WTR TO SPENT FUEL POOLS FE-8-75'



**Note:**



**Note:**


Sheet 6 of 6

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-012**

Equipment ID No. SFC-FT19B Equip. Class 20 – Instrumentation and Control Panels

Equipment Description CLR WTR TO SPENT FUEL POOLS FE-8-75'

	
<p><b>Note:</b></p>	<p><b>Note:</b></p>

Sheet 1 of 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-013**

Equipment ID No. SFC-LT28A Equip. Class<sup>1</sup> 20 – Instrumentation and Control Panels

Equipment Description FUEL STORAGE POOL (SPENT FUEL) LEVEL XMITTR

Location: Bldg. FB Floor El. 095 Room, Area 5100

Manufacturer, Model, Etc. (optional but recommended) Rosemount Model 1153DB4PG

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
All hardware is in place and not bent, broken or loose.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Stainless steel materials, no corrosion.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
Component mounted to pool steel (liner/embed)

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

SHEET 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-013**

Equipment ID No. SFC-LT28A Equip. Class 20 – Instrumentation and Control Panels

Equipment Description FUEL STORAGE POOL (SPENT FUEL) LEVEL XMITTR

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

SHEET 3 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-013**

Equipment ID No. SFC-LT28A Equip. Class 20 – Instrumentation and Control Panels

Equipment Description FUEL STORAGE POOL (SPENT FUEL) LEVEL XMITTR

**Other Adverse Conditions**

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

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

None



Evaluated by: John Dunkelberg Date: 10-5-2012



Jose Cardona 10-5-2012



SHEET 4 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-013**

Equipment ID No. SFC-LT28A Equip. Class 20 – Instrumentation and Control Panels

Equipment Description FUEL STORAGE POOL (SPENT FUEL) LEVEL XMITTR

**Photographs**



**Note:**



**Note:**

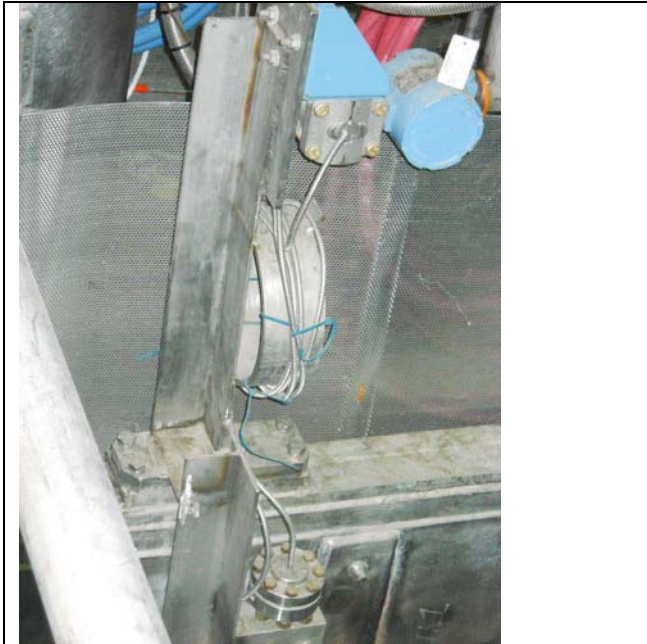
SHEET 5 OF 5

Status: Y  N  U

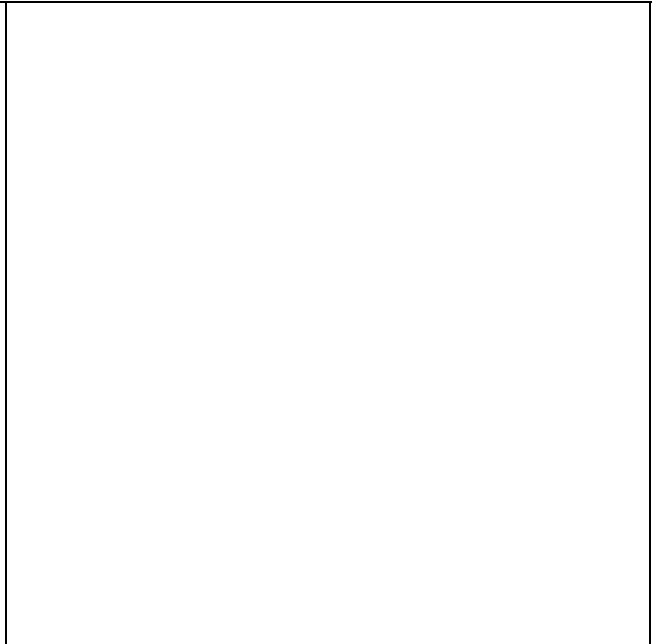
**Seismic Walkdown Checklist (SWC) SWEL2-013**

Equipment ID No. SFC-LT28A Equip. Class 20 – Instrumentation and Control Panels

Equipment Description FUEL STORAGE POOL (SPENT FUEL) LEVEL XMITTR



**Note:**



**Note:**

Sheet 1 of 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-014**

Equipment ID No. SFC-P1A Equip. Class<sup>1</sup> 5 – Horizontal Pumps

Equipment Description FUEL POOL COOLING PUMP 1A

Location: Bldg. FB Floor El. 070 Room, Area 5011

Manufacturer, Model, Etc. (optional but recommended) Gould Model 3405 SZ 10X12-12

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A  
No missing, broken, bent or loose fasteners.
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A  
Minor surface rust.
  
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A  
No cracks observed.

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

SHEET 2 OF 4

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-014**

Equipment ID No. SFC-P1A Equip. Class 5 – Horizontal Pumps

Equipment Description FUEL POOL COOLING PUMP 1A

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

SHEET 3 OF 4

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-014**

Equipment ID No. SFC-P1A Equip. Class 5 – Horizontal Pumps

Equipment Description FUEL POOL COOLING PUMP 1A

**Other Adverse Conditions**

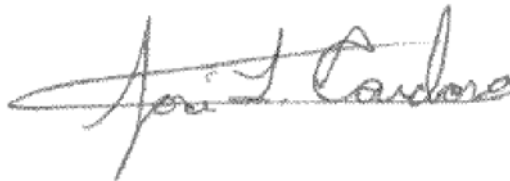
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y  N  U

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

None



Evaluated by: John Dunkelberg Date: 10-5-2012



Jose Cardona 10-5-2012

SHEET 4 OF 4

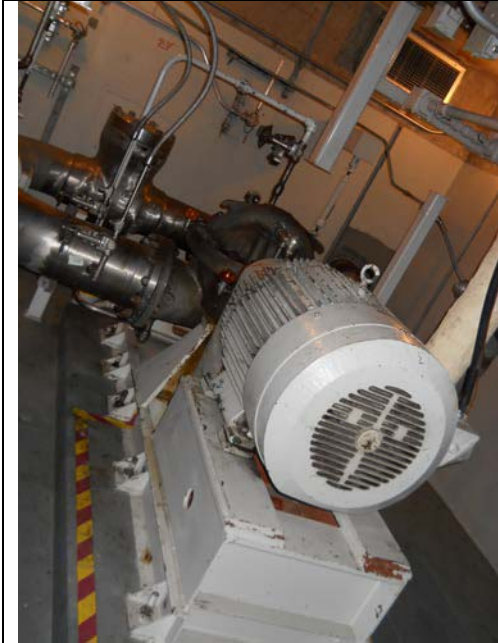
Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-014**

Equipment ID No. SFC-P1A Equip. Class 5 – Horizontal Pumps

Equipment Description FUEL POOL COOLING PUMP 1A

**Photographs**



**Note:**



**Note:**

Sheet 1 of 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-015**

Equipment ID No. SFC-RTD7A Equip. Class<sup>1</sup> 19 – Temperature Sensors

Equipment Description FUEL POOL CLG PMP A SUCT HEADER RESISTANCE TEMP DETECTOR

Location: Bldg. FB Floor El. 070 Room, Area 5000

Manufacturer, Model, Etc. (optional but recommended) Pyco Model 122-4030-04-4.2-9

**Instructions for Completing Checklist**

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

**Anchorage**

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

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

SHEET 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-015**

Equipment ID No. SFC-RTD7A Equip. Class 19 – Temperature Sensors

Equipment Description FUEL POOL CLG PMP A SUCT HEADER RESISTANCE TEMP DETECTOR

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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

---

**Interaction Effects**

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



SHEET 3 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-015**

Equipment ID No. SFC-RTD7A Equip. Class 19 – Temperature Sensors

Equipment Description FUEL POOL CLG PMP A SUCT HEADER RESISTANCE TEMP DETECTOR

**Other Adverse Conditions**

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

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

SFC pump room A



Evaluated by: John Dunkelberg Date: 10/9/2012



Jose Cardona 10/9/2012

SHEET 4 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-015**

Equipment ID No. SFC-RTD7A Equip. Class 19 – Temperature Sensors

Equipment Description FUEL POOL CLG PMP A SUCT HEADER RESISTANCE TEMP DETECTOR

**Photographs**



**Note:**



**Note:**


SHEET 5 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-015**

Equipment ID No. SFC-RTD7A Equip. Class 19 – Temperature Sensors

Equipment Description FUEL POOL CLG PMP A SUCT HEADER RESISTANCE TEMP DETECTOR

	
<p><b>Note:</b></p>	<p><b>Note:</b></p>

	<p><b>Note:</b></p>
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Sheet 1 of 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-016**

Equipment ID No. SWP-MOV504B Equip. Class<sup>1</sup> 8 - Motor-Operated & Solenoid-Operated Valves

Equipment Description RPCCW SYSTEM RETURN

Location: Bldg. AB Floor El. 070 Room, Area 6001

Manufacturer, Model, Etc. (optional but recommended) Velan Model B18-0054B-02TS

**Instructions for Completing Checklist**

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

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
  
2. Is the anchorage free of bent, broken, missing or loose hardware?  
In-line valve, no insulation Y N U N/A
  
3. Is the anchorage free of corrosion that is more than mild surface oxidation?  
Light rusting Y N U N/A
  
4. Is the anchorage free of visible cracks in the concrete near the anchors?  
In-line valve Y N U N/A

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

SHEET 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-016**

Equipment ID No. SWP-MOV504B Equip. Class 8 - Motor-Operated & Solenoid-Operated Valves

Equipment Description RPCCW SYSTEM RETURN

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

SHEET 3 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-016**

Equipment ID No. SWP-MOV504B Equip. Class 8 - Motor-Operated & Solenoid-Operated Valves

Equipment Description RPCCW SYSTEM RETURN

---

**Other Adverse Conditions**

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

---

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

None

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Evaluated by: Matt Keeney

Date: 10/8/2012



Brandon Nissing

10/8/2012

SHEET 4 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-016**

Equipment ID No. SWP-MOV504B Equip. Class 8 - Motor-Operated & Solenoid-Operated Valves

Equipment Description RPCCW SYSTEM RETURN

**Photographs**



**Note:**



**Note:**

SHEET 5 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-016**

Equipment ID No. SWP-MOV504B Equip. Class 8 - Motor-Operated & Solenoid-Operated Valves

Equipment Description RPCCW SYSTEM RETURN



**Note:**

**Note:**



Sheet 1 of 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-017**

Equipment ID No. SWP-MOV510B Equip. Class<sup>1</sup> 8 – Motor-Operated & Solenoid-Operated Valves

Equipment Description RPCCW SYSTEM SUPPLY

Location: Bldg. AB Floor El. 070 Room, Area 6001

Manufacturer, Model, Etc. (optional but recommended) Velan Model B18-0054B-02TS

**Instructions for Completing Checklist**

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

**Anchorage**

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

<sup>1</sup> Enter the equipment class name from Appendix B: Classes of Equipment.

SHEET 2 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-017**

Equipment ID No. SWP-MOV510B Equip. Class 8 - Motor-Operated & Solenoid-Operated Valves

Equipment Description RPCCW SYSTEM SUPPLY

---

5. Is the anchorage configuration consistent with plant documentation?  
(Note: This 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
- 

**Interaction Effects**

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

SHEET 3 OF 5

Status: Y N U

**Seismic Walkdown Checklist (SWC) SWEL2-017**

Equipment ID No. SWP-MOV510B Equip. Class 8 - Motor-Operated & Solenoid-Operated Valves

Equipment Description RPCCW SYSTEM SUPPLY

---

**Other Adverse Conditions**

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

---

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

None

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Evaluated by: Matt Keeney Date: 10/8/2012



Brandon Nissing 10/8/2012

SHEET 4 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-017**

Equipment ID No. SWP-MOV510B Equip. Class 8 - Motor-Operated & Solenoid-Operated Valves

Equipment Description RPCCW SYSTEM SUPPLY

**Photographs**



**Note:**



**Note:**

SHEET 5 OF 5

Status: Y  N  U

**Seismic Walkdown Checklist (SWC) SWEL2-017**

Equipment ID No. SWP-MOV510B Equip. Class 8 - Motor-Operated & Solenoid-Operated Valves

Equipment Description RPCCW SYSTEM SUPPLY



**Note:**



**Note:**

# **Attachment D**

## **Area Walk-By Checklists (AWC)**

Table D-1 below shows which Seismic Walkdown Checklist(s) (SWC) are on each Area Walkby Checklist (AWC).

Table D-1

<b>AWC #</b>	<b>SWEL #</b>
1010	1-010
1012	1-012
1014	1-014, 1-015, 1-018, 1-019, 1-021
1016	1-016, 2-002
1017	1-017, 1-022
1020	1-020
1023	1-023, 1-031
1024	1-024
1027	1-027
1028	1-028
1029	1-029, 10-30
1036	1-036
1037	1-037, 1-032, 1-034, 1-035
1043	1-043, 1-038, 1-039, 1-040, 1-041, 1-043, 1-044
1046	1-046, 1-083
1048	1-048
1049	1-049, 1-051, 1-054
1055	1-055
1056	1-056
1057	1-057, 1-058

<b>AWC #</b>	<b>SWEL #</b>
1062	1-062, 1-052, 1-053, 1-061
1063	1-063, 1-060
1064	1-064, 1-005, 1-007, 1-091, 1-093, 1-095
1066	1-066, 1-068, 1-073
1067	1-067
1069	1-069
1070	1-070, 1-065, 1-071
1072	1-072, 1-074
1075	1-075, 1-076, 1-077, 1-078, 1-104, 1-109
1082	1-082, 1-079, 1-080
1084	1-074, 1-105
1085	1-085
1086	1-086
1087	1-087
1088	1-088
1089	1-089
1090	1-090, 1-009, 1-011, 1-013
1092	1-092, 1-006, 1-008, 1-094, 1-096
1106	1-106, 1-047, 1-108
1107	1-107, 1-099, 1-111
1112	1-112, 1-117
1113	1-113
1114	1-114



<b>AWC #</b>	<b>SWEL #</b>
1115	1-115
1116	1-116, 1-119
1118	1-118
1120	1-120
2001	2-001, 2-004
2003	2-003
2005	2-005
2006	2-006
2008	2-008
2009	2-009
2012	2-012
2013	2-013
2014	2-014, 2-015
2016	2-016, 1-025, 2-017

Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1010**

Location: Bldg. RB Floor El. 141 Room, Area<sup>1</sup> 7200

**SWEL Components: SWEL1-010**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1010**

---

Location: Bldg. RB Floor El. 141 Room, Area 7200

---

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

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

---

Sheet 3 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1010**

Location: Bldg. RB Floor El. 141 Room, Area 7200

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

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

None



Evaluated by: Matt Keeney Date: 10-9-2012



Jason Halsey 10-9-2012

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1010**

Location: Bldg. RB Floor El. 141 Room, Area 7200

**SWEL Components: SWEL1-010**

**Photographs**



**Note:**

**Note:**

Sheet 1 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1012**

Location: Bldg. RB Floor El. 114 Room, Area<sup>1</sup> 7200

**SWEL Components: SWEL1-012**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1012**

---

Location: Bldg. RB Floor El. 114 Room, Area 7200

---

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

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

---

Sheet 3 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1012**

Location: Bldg. RB Floor El. 114 Room, Area 7200

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

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

None



Evaluated by: Matt Keeney Date: 10-3-2012



John Dunkelberg 10-3-2012



Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1014**

---

Location: Bldg. AB Floor El. 070 Room, Area<sup>†</sup> 6006

---

**SWEL Components: SWEL1-014, SWEL 1-015, SWEL 1-018, SWEL 1-019, SWEL 1-021**

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**Instructions for Completing Checklist**

This checklist may 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

---

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1014**

---

Location: Bldg. AB Floor El. 070 Room, Area 6006

---

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

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

---

Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1014**

Location: Bldg. AB Floor El. 070 Room, Area 6006

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


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

None



Evaluated by: John Dunkelberg

Date: 10-6-2012



Jose Cardona

10-6-2012

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1016**

---

Location: Bldg. AB Floor El. 070 Room, Area<sup>†</sup> 6008

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**SWEL Components: SWEL1-016, SWEL2-002**

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**Instructions for Completing Checklist**

This checklist may 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

---

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1016**

---

Location: Bldg. AB Floor El. 070 Room, Area 6008

---

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

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

---

Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1016**

Location: Bldg. AB Floor El. 070 Room, Area 6008

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

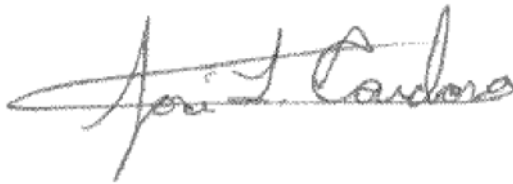
**Comments** (Additional pages may be added as necessary)

None



Evaluated by: John Dunkelberg

Date: 10/6/2012



Jose Cardona

10/6/2012

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1017**

---

Location: Bldg. AB Floor El. 070 Room, Area<sup>1</sup> 6112

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**SWEL Components: SWEL1-017, SWEL1-022**

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**Instructions for Completing Checklist**

This checklist may 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

---

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1017**

---

Location: Bldg. AB Floor El. 070 Room, Area 6112

---

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

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

---



Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1017**

Location: Bldg. AB Floor El. 070 Room, Area 6112

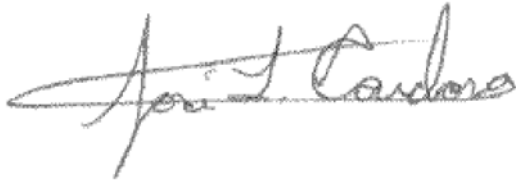
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

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

None



Evaluated by: John Dunkelberg Date: 10/6/2012



Jose' Cardona 10/6/2012

Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1020**

---

Location: Bldg. D Tunnel Floor El. 070 Room, Area<sup>1</sup> 20D1

---

**SWEL Components: SWEL1-020**

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**Instructions for Completing Checklist**

This checklist may 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

---

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1020**

---

Location: Bldg. D Tunnel Floor El. 070 Room, Area 20D1

---

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

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

---

Sheet 3 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1020**

Location: Bldg. D Tunnel Floor El. 070 Room, Area 20D1

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

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

None



Evaluated by: Jason Halsey Date: 10-10-2012



David Bassi 10-10-2012

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1020**

Location: Bldg. D Tunnel Floor El. 070 Room, Area 20D1

**SWEL Components: SWEL1-020**

**Photographs**



**Note:**



**Note:**

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1023**

---

Location: Bldg. DG Floor El. 098 Room, Area<sup>1</sup> 1104

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**SWEL Components: SWEL1-023, SWEL1-031**

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**Instructions for Completing Checklist**

This checklist may 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

---

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1023**

---

Location: Bldg. DG Floor El. 098 Room, Area 1104

---

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

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

---

Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1023**

Location: Bldg. DG Floor El. 098 Room, Area 1104

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

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

None



Evaluated by: Jason Halsey Date: 10/5/2012



Brandon Nissing 10/5/2012



Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1024**

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Location: Bldg. F Tunnel Floor El. 067 Room, Area<sup>†</sup> 5000

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**SWEL Components: SWEL1-024**

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**Instructions for Completing Checklist**

This checklist may 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

---

Sheet 2 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1024**

---

Location: Bldg. F Tunnel Floor El. 067 Room, Area 5000

---

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

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

---

Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1024**

Location: Bldg. F Tunnel Floor El. 067 Room, Area 5000

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

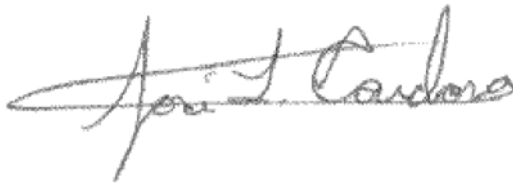
**Comments** (Additional pages may be added as necessary)

None



Evaluated by: John Dunkelberg

Date: 10/5/2012



Jose Cardona

10/5/2012

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1027**

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Location: Bldg. DG Floor El. 098 Room, Area<sup>1</sup> 1104

---

**SWEL Components: SWEL1-027**

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**Instructions for Completing Checklist**

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---

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

---

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1027**

---

Location: Bldg. DG Floor El. 098 Room, Area 1104

---

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

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

---

Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1027**

Location: Bldg. DG Floor El. 098 Room, Area 1104

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

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

None



Evaluated by: Jason Halsey Date: 10-5-2012



Brandon Nissing 10-5-2012

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1028**

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Location: Bldg. CB Floor El. 115 Room, Area<sup>1</sup> 1207

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**SWEL Components: SWEL1-028**

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**Instructions for Completing Checklist**

This checklist may 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

---

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1028**

---

Location: Bldg. CB Floor El. 115 Room, Area 1207

---

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

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

---



Sheet 3 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1028**

Location: Bldg. CB Floor El. 115 Room, Area 1207

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

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

None



Evaluated by: Jason Halsey Date: 10-5-2012



Brandon Nissing 10-5-2012

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1029**

Location: Bldg. CB Floor El. 116 Room, Area<sup>1</sup> N/A

**SWEL Components: SWEL1-029, SWEL1-030**

**Instructions for Completing Checklist**

This checklist may 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

\_\_\_\_\_

Sheet 2 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1029**

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Location: Bldg. CB Floor El. 116 Room, Area N/A

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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

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

---

Sheet 3 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1029**

Location: Bldg. CB Floor El. 116 Room, Area N/A

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

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

None



Evaluated by: Jason Halsey Date: 10-5-2012



Brandon Nissing 10-5-2012

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1036**

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Location: Bldg. CB Floor El. 070 Room, Area<sup>1</sup> 6112

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**SWEL Components: SWEL1-036**

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**Instructions for Completing Checklist**

This checklist may 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

---

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1036**

---

Location: Bldg. CB Floor El. 070 Room, Area 6112

---

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

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

---

Sheet 3 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1036**

Location: Bldg. CB Floor El. 070 Room, Area 6112

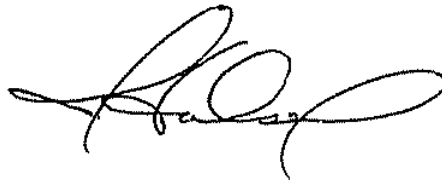
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

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

None



Evaluated by: Matt Keeney Date: 10/8/2012



Jason Halsey 10/8/2012

Sheet 1 of 6

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1037**

Location: Bldg. AB Floor El. 070 Room, Area<sup>†</sup> 6005

**SWEL Components: SWEL1-037, SWEL1-035, SWEL1-032, SWEL1-034**

**Instructions for Completing Checklist**

This checklist may 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

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Sheet 2 of 6

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1037**

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Location: Bldg. AB Floor El. 070 Room, Area 6005

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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

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

---

Sheet 3 of 6

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1037**

Location: Bldg. AB Floor El. 070 Room, Area 6005

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  
See Comments

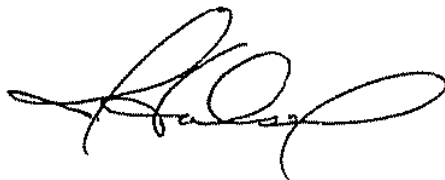
**Comments** (Additional pages may be added as necessary)

General house keeping issue: small container with what appears to be oil (28 oz.)  
Ref. WR-00288442

Walk-by area is elevation 70 ft of the RCIC room, Aux Bldg.



Evaluated by: M. Keeney Date: 10/8/12



J. Halsey 10/8/12

Sheet 4 of 6

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1037**

Location: Bldg. AB Floor El. 070 Room, Area 6005

**SWEL Components: SWEL1-037**

**Photographs**



**Note:**

**Note:**

Sheet 5 of 6

Status: Y  N  U

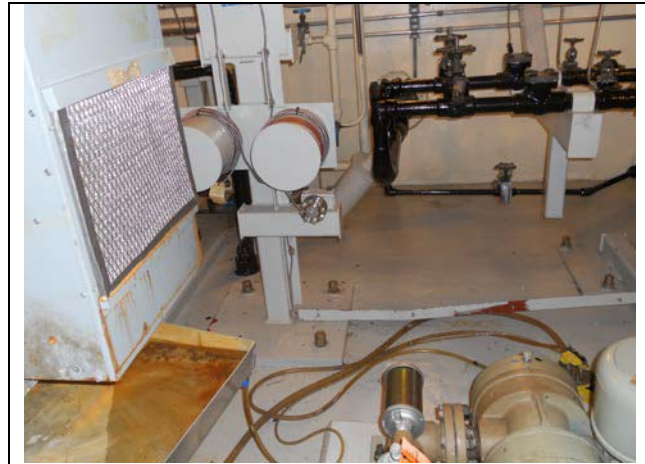
**Area Walk-By Checklist (AWC) AWC-1037**

Location: Bldg. AB Floor El. 070 Room, Area 6005

**SWEL Components: SWEL1-037**



**Note:**



**Note:**

Sheet 6 of 6

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1037**

Location: Bldg. AB Floor El. 070 Room, Area 6005

**SWEL Components: SWEL1-037**



**Note:**



**Note:**

Sheet 1 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1043**

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Location: Bldg. DG Floor El. 098 Room, Area<sup>1</sup> 1106

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**SWEL Components: SWEL1-043, SWEL1-038, SWEL1-039, SWEL1-040, SWEL1-041, SWEL1-043, SWEL1-044**

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**Instructions for Completing Checklist**

This checklist may 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

---

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1043**

---

Location: Bldg. DG Floor El. 098 Room, Area 1106

---

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

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

---

Sheet 3 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1043**

Location: Bldg. DG Floor El. 098 Room, Area 1106

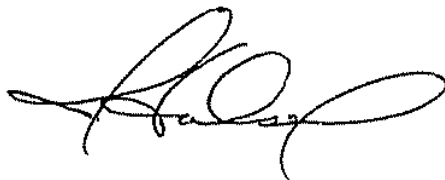
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

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

Threaded fire protection piping connections used but all are adequately restrained.



Evaluated by: M. Keeney Date: 10-2-12



J. Halsey 10-2-12



Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1043**

Location: Bldg. DG Floor El. 098 Room, Area 1106

**SWEL Components: SWEL1-043**

**Photographs**



**Note:** Over-head – facing East



**Note:** Over-head – facing west

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1046**

---

Location: Bldg. DG Floor El. 098 Room, Area<sup>1</sup> 1107

---

**SWEL Components: SWEL1-046, SWEL1-083**

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**Instructions for Completing Checklist**

This checklist may 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

---

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1046**

---

Location: Bldg. DG Floor El. 098 Room, Area 1107

---

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

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

---

Sheet 3 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1046**

Location: Bldg. DG Floor El. 098 Room, Area 1107

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

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

None



Evaluated by: Jason Halsey Date: 10-5-2012



Brandon Nissing 10-5-2012

Sheet 1 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1048**

Location: Bldg. AB Floor El. 141 Room, Area<sup>1</sup> 6302

**SWEL Components: SWEL1-048**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1048**

---

Location: Bldg. AB Floor El. 141 Room, Area 6302

---

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A  
See comments on sprinkler head

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

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

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

---

Sheet 3 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1048**

Location: Bldg. AB Floor El. 141 Room, Area 6302

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   
See comments

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

EHS-MCC2D – backside, directly behind cubicle 2D, lower right hand door screw is not fully engaged (approx 1/2" sticking out); backside, directly behind cubicle 4A, door hinge needs readjustment. Door is currently secure with tight fit

1TL803B Vertical Cable tray – sprinkler head about 20' in overhead is very close (almost touching) cable tray. Behind EHS-MCC2B, north end.

Above COP-H230 (EJS-SWG2B area), there is a length of rope in the overhead.

Ref. AWC-1112 for JPB-RAK3 for adjacent area

Ref. LB-18; CR-RBS-2012-06446



Evaluated by: D. Bassi

Date: 10/12/12



J. Dunkelberg

10/12/12

Sheet 4 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1048**

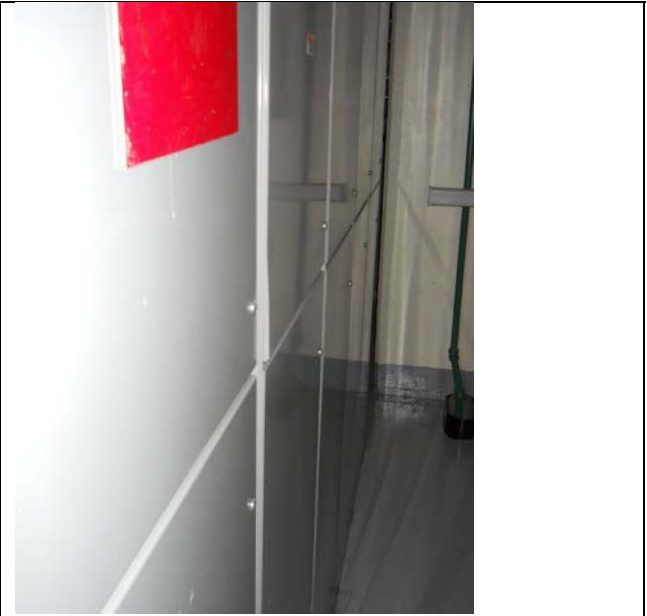
Location: Bldg. AB Floor El. 141 Room, Area 6302

**SWEL Components: SWEL1-048**

**Photographs**



**Note:**



**Note:**



Sheet 5 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1048**

Location: Bldg. AB Floor El. 141 Room, Area 6302

**SWEL Components: SWEL1-048**



**Note:**



**Note:**

Sheet 1 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1049**

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Location: Bldg. AB Floor El. 141 Room, Area 6306

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**SWEL Components: SWEL1-049, SWEL1-051, SWEL1-054**

---

**Instructions for Completing Checklist**

This checklist may 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

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1049**

---

Location: Bldg. AB Floor El. 141 Room, Area 6306

---

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

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

---

Sheet 3 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1049**

Location: Bldg. AB Floor El. 141 Room, Area 6306

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


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

None



Evaluated by: John Dunkelberg

Date: 10-5-2012



Jose Cardona

10-5-2012

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1055**

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Location: Bldg. SCT Floor El. 136 Room, Area<sup>1</sup> N/A

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**SWEL Components: SWEL1-055**

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**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1055**

---

Location: Bldg. SCT Floor El. 136 Room, Area 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

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

---

Sheet 3 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1055**

Location: Bldg. SCT Floor El. 136 Room, Area N/A

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

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

None



Evaluated by: Jason Halsey Date: 10-4-2012



Matt Keeney 10-4-2012

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1056**

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Location: Bldg. CB Floor El. 116 Room, Area<sup>1</sup> N/A

---

**SWEL Components: SWEL1-056**

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**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.



Sheet 2 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1056**

---

Location: Bldg. CB Floor El. 116 Room, Area 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

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

---

Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1056**

Location: Bldg. CB Floor El. 116 Room, Area N/A

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

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

None



Evaluated by: Jason Halsey Date: 10/5/2012



Brandon Nissing 10/5/2012

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1057**

Location: Bldg. CB Floor El. 116 Room, Area<sup>1</sup> 1214

**SWEL Components: SWEL1-057, SWEL1-058**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1057**

---

Location: Bldg. CB Floor El. 116 Room, Area 1214

---

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

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

---

Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1057**

Location: Bldg. CB Floor El. 116 Room, Area 1214

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

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

None



Evaluated by: Jason Halsey Date: 10/5/2012



Brandon Nissing 10/5/2012

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1062**

Location: Bldg. CB Floor El. 098 Room, Area<sup>1</sup> 1117

**SWEL Components: SWEL1-062, SWEL1-052, SWEL1-053, SWEL1-061**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1062**

---

Location: Bldg. CB Floor El. 098 Room, Area 1117

---

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

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

---

Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1062**

Location: Bldg. CB Floor El. 098 Room, Area 1117

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

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

None



Evaluated by: Jason Halsey Date: 10-4-2012



Matt Keeney 10-4-2012



Sheet 1 of 10

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1063**

Location: Bldg. CB Floor El. 136 Room, Area<sup>1</sup> 1310

**SWEL Components: SWEL1-063, SWEL1-060**

**Instructions for Completing Checklist**

This checklist may 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

Main Control Panels closed, could not see anchorage.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y  N  U  N/A

Could not observe.

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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 10

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1063**

---

Location: Bldg. CB Floor El. 136 Room, Area 1310

---

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  
Ceiling tiles/lighting seismically designed.

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  
Temp I&C workd tables set up adjacent to panels, with loose equipment on table. Several loose items – P&ID chart, stick files on wheels, several office supply cabinets not attached to floor or adjacent panels. Further Evaluation Required. See LB-04

---

Sheet 3 of 10

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1063**

Location: Bldg. CB Floor El. 136 Room, Area 1310

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

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

See Question 7; I&C Maintenance contacted  
Area – Main Control Room, CB Elev. 136'

See LB-04



Evaluated by: John Dunkelberg

Date: 10-1-2012



Jose Cardona

10-1-12

Sheet 4 of 10

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1063**

Location: Bldg. CB Floor El. 136 Room, Area 1310

**SWEL Components: SWEL1-073**

**Photographs**



**Note:**



**Note:**

Sheet 5 of 10

Status: Y  N  U

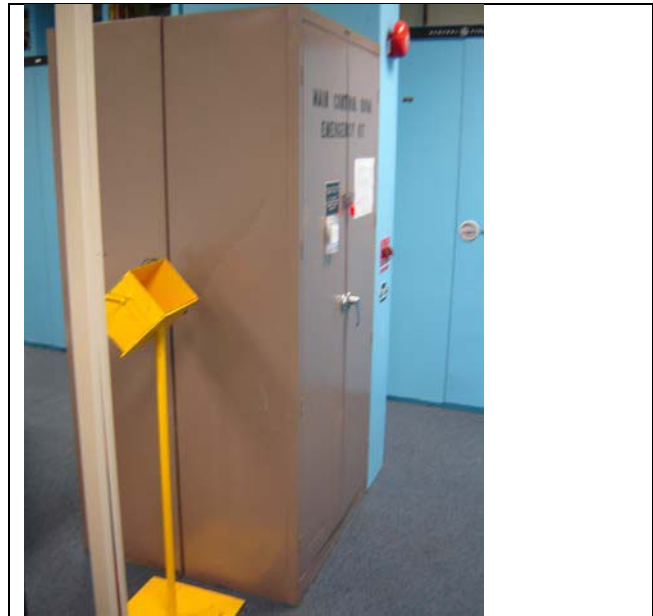
**Area Walk-By Checklist (AWC) AWC-1063**

Location: Bldg. CB Floor El. 136 Room, Area 1310

**SWEL Components: SWEL1-063**



**Note:**



**Note:**

Sheet 6 of 10

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1063**

Location: Bldg. CB Floor El. 136 Room, Area 1310

**SWEL Components: SWEL1-063**



**Note:**



**Note:**

Sheet 7 of 10

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1063**

Location: Bldg. CB Floor El. 136 Room, Area 1310

**SWEL Components: SWEL1-063**



**Note:**



**Note:**

Sheet 8 of 10

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1063**

Location: Bldg. CB Floor El. 136 Room, Area 1310

**SWEL Components: SWEL1-063**



**Note:**



**Note:**



Sheet 9 of 10

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1063**

Location: Bldg. CB Floor El. 136 Room, Area 1310

**SWEL Components: SWEL1-063**



**Note:**



**Note:**

Sheet 10 of 10

Status: Y  N  U

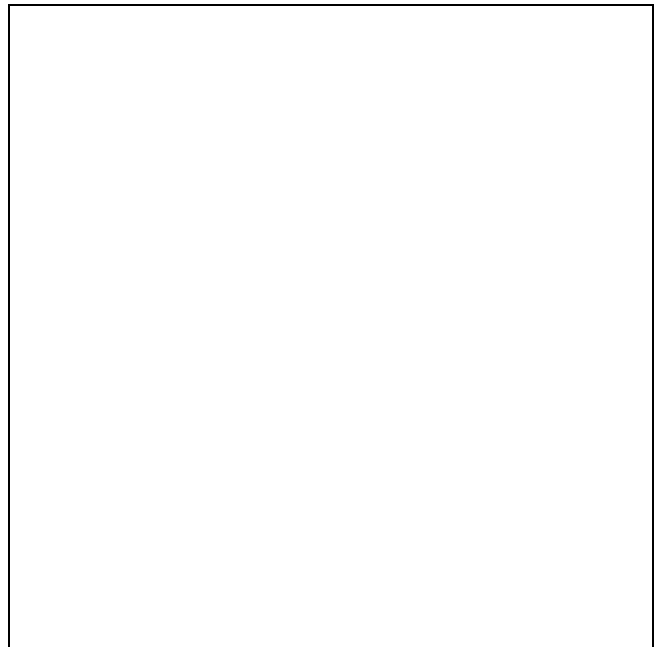
**Area Walk-By Checklist (AWC) AWC-1063**

Location: Bldg. CB Floor El. 136 Room, Area 1310

**SWEL Components: SWEL1-063**



**Note:**



**Note:**

Sheet 1 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1064**

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Location: Bldg. RB Floor El. 114 Room, Area<sup>1</sup> 7207

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**SWEL Components: SWEL1-064, SWEL1-005, SWEL1-007, SWEL1-091, SWEL1-093, SWEL1-095**

---

**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1064**

---

Location: Bldg. RB Floor El. 114 Room, Area 7207

---

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

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

---

Sheet 3 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1064**

Location: Bldg. RB Floor El. 114 Room, Area 7207

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

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

None



Evaluated by: Matt Keeney Date: 10-9-2012



Jason Halsey 10-9-12

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1064**

Location: Bldg. RB Floor El. 114 Room, Area 7207

**SWEL Components: SWEL1-064**

**Photographs**



**Note:**

**Note:**

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1066**

Location: Bldg. CB Floor El. 070 Room, Area<sup>1</sup> 1011

**SWEL Components: SWEL1-066, SWEL1-068, SWEL1-073**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1066**

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Location: Bldg. CB Floor El. 070 Room, Area 1011

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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

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

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

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Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1066**

Location: Bldg. CB Floor El. 070 Room, Area 1011

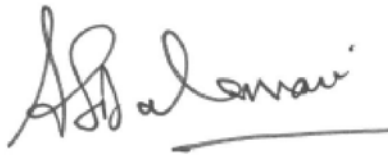
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

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

None



Evaluated by: David Bassi Date: 10/1/2012



A.S. Dalawari 10/1/2012

Sheet 1 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1067**

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Location: Bldg. AB Floor El. 114 Room, Area<sup>1</sup> 6201

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**SWEL Components: SWEL1-067**

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**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1067**

---

Location: Bldg. AB Floor El. 114 Room, Area 6201

---

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

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

---

Sheet 3 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1067**

Location: Bldg. AB Floor El. 114 Room, Area 6201

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)

Loose dead ended cable sitting on top of RCP-TCA07 . TSE tag attached, identifying it as part of a temp installation



Evaluated by: J. Halsey Date: 10/10/12



D. Bassi 10/10/12

Sheet 4 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1067**

Location: Bldg. AB Floor El. 114 Room, Area 6201

**SWEL Components: SWEL1-067**

**Photographs**



**Note:**



**Note:**

Sheet 5 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1067**

Location: Bldg. AB Floor El. 114 Room, Area 6201

**SWEL Components: SWEL1-067**



**Note:**



**Note:**

Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1069**

Location: Bldg. CB Floor El. 070 Room, Area<sup>1</sup> N/A

**SWEL Components: SWEL1-069**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1069**

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Location: Bldg. CB Floor El. 070 Room, Area N/A

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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

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

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

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Sheet 3 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1069**

Location: Bldg. CB Floor El. 070 Room, Area N/A

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

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

None



Evaluated by: Jason Halsey Date: 10/8/2012



Matt Keeney 10/8/2012

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1069**

Location: Bldg. CB Floor El. 070 Room, Area N/A

**SWEL Components: SWEL1-069**

**Photographs**



**Note:**

**Note:**

Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1070**

Location: Bldg. CB Floor El. 115 Room, Area<sup>1</sup> 1200

**SWEL Components: SWEL1-070, SWEL1-065, SWEL1-071**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1070**

Location: Bldg. CB Floor El. 115 Room, Area 1200

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

Overhead hanging light fixture above HVC-PDI23A has open S hook on fixture north end chain support. South end fixture support chain S hook is closed. NOTE: there are no safety related soft targets in the area of this fixture, and therefore not a seismic issue if the chain were to fail.

North end of room, light fixture north of HVC-FN1A, east end fixture support chain S hook is open. West side support chain S hook closed. NOTE: intervening 4x4TS structure will not allow contact of fixture with nearby safety related components, if the chain were to fail. Therefore not a seismic issue.

South end of room, light fixture north of SCI-XRC10B1, light fixture north side support chain S hook is not properly attached to the fixture. South support chain S hook is closed. Note: There are no safety related soft targets in the area, and therefore not a seismic issue.

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

Sheet 3 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1070**

Location: Bldg. CB Floor El. 115 Room, Area 1200

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

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

See Q 4.

Refer to LB-11

CR-RBSD-2012-07090 has been written to address the condition. WR-290719, 290720,290721 and 290723 have been initiated to correct the condition.



Evaluated by: Jason Halsey Date: 10-2-2012



Matt Keeney 10-2-2012

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1070**

Location: Bldg. CB Floor El. 115 Room, Area 1200

**SWEL Components: SWEL1-070**

**Photographs**



**Note:** Open S hook on hanging overhead lighting

**Note:**

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1072**

Location: Bldg. CB Floor El. 116 Room, Area<sup>1</sup> 1200

**SWEL Components: SWEL1-072, SWEL1-074**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1072**

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Location: Bldg. CB Floor El. 116 Room, Area 1200

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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

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

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

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Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1072**

Location: Bldg. CB Floor El. 116 Room, Area 1200

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

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

None



Evaluated by: Jason Halsey Date: 10/2/2012



Matt Keeney 10/2/2012

Sheet 1 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1075**

Location: Bldg. CB Floor El. 098 Room, Area<sup>1</sup> 1124

**SWEL Components: SWEL1-075, SWEL1-076, SWEL1-077, SWEL1-078, SWEL1-104, SWEL1-109**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1075**

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Location: Bldg. CB Floor El. 098 Room, Area 1124

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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  
Strut to pipe small interference ISAS-V836 Valve and Strut area HVK-MOV20C

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

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

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

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Sheet 3 of 4

Status: Y  N  U

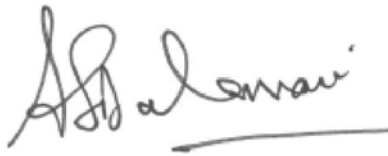
**Area Walk-By Checklist (AWC) AWC-1075**

Location: Bldg. CB Floor El. 098 Room, Area 1124

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)

For strut interference Ref CR-RBS-2012-06241.  
Ref. LB-02



Evaluated by: Amar Dalawari Date: 10/1/2012



Matt Keeney 10/1/2012

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1075**

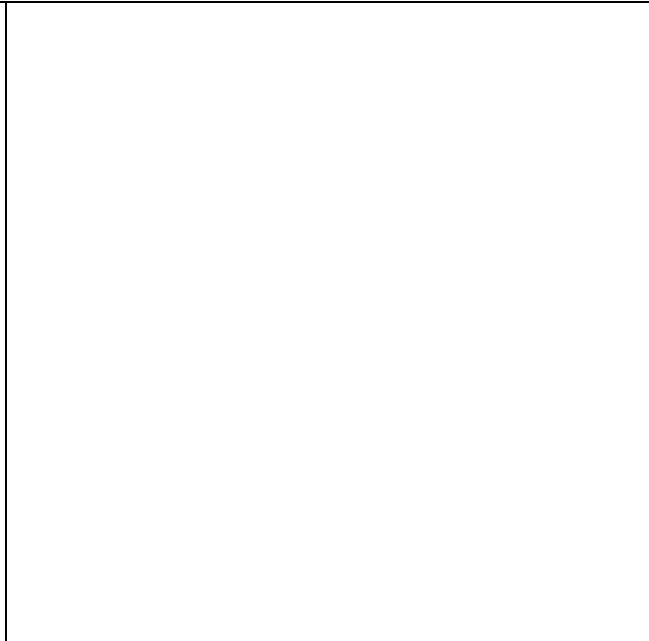
Location: Bldg. CB Floor El. 098 Room, Area 1124

**SWEL Components: SWEL1-075**

**Photographs**



**Note:**



**Note:**

Sheet 1 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1082**

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Location: Bldg. DG Floor El. 126 Room, Area<sup>1</sup> 1305

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**SWEL Components: SWEL1-082, SWEL1-079, SWEL1-080**

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**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1082**

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Location: Bldg. DG Floor El. 126 Room, Area 1305

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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  
*No piping in mezzanine area.*

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

---

Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1082**

Location: Bldg. DG Floor El. 126 Room, Area 1305

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

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

None



Evaluated by: J. Dunkelberg

Date: 10-2-12



D. Bassi

10-2-12



Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1084**

Location: Bldg. RB Floor El. 162 Room, Area<sup>1</sup> 7408

**SWEL Components: SWEL1-084, SWEL1-105**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1084**

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Location: Bldg. RB Floor El. 162 Room, Area 7408

---

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

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

---

Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1084**

Location: Bldg. RB Floor El. 162 Room, Area 7408

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

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

None



Evaluated by: Matt Keeney Date: 10-3-2012



John Dunkelberg 10-3-2012

Sheet 1 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1085**

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Location: Bldg. AB Floor El. 114 Room, Area<sup>1</sup> 6205

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**SWEL Components: SWEL1-085**

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**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1085**

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Location: Bldg. AB Floor El. 114 Room, Area 6205

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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  
Scaffold material stored in area has potential interaction with RTD connected to conduit 1CX8188C1 on north wall of area

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

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

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A  
See Q4 above

---

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1085**

Location: Bldg. AB Floor El. 114 Room, Area 6205

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  
See Q4 above

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

General area: UC6 room, scaffold storage rack in area, west side, equipment laydown in southwest side.  
Recommendation: remove scaffolding material suspended from rack, 2 places.  
(Revised 14:30 10/8/12) Maintenance replied to request, all suspended materials remove. No further action required



Evaluated by: J. Dunkelberg Date: 10/8/12



D. Bassi 10/8/12

Sheet 4 of 5

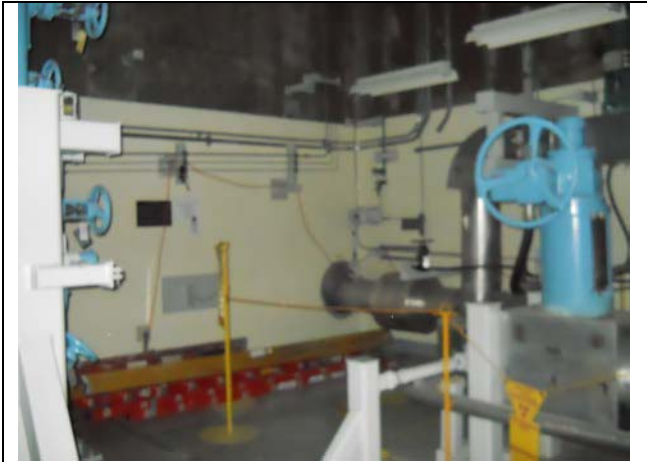
Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1085**

Location: Bldg. AB Floor El. 114 Room, Area 6205

**SWEL Components: SWEL1-085**

**Photographs**



**Note:**



**Note:**

Sheet 5 of 5

Status: Y  N  U

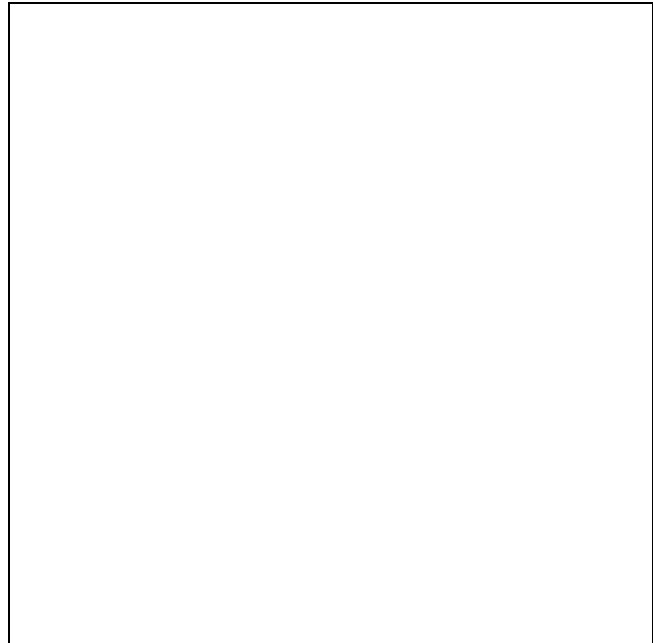
**Area Walk-By Checklist (AWC) AWC-1085**

Location: Bldg. AB Floor El. 114 Room, Area 6205

**SWEL Components: SWEL1-085**



**Note:** Scaffold storage close to conduit



**Note:**



Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1086**

Location: Bldg. AB Floor El. 141 Room, Area<sup>1</sup> 6301

**SWEL Components: SWEL1-086**

**Instructions for Completing Checklist**

This checklist may 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

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<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1086**

---

Location: Bldg. AB Floor El. 141 Room, Area 6301

---

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

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

---

Sheet 3 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1086**

Location: Bldg. AB Floor El. 141 Room, Area 6301

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

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

None



Evaluated by: M. Keeney Date: 10/8/12



J. Halsey 10/8/12

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1086**

Location: Bldg. AB Floor El. 141 Room, Area 6301

**SWEL Components: SWEL1-086**

**Photographs**



**Note:**

**Note:**

Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1087**

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Location: Bldg. AB Floor El. 141 Room, Area<sup>1</sup> 6301

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**SWEL Components: SWEL1-087**

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**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1087**

---

Location: Bldg. AB Floor El. 141 Room, Area 6301

---

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

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

---

Sheet 3 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1087**

Location: Bldg. AB Floor El. 141 Room, Area 6301

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

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

None



Evaluated by: Matt Keeney Date: 10/8/2012



Brandon Nissing 10/8/2012

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1087**

Location: Bldg. AB Floor El. 141 Room, Area 6301

**SWEL Components: SWEL1-087**

**Photographs**



**Note:**

**Note:**



Sheet 1 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1088**

Location: Bldg. AB Floor El. 114 Room, Area<sup>1</sup> 6207

**SWEL Components: SWEL1-088**

**Instructions for Completing Checklist**

This checklist may 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

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<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1088**

---

Location: Bldg. AB Floor El. 114 Room, Area 6207

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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

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

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

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Sheet 3 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1088**

Location: Bldg. AB Floor El. 114 Room, Area 6207

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)

AB Elev 114', west side of crescent area.

Coil of cable hanging from overhead conduit. Coil is held together by tie wrap, attached top conduit with tie wrap, conduit running N-S, approx 15' in overhead, near panel DER-PNL1. Judged not to be a seismic issue



Evaluated by: D. Bassi Date: 10/9/12



J. Dunkelberg 10/9/12

Sheet 4 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1088**

Location: Bldg. AB Floor El. 114 Room, Area 6207

**SWEL Components: SWEL1-088**

**Photographs**



**Note:**



**Note:**

Sheet 5 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1088**

Location: Bldg. AB Floor El. 114 Room, Area 6207

**SWEL Components: SWEL1-088**



**Note:**



**Note:** *Scaffold above equipment.*

Sheet 1 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1089**

Location: Bldg. FB Floor El. 113 Room, Area<sup>1</sup> 5205

**SWEL Components: SWEL1-089**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1089**

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Location: Bldg. FB Floor El. 113 Room, Area 5205

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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

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

---

Sheet 3 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1089**

Location: Bldg. FB Floor El. 113 Room, Area 5205

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   
See comments

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

Designated equipment ladder storage areas nearby, OK. Not an issue.  
Area: FB 113' crecent area north of RB.



Evaluated by: John Dunkelberg

Date: 10/9/2012



David Bassi

10/9/2012



Sheet 4 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1089**

Location: Bldg. FB Floor El. 113 Room, Area 5205

**SWEL Components: SWEL1-089**

**Photographs**



**Note:**

**Note:**

Sheet 5 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1089**

Location: Bldg. FB Floor El. 113 Room, Area 5205

**SWEL Components: SWEL1-089**



**Note:**

**Note:**

Sheet 1 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1090**

Location: Bldg. RB Floor El. 114 Room, Area<sup>1</sup> 7200

**SWEL Components: SWEL1-090, SWEL1-009, SWEL1-011, SWEL1-013**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1090**

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Location: Bldg. RB Floor El. 114 Room, Area 7200

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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

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

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

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Sheet 3 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1090**

Location: Bldg. RB Floor El. 114 Room, Area 7200

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

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

None



Evaluated by: Matt Keeney Date: 10-9-2012



Jason Halsey 10-9-2012

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1090**

Location: Bldg. RB Floor El. 114 Room, Area 7200

**SWEL Components: SWEL1-090**

**Photographs**



**Note:**

**Note:**

Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1092**

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Location: Bldg. RB Floor El. 114 Room, Area<sup>1</sup> 7200, 7203

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**SWEL Components: SWEL1-092, SWEL1-006, SWEL1-008, SWEL1-094, SWEL1-096**

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**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1092**

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Location: Bldg. RB Floor El. 114 Room, Area 7200, 7203

---

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

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

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

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Sheet 3 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1092**

Location: Bldg. RB Floor El. 114 Room, Area 7200, 7203

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

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

None



Evaluated by: Matt Keeney Date: 10/9/2012



Jason Halsey 10/9/2012

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1092**

Location: Bldg. RB Floor El. 114 Room, Area 7200, 7203

**SWEL Components: SWEL1-092**

**Photographs**



**Note:**

**Note:**

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1106**

Location: Bldg. SCT Floor El. 118 Room, Area<sup>1</sup> 0104

**SWEL Components: SWEL1-106, SWEL1-047, SWEL1-108**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1106**

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Location: Bldg. SCT Floor El. 118 Room, Area 0104

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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

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

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

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Sheet 3 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1106**

Location: Bldg. SCT Floor El. 118 Room, Area 0104

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

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

None



Evaluated by: John Dunkelberg Date: 10-2-2012



Jason Halsey 10-2-2012

Sheet 1 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1107**

Location: Bldg. GT Floor El. 067 Room, Area<sup>1</sup> 0000

**SWEL Components: SWEL1-107, SWEL1-099, SWEL1-111**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1107**

---

Location: Bldg. GT Floor El. 067 Room, Area 0000

---

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

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

---

Sheet 3 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1107**

Location: Bldg. GT Floor El. 067 Room, Area 0000

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

See Comments

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


Carbon steel surfaces of pipe & supports show signs of corrosion (more than mild surface). Not a seismic issue. Recommend touchup/recoating surfaces with paint. See pictures below.

Housekeeping issue.



Evaluated by: John Dunkelberg

Date: 10-5-2012



Jose Cardona

10-5-2012



Sheet 4 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1107**

Location: Bldg. GT Floor El. 067 Room, Area 0000

**SWEL Components: SWEL1-107**

**Photographs**



**Note:**



**Note:**

Sheet 5 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1107**

Location: Bldg. GT Floor El. 067 Room, Area 0000

**SWEL Components: SWEL1-107**



**Note:**



**Note:**

Sheet 1 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1112**

Location: Bldg. AB Floor El. 141 Room, Area<sup>1</sup> 6302

**SWEL Components: SWEL1-112, SWEL1-117**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1112**

---

Location: Bldg. AB Floor El. 141 Room, Area 6302

---

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

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

---

Sheet 3 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1112**

Location: Bldg. AB Floor El. 141 Room, Area 6302

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)

AB 141' East side, east of LSV compressor skid A  
HSC-PWRS1B: west side of unit, back panel is dented at bottom approx 1". Not Seismic Issue  
HTS-PNL2N: In overhead tray support horizontal brace has portion of #9 wire hanging from it approx 10-12' above floor, North side of PNL2N. Not Seismic Issue



Evaluated by: J. Dunkelberg

Date: 10/9/12



D. Bassi

10/9/12

Sheet 4 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1112**

Location: Bldg. AB Floor El. 141 Room, Area 6302

**SWEL Components: SWEL1-112**

**Photographs**



**Note:**



**Note:**

Sheet 5 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1112**

Location: Bldg. AB Floor El. 141 Room, Area 6302

**SWEL Components: SWEL1-112**



**Note:**

**Note:**

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1113**

Location: Bldg. RB Floor El. 114 Room, Area<sup>1</sup> 7200

**SWEL Components: SWEL1-113**

**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.



Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1113**

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Location: Bldg. RB Floor El. 114 Room, Area 7200

---

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

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

---

Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1113**

Location: Bldg. RB Floor El. 114 Room, Area 7200

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

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

None



Evaluated by: Matt Keeney Date: 10-3-2012



John Dunkelberg 10-3-2012

Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1114**

Location: Bldg. RB Floor El. 095 Room, Area<sup>1</sup> 7100

**SWEL Components: SWEL1-114**

**Instructions for Completing Checklist**

This checklist may 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

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<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1114**

---

Location: Bldg. RB Floor El. 095 Room, Area 7100

---

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

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

---

Sheet 3 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1114**

Location: Bldg. RB Floor El. 095 Room, Area 7100

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

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

None



Evaluated by: Jason Halsey Date: 10-10-2012



David Bassi 10-10-2012

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1114**

Location: Bldg. RB Floor El. 095 Room, Area 7100

**SWEL Components: SWEL1-114**

**Photographs**



**Note:**



**Note:**

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1115**

Location: Bldg. RB Floor El. 095 Room, Area<sup>1</sup> 7100

**SWEL Components: SWEL1-115**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1115**

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Location: Bldg. RB Floor El. 095 Room, Area 7100

---

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

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

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

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Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1115**

Location: Bldg. RB Floor El. 095 Room, Area 7100

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

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

None



Evaluated by: Matt Keeney Date: 10-3-2012



John Dunkelberg 10-3-2012

Sheet 1 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1116**

Location: Bldg. AB Floor El. 114 Room, Area<sup>1</sup> 6306

**SWEL Components: SWEL1-116, SWEL1-119**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1116**

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Location: Bldg. AB Floor El. 114 Room, Area 6306

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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

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

---

Sheet 3 of 5

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-116**

Location: Bldg. AB Floor El. 114 Room, Area 6306

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)

AB Crescent area, west side, 141' Elev



Evaluated by: D. Bassi Date: 10/8/12



J. Dunkelberg 10/8/12

Sheet 4 of 5

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1116**

Location: Bldg. AB Floor El. 114 Room, Area 6306

**SWEL Components: SWEL1-116**

**Photographs**



**Note:**



**Note:**

Sheet 5 of 5

Status: Y  N  U

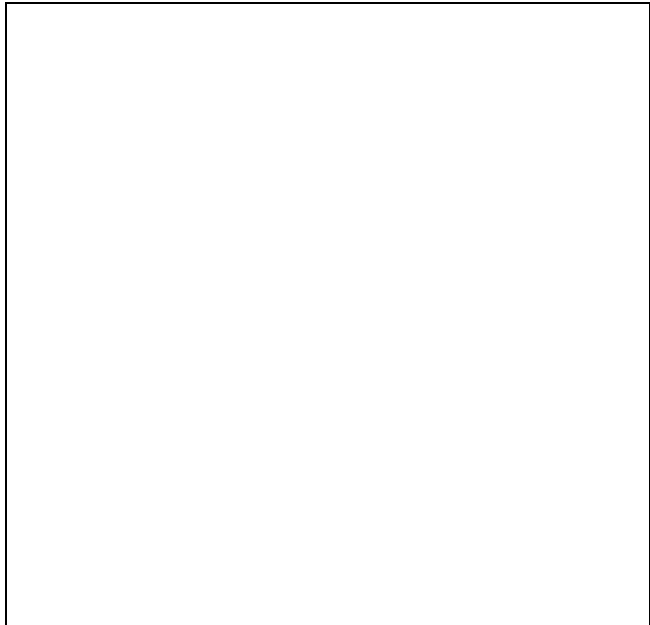
**Area Walk-By Checklist (AWC) AWC-1116**

Location: Bldg. AB Floor El. 114 Room, Area 6306

**SWEL Components: SWEL1-116**



**Note:**



**Note:**

Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1118**

Location: Bldg. RB Floor El. 186 Room, Area<sup>1</sup> 7500

**SWEL Components: SWEL1-118**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1118**

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Location: Bldg. RB Floor El. 186 Room, Area 7500

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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

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

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

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Sheet 3 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1118**

Location: Bldg. RB Floor El. 186 Room, Area 7500

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)

Refueling floor of the RB Elev. 186.



Evaluated by: J. Halsey Date: 10/10/12



D. Bassi 10/10/12

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1118**

Location: Bldg. RB Floor El. 186 Room, Area 7500

**SWEL Components: SWEL1-118**

**Photographs**



**Note:**

**Note:**

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1120**

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Location: Bldg. RB Floor El. 141 Room, Area<sup>1</sup> 9408

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**SWEL Components: SWEL1-120**

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**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-1120**

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Location: Bldg. RB Floor El. 141 Room, Area 9408

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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

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

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

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Sheet 3 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-1120**

Location: Bldg. RB Floor El. 141 Room, Area 9408

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

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

None



Evaluated by: Matt Keeney Date: 10-3-2012



John Dunkelberg 10-3-2012

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2001**

Location: Bldg. AB Floor El. 070 Room, Area<sup>1</sup> 6008

**SWEL Components: SWEL2-001, SWEL2-004**

**Instructions for Completing Checklist**

This checklist may 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

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2001**

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Location: Bldg. AB Floor El. 070 Room, Area 6008

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4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A  
*Lighting has safety covers/cages*

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

---

Sheet 3 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2001**

Location: Bldg. AB Floor El. 070 Room, Area 6008

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

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

Area: CCP Aux bldg, West side Elev. 70 ft. to 100 ft  
Two valves located on a raised platform accessible by permanent ladder



Evaluated by: D. Bassi Date: 10/8/12



J. Dunkelberg 10/8/12



Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2003**

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Location: Bldg. FB Floor El. 070 Room, Area<sup>1</sup> 5013

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**SWEL Components: SWEL2-003**

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**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2003**

---

Location: Bldg. FB Floor El. 070 Room, Area 5013

---

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

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

---

Sheet 3 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-2003**

Location: Bldg. FB Floor El. 070 Room, Area 5013

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

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

None



Evaluated by: David Bassi Date: 10/9/2012



John Dunkelberg 10/9/2012

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-2003**

Location: Bldg. FB Floor El. 070 Room, Area 5013

**SWEL Components: SWEL2-003**

**Photographs**



**Note:**

**Note:**

Sheet 1 of 6

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2005**

Location: Bldg. AB Floor El. 114 Room, Area<sup>1</sup> 6203

**SWEL Components: SWEL2-005**

**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 6

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2005**

---

Location: Bldg. AB Floor El. 114 Room, Area 6203

---

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A  
*See Comments*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

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

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

---

Sheet 3 of 6

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2005**

Location: Bldg. AB Floor El. 114 Room, Area 6203

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  
See Comments

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

NHS-MCC2C & NHS-MCC2D: Cabinets are in close proximity to each other (approx 1") but not connected (bolted together). MCC2C has 3 sections, MCC2D has 5 sections. Both welded to sills, potential seismic interaction is side to side.

Observation: At PW123-04, hoist in the overhead with chain that extends from 123' to 114' floor. Rigid conduits nearby touching conduit. Not a seismic concern due to length of chain

See LB-17



Evaluated by: D. Bassi

Date: 10/12/12



J. Dunkelberg

10/12/12

Sheet 4 of 6

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-2005**

Location: Bldg. AB Floor El. 114 Room, Area 6203

**SWEL Components: SWEL2-005**

**Photographs**



**Note:**



**Note:**



Sheet 5 of 6

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-2005**

Location: Bldg. AB Floor El. 114 Room, Area 6203

**SWEL Components: SWEL2-005**



**Note:**



**Note:**

Sheet 6 of 6

Status: Y  N  U

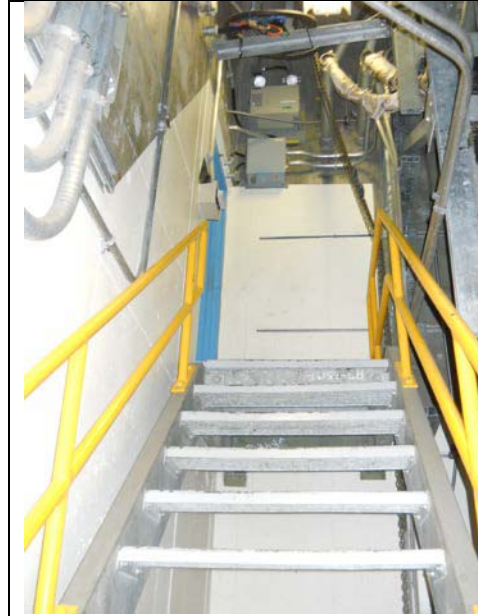
**Area Walk-By Checklist (AWC) AWC-2005**

Location: Bldg. AB Floor El. 114 Room, Area 6203

**SWEL Components: SWEL2-005**



**Note:**



**Note:**

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2006**

Location: Bldg. CB Floor El. 098 Room, Area<sup>1</sup> 1114

**SWEL Components: SWEL2-006**

**Instructions for Completing Checklist**

This checklist may 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)?  
No missing HVAC, cable tray, or raceway hardware. Y N U N/A

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2006**

---

Location: Bldg. CB Floor El. 098 Room, Area 1114

---

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

The "S" hooks supporting the lights behind EHS-MCC8B and ENB-SWG01B are open and need to be closed. However, the location of the fixtures cannot create a seismic interaction with any safety related components.

One light behind EHS-MCC8B is installed in a tilted or out of level position. The light is secure (not a seismic issue)

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

*Conduits approximately 1" diameter penetrating fire wall appears that the conduit does not have fire stop or seal. Located on CL "CA" about 10' north of door CB098-09, approximately 11' above finished floor*

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
-

Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-2006**

Location: Bldg. CB Floor El. 098 Room, Area 1114

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

See comments below.

**Comments**

1. Seal is off a 4" conduit above EHS-MCC14B (Conduit 1CK002DG)-not seismic issue
2. Seal loose on 1CK003BM above EHS-MCC14B --not seismic issue
3. Missing seal on 1CC047B4 above ENB-INV01B --not seismic issue
4. Fastener in not tight on ENB-INV01B1, north face bottom right fastener
5. 3" conduit "LB" in a vertical orientation approximately 10' off floor between door CB098-30 and ENB-SWG01B is missing a washer on 1 bolt (table label 2J) --not seismic issue
6. Vent grills appear to be missing bolts (6 to 12 each). The vent is located above ENB-INV01B1
7. Loose thumb screw on ENS-SWG1B cubical 1 lower right
8. Inconsistent style of bolt head used on back of EHS-MCC14B - -not seismic issue
9. Inconsistent use of washer on the back of ENB-INV01B1 - -not seismic issue
10. Loose LB cover bolt loose (1 of approx. 4) located above EHS-MCC14B, north most cubicle viewed from front of MCC (conduit 1CK047B4) - -not seismic issue
11. Grounding cable behind ENB-INV01B1 cable hold downs are loose, approximately 4'. -not seismic issue

Also see Q4, Q6

Ref. CR-RBS-2012-06957 and LB-16



Evaluated by: M. Keeney

Date: 10/11/2012



J. Dunkelberg

10/11/2012

Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2008**

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Location: Bldg. FB Floor El. 070 Room, Area<sup>1</sup> 5018

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**SWEL Components: SWEL2-008**

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**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2008**

---

Location: Bldg. FB Floor El. 070 Room, Area 5018

---

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

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

---

Sheet 3 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2008**

Location: Bldg. FB Floor El. 070 Room, Area 5018

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

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

Area: FB 85' valve room (north room)



Evaluated by: John Dunkelberg Date: 10/9/2012



David Bassi 10/9/2012



Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-2008**

Location: Bldg. FB Floor El. 070 Room, Area 5018

**SWEL Components: SWEL2-008**

**Photographs**



**Note:**

**Note:**

Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2009**

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Location: Bldg. FB Floor El. 070 Room, Area<sup>1</sup> 5021

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**SWEL Components: SWEL2-009**

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**Instructions for Completing Checklist**

This checklist may 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

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<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2009**

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Location: Bldg. FB Floor El. 070 Room, Area 5021

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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

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

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

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Sheet 3 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-2009**

Location: Bldg. FB Floor El. 070 Room, Area 5021

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

See comments

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

Hand lever of valve SFC-V356 (Temporary tag by GSU) is within  $\frac{3}{4}$ " of adjacent 4" pipe – Potential interaction

Ref. LB-13 & CR-RBS-2012-06687



Evaluated by: J. Dunkelberg

Date: 10/9/12



D. Bassi

10/9/12

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-2009**

Location: Bldg. FB Floor El. 070 Room, Area 5021

**SWEL Components: SWEL2-009**

**Photographs**



**Note:**

**Note:**

Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2012**

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Location: Bldg. FB Floor El. 070 Room, Area<sup>1</sup> 5000

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**SWEL Components: SWEL2-012**

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**Instructions for Completing Checklist**

This checklist may 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

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<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2012**

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Location: Bldg. FB Floor El. 070 Room, Area 5000

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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

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

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

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Sheet 3 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2012**

Location: Bldg. FB Floor El. 070 Room, Area 5000

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)

FB 70' CRD pump room area



Evaluated by: David Bassi Date: 10/9/2012



John Dunkelberg 10/9/2012



Sheet 4 of 4

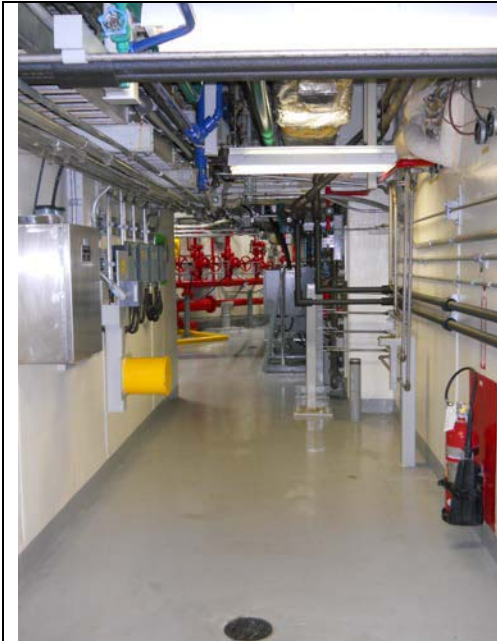
Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-2012**

Location: Bldg. FB Floor El. 070 Room, Area 5000

**SWEL Components: SWEL2-012**

**Photographs**



**Note:**

**Note:**

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2013**

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Location: Bldg. FB Floor El. 095 Room, Area<sup>1</sup> 5100

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**SWEL Components: SWEL2-013**

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**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2013**

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Location: Bldg. FB Floor El. 095 Room, Area 5100

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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

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

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

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Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-2013**

Location: Bldg. FB Floor El. 095 Room, Area 5100

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


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

None



Evaluated by: John Dunkelberg

Date: 10-5-2012



Jose Cardona

10-5-2012

Sheet 1 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2014**

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Location: Bldg. FB Floor El. 070 Room, Area<sup>1</sup> 5011

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**SWEL Components: SWEL2-014, SWEL2-015**

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**Instructions for Completing Checklist**

This checklist may 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

---

<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Sheet 2 of 3

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2014**

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Location: Bldg. FB Floor El. 070 Room, Area 5011

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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

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

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

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Sheet 3 of 3

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-2014**

Location: Bldg. FB Floor El. 070 Room, Area 5011

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


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

None



Evaluated by: John Dunkelberg

Date: 10-5-2012



Jose Cardona

10-5-2012

Sheet 1 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2016**

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Location: Bldg. AB Floor El. 070 Room, Area<sup>1</sup> 6001

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**SWEL Components: SWEL2-016, SWEL1-025, SWEL2-017**

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**Instructions for Completing Checklist**

This checklist may 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

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<sup>1</sup> If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.



Sheet 2 of 4

Status: Y N U

**Area Walk-By Checklist (AWC) AWC-2016**

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Location: Bldg. AB Floor El. 070 Room, Area 6001

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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

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

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

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Sheet 3 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-2016**

Location: Bldg. AB Floor El. 070 Room, Area 6001

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

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

None



Evaluated by: Matt Keeney Date: 10/8/2012



Brandon Nissing 10/8/2012

Sheet 4 of 4

Status: Y  N  U

**Area Walk-By Checklist (AWC) AWC-2016**

Location: Bldg. AB Floor El. 070 Room, Area 6001

**SWEL Components: SWEL2-016**

**Photographs**



**Note:**

**Note:**

# **Attachment E**

## **Potentially Adverse Seismic Conditions**

LB #	SWC/AWC #	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	STATUS
LB-01	SWEL1-078	<p>Reduced Nut Engagement for Tank Base Bolts</p> <p>Condition: Nuts on two (2) out of eight (8) 5/8" diameter bolts for anchorage of HVK-TK1A "Control Building Chilled Water Surge Tank 1A" base to the concrete pedestal are not fully engaged. Review indicates at least 90% of the threads on both the nuts are engaged with the anchor bolts.</p>	<p>Condition does not meet the Licensing Basis.</p> <p>Need full nut engagement on anchor bolt.</p>	<p>CR-RBS-2012-06242 determined that the existing condition is acceptable.</p> <p>CR-RBS-2012-06230 CA-00011 has been initiated to identify the best way to electronically link the information contained in calculation G13.18.10.5*003 and CR-RBS-2012-06242 to HVK-TK1A</p> <p>OPERABILITY EVALUATION SUMMARY</p> <p>The operability evaluation considered a worst case loading of 5,000 lbs/bolt. Nut shear capacity is conservatively calculated to be 5,988 lbs, and therefore the structural integrity of the tank is maintained during a seismic event.</p>	CR-RBS-2012-06242 is closed.
LB-02	AWC-1075	<p>Reduced Clearance between Pipe / Strut</p> <p>The clearance between the strut installed 10" above valve assembly [HVK-MOV20C] on line [HVK-006-002-003] and the horizontal SAS pipeline SAS-750-563 (approximate elevation 109 ft) near valve SAS-V836 is 1/2". The required minimum distance between the safety related component and safety related small bore piping of 1" is not met.</p>	<p>Condition does not meet the Licensing Basis.</p> <p>Reduced clearance between pipe and pipe support does not meet piping specification requirements for clearance requirements between items.</p>	<p>CR-RBS-2012-06241 determined that the existing condition was previously evaluated in design calculation NP-Z-781-7204 and found to be acceptable.</p> <p>OPERABILITY EVALUATION SUMMARY</p> <p>Review of stress report for 6" line &amp; support for 3/4" line, and deflection of 3/4" line indicate that total relative deflection between the components will be less than 0.2 inches.</p> <p>Therefore the distance of 0.5 inches between these 2 components is judged to be acceptable.</p>	CR-RBS-2012-06241 is closed.

LB #	SWC/AWC #	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	STATUS
LB-03	SWEL1-063	<p>Panel H13-P693 anchorage drawing not available for verification            The anchorage drawing and/or calculation showing the analysis of the mounting pattern at the anchorage location could not be located.</p>	<p>Condition does not meet the Licensing Basis. Panel anchorage drawings are not available to verify number of fasteners required for the attachment of the panel to the support structure.</p>	<p>CR-RBS-2012-06238 determined that drawings 0242.414-000-031, 0242.414-000-032 and 0242.414-000-033 are available and show the panel fasteners, which match the observed condition in the field. Therefore there is no nonconformance.  <b>OPERABILITY EVALUATION SUMMARY</b>            Based on visual walkdown by RE the seismic qualification or the structural integrity of the panel is not in question.</p>	<p>CR-RBS-2012-06238 is closed.</p>
LB-04	AWC-1063	<p>Loose items / Main Control Room:            I&amp;C work tables for work in progress            Stick files for drawings            Frisker stand next to cabinet            See photos in AWC-1063.</p>	<p>Condition meets the Licensing Basis. Evaluation concludes that the identified loose items in the main control room area are in conformance with licensing basis documents.</p>	<p>N/A</p>	<p>Closed</p>
LB-05	SWEL1-047	<p>- EHS-MCC16A, Bucket 5B, appears to be a missing screw at the bottom left hand corner of the transformer.            - EHS-MCC16A, Bucket 2A, transformer has three screws installed. The top right screw location was not drilled (no hole) and no screw installed. [Pan head not drilled].            - EHS-MCC16A, Bucket 4D, door top hinge (mounted on the left side) is off the swivel pin (pin is completely outside of the hinge tube)</p>	<p>Condition does not meet the Licensing Basis. Missing fasteners are required to be installed in the panel and doors need to be secured in place per design.</p>	<p>CR-RBS-2012-06311. Suggest installing missing fasteners and reworking hinge.            WR 286202 initiated to correct condition.  <b>OPERABILITY EVALUATION SUMMARY</b>            Evaluation of these conditions have determined that the seismic qualification of EHS-MCC16A is unaffected by the unengaged hinge at one end of the door leafs and the seismic qualification of control transformers is also unaffected by the installation of three (3) screws instead of four (4) screws used during seismic testing effort. Also EN-OP-104, Rev 6 Attach. 9.1 for degraded or nonconforming conditions states that as</p>	<p>CR-RBS-2012-06311 closed to WR 0028620</p>

LB #	SWC/AWC #	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	STATUS
LB-06	SWEL1-062	<p>ENS-SWG1A, door lower hinge pin raised at ACB08</p> <p>Door upper hinge pin raised at ACB04</p> <p>Door middle hinge pin raised at ACB06</p>	<p>Condition does not meet the Licensing Basis. Evaluation concludes the pins raised out of the hinge by approx. ¼" continue to provide adequate anchorage of the door panels and will remain in place during a seismic event.</p>	<p>long as no more than two missing or loose fasteners AND no FME concern exists then the equipment would be considered Operable. In this case only one screw is missing from bucket 5B and one screw missing from bucket 2A of four screws. EHS-MCC16A will perform its design function.</p>	
				<p>CR-RBS-2012-06312 initiated to track hinge pins rework. WR 286203 initiated to correct condition.</p> <p><b>OPERABILITY EVALUATION SUMMARY</b>                      As stated in the CR initiation the 1/4" protrusion of the hinge pin does not adversely impact the ability of the door to remain in place during all operating conditions including seismic events as there is adequate connection to fully support the weight of the door, and as the load is distributed over all door connection points. As a result, this condition has no adverse impact on the proper operation of the doors or of the panel.</p>	<p>CR-RBS-2012-06312 closed to WR 00286203</p>

LB #	SWC/AWC #	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	STATUS
LB-07	SWEL1-056	ENB-BAT01A, battery rack angle attachment to the imbedded sill is missing one weld of two (on either side of angle) at two locations. The first location is at cell 38 and the second location is at cell 42. [These are the lower racks (shorter). They are approximately 60 such welds on the lower rack.]	Condition does meet the Licensing Basis. Evaluation concludes the condition is acceptable, missing welds are acceptable per E&DCR C-20908A.	N/A	
LB-08	SWEL1-057	ENB-CHGR1A, interior mounting panel is missing two attachment screws. The missing screws are on the lower edge at the center portion of the plate. [Estimated number of screws are 4 on top 4 on bottom (8 total). Panel is approx. 3' x 2' with ~ 30 pounds of material mounted on the plate. The locations missing screws were intended locations to install screws. (Holes were threaded) ]	Condition does not meet the Licensing Basis. Evaluation concludes the missing fasteners are not acceptable.	CR-RBS-2012-06326 initiated. WR 00286244 initiated to correct the condition. OPERABILITY EVALUATION SUMMARY The attached evaluation has determined that the missing screws would not result in unacceptable vibration of the electrical boards mounted in the vicinity of the missing screws and that the boards will be fully capable of performing their safety function. The screws currently installed in the panel are structurally adequate to resist all loads. Also EN-OP-104, Rev 6 Attach. 9.1 for degraded or nonconforming conditions states that as long as no more than two missing or loose fasteners AND no FME concern exists then the equipment would be considered Operable. In this case only two screws are missing from ENB-CHGR1A interior mounting panel. Thus, the missing screws will not adversely impact ENB-CHGR1A charger operation or the ability of the charger to perform its design function.	CR-RBS-2012-06326 closed to WR 00286244.



LB #	SWC/AWC #	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	STATUS
LB-09	SWEL1-045	<p>EHS-MCC14A, STANDBY SWGR RM 1A 480V MCC14A</p> <p>Need a work request to adjust latch on cubicle 1C so the door can open with the safety latch.</p> <p>Front door at breaker 2AT the top hinge was not attached completely (pin out of hinge significantly)</p> <p>Door is approximately 12" x 12" with 2 hinges and two latches.</p> <p>Front door at breaker 2AB, the top hinge was not attached completely (pin out of hinge significantly)</p> <p>Door is approximately 12" x 12 with 2 hinges and two latches.</p> <p>Mounting for control power transformers are missing one mounting screw of 4. Bottom Right Screw Missing - Cubicle 2C, 4A, 4C, 4D, 4E, 4F; Bottom Left Screw Missing - Cubicle 4B</p>	<p>Condition does not meet the Licensing Basis. Evaluation concludes the missing fasteners and hinge conditions are not acceptable.</p>	<p>CR-RBS-2012-06323 initiated. WR 00286229 initiated to correct condition.</p> <p>OPERABILITY EVALUATION SUMMARY</p> <p>The Operability evaluation has concluded the missing screws and the substantial unseating of the door hinge pins do not affect the seismic qualification of the panel and that the identified condition does not adversely impact the ability of the transformers or the panel as an assembly to perform their design and licensing basis functions.</p>	<p>CR-RBS-2012-06323 closed to WR 00286229.</p>
LB-10	SWEL1-049	<p>EHS-MCC2L, Auxiliary Building MCC2L</p> <p>Cubicle 1C – transformer has three screws installed rather than four. Upper right screw missing.</p> <p>Cubicle 2B – Missing 1 screw on back plate of breaker, upper right corner, 1 of 4 screw locations.</p>	<p>Condition does not meet the Licensing Basis. Missing fasteners are required to be installed in the panel per design.</p> <p>Condition does not meet the Licensing Basis. Missing fasteners are required to be installed in the panel per design.</p>	<p>CR-RBS-2012-06483 initiated. WR 00287298 initiated to correct condition.</p> <p>OPERABILITY EVALUATION SUMMARY</p> <p>The operability evaluation has concluded that the missing power transformer screw is identical to the same condition evaluated for EHS-MCC14A, and that evaluation was attached to the CR. The evaluation also concluded that the missing screw on the back plate of a breaker for EHS-MCC2L does not adversely affect operability of the MCC.</p>	<p>CR-RBS-2012-06483 closed to WR 00287298.</p>


LB #	SWC/AWC #	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	STATUS
LB-11	AWC-1070	S hook on lighting fixtures. Florescent lighting fixtures in the plant are suspended by chains. The chain is attached to the fixtures with "s" hooks, which might become unattached via the open "s".	Condition does not meet the Licensing Basis. Evaluation concludes that open S hooks do not meet the licensing basis.	CR-RBSD-2012-07090 has been written to address the condition. WR-290719, 290720, 290721 and 290723 have been initiated to correct the condition.  OPERABILITY EVALUATION SUMMARY This CR describes a condition of an SSC that is not within the scope of the Operability Determination Process.	CR-RBSD-2012-07090 initiated. WR-290719, 290720, 290721 and 290723 initiated to correct
LB-12	SWELL-119	HVR-AOV165 is missing 1 bolt of the 8 mounting the actuator to the mounting bracket.	Condition does not meet the Licensing Basis. Evaluation concludes the condition of one missing actuator mounting bolt does not meet the licensing basis.	CR-RBS-2012-06352 initiated. The missing bolt has been installed under WO-329161.  OPERABILITY EVALUATION SUMMARY Review of seismic qualification 4228.241-092-016C (pdf page 133) for this valve shows that the actuator (operator) to bracket bolts (dwg. 0228.241-092-014 items 32 & 33) have an interaction ratio of 0.47, with all 8 bolts installed. This indicated that the bolted joint is robust, and has approximately 50% margin in the bolts. Based on this robust condition, it is reasonable to conclude that the connection will perform its intended function with only 7 of the 8 bolts installed during all design conditions."	CR-RBS-2012-06352 is closed. The missing bolt has been installed under WO-329161.

LB #	SWC/AWC #	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	STATUS
LB-13	AWC-2009	Hand lever of valve SFC-V356 is within $\frac{3}{8}$ " of 4" pipe – clearance violation.	Condition does not meet the Licensing Basis. Clearance between valve and pipe violates specification requirements. Further evaluation required.	<p>CR-RBS-2012-06687 has been initiated. DE has been assigned an action to accept as is the described condition.</p> <p><b>OPERABILITY EVALUATION SUMMARY</b>            This condition report describes unacceptable clearance between the hand wheel of abandoned in place SFC valve and non-safety related drain piping. Neither of the components described are SSCs that fall within the Operability Determination Process. The abandoned in place SFC piping is isolated from the rest of the SFC system and cannot impact SFC.</p>	CR-RBS-2012-06687 is open.
LB-014	SWEL2-006	<p>EHS-MCC8B, Standby SWGR RM 1B MCC8B            On right of 3B in cable way bolt is slightly loose. 3B is a spare breaker.</p> <p>Cubicle 3B – top left screw in bucket to upper plate appears to not be fully engaged (tight). NOTE: 3B is a spare breaker.</p> <p>Cubicle 5B – loose MCC screw on bottom right between cubicle and cable way.</p>	<p>Condition does not meet the Licensing Basis. Evaluation concludes the loose bolt should be fully tight. The condition is not acceptable</p> <p>Condition does not meet the Licensing Basis. Evaluation concludes the screw should be fully engaged, condition is not acceptable</p> <p>Condition does not meet the Licensing Basis. Evaluation concludes the condition of loose screw is not acceptable</p>	<p>CR-RBS-2012-06847 was initiated. Work Order# 00332318 has been initiated to correct the condition.</p> <p><b>OPERABILITY EVALUATION SUMMARY</b>            Based on the evaluation performed, none of these conditions represents an adverse impact on the ability of the active components in the panel to perform their design and licensing basis functions. The seismic qualification of the panel is not adversely affected and the seismic qualification of the active components in the panel is not adversely affected</p>	CR-RBS-2012-06847 is closed to Work Order# WO 00332318.

LB #	SWC/AWC #	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	STATUS
LB-015	SWEL2-005	<p>During inspection of EHS-MCC2H bucket 4D (B21-F098D Main Steam Shutoff Valve) found 2 missing bucket mounting screws for the breaker. This same condition exists for bucket 7D (B21-F027D MS Isol Valve Stem Leak-off Conn).</p>	<p>Condition does not meet the Licensing Basis. Evaluation determined the missing screws in 4D &amp; 7D do not meet the licensing basis documentation. Further evaluation is required.</p>	<p>CR-RBS-2012-06391 and CR-RBS-2012-06399 initiated. Missing screws installed. CR-RBS-2012-6446. CR-RBS-2012-06399 has been closed. Missing bucket mounting screws were replaced per WO 329262.</p>	<p>CR-RBS-2012-06391 has been closed to CR-RBS-2012-6446. CR-RBS-2012-06399 has been closed.</p>
LB-016	AWC-2006	<p>Area walkdown of 98 Control Building</p> <p>HVAC vent grills above ENB-INVO1B1 appears to be missing bolts. Grill is 2-piece, each piece has six fasteners installed. Need to investigate to determine how many fasteners need to be installed.</p> <p>Loose thumb screw on ENS-SWG1B cubicle 1 lower right.</p> <p>Fastener is not tight on ENB-INVO1B1 north face (side), bottom right fastener, on outside of panel</p>	<p>Condition does meet the Licensing Basis. Evaluation concludes acceptability of attachment of HVAC grill requires further evaluation.</p> <p>Condition does not meet the Licensing Basis. Evaluation concludes the condition of a loose thumb screw on a cubicle is not acceptable.</p> <p>Condition does not meet the Licensing Basis. Evaluation concludes one loose crew on the panel is not acceptable.</p>	<p>CR-RBS-2012-06957 initiated. The following WRs were generated to address these conditions: WR 00290023 screw on ENS-SWG1B; WR 00290028 (conduit elbows); WR 00290030</p> <p>OPERABILITY EVALUATION SUMMARY        Based upon the Engineering Evaluations attached in this Condition Report, it can be concluded that all equipment is fully capable of performing its safety function, and remains Operable. The existing vent bolting has been determined to be meet the design requirements.        The loose thumb screw on ENS-SWG1B does not adversely affect the ability of the latch to fully engage and therefore there is no adverse impact on the structural integrity of the door or seismic</p>	<p>CR-RBS-2012-06957 closed to WR 00290023 screw on ENS-SWG1B; WR 00290028 (conduit elbows); WR 00290030 (HVAC grill)</p>

LB #	SWC/AWC #	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	STATUS
LB-017	AWC-2005	NHS-MCC2C and NHS-MCC2D – both cabinets are in close proximity to each other (Approximately 1" apart side to side) but not connected to each other. Potential interactions side to side.) Additional information: MCC2C has 3 sections, MCC2D has 5 sections. Both MCC's welded to sills. (well anchored)	Condition meets the Licensing Basis. . Potential for interaction between 2 MCCs, however the components are non safety related panels. No potential for seismic interaction with safety related equipment.	qualification of the panel. The loose fastener on ENB-INVO1B does not adversely affect the attachment of the cover plate. No action required.	
LB-018	AWC-1048	EHS-MCC2D On rear side of cubicle 2D, the lower right hand door screw is not fully engaged (approximately ½" sticking out). Door is solidly in cubicle and screw may be cross-threaded. Door has two hinges and two screws.	Condition does not meet the Licensing Basis. Evaluation concludes that loose door screw is not acceptable.	CR-RBS-2012-06446 Door screw immediately tightened, and corrected the condition.  OPERABILITY EVALUATION SUMMARY Screw tightened which corrected the condition.	Screw tightened, condition corrected.
LB-019	SWELL-117	EHS-MCC2K 6D, 5A, 4D, 3D, 7D – missing screw in top right corner of cubicle. 2' cubicle  6A – missing a screw on the transformer - lower right screw, red material directly behind fastener hole	Condition does not meet the Licensing Basis. Evaluation concludes that missing fasteners are required to be installed. Further evaluation required.  Condition does not meet the Licensing Basis. Evaluation concludes that the missing fastener is required. Further evaluation is required.	CR-RBS-2012-06869 initiated and Work Order# 332326 initiated to correct the issues.  OPERABILITY EVALUATION SUMMARY Based on engineering evaluations of the conditions described in this CR, EHS-MCC2K is capable of performing all its design functions and satisfying all requirements of Tech Spec 3.8.9 Distribution Systems Operating.	CR-RBS-2012-06869 has been closed to WO 332326.

LB #	SWC/AWC #	IDENTIFIED CONDITION	LICENSING BASIS EVALUATION CONCLUSION	RESOLUTION	STATUS
LB-020	SWEL1-048	<p>EHS-MCC2B - EHS-MCC2B AUX BLDG</p> <p>Cubicle 7A – Missing a bolt on transformer, upper right, 1 of 4 bolts (screws)</p> <p>Cubicle 5A – one screw is missing on the rear wall of the cubicle on the upper right side of the plate</p> <p>Cubicle 1CB – missing lower right back panel screw.</p>	<p>Condition does not meet the Licensing Basis. Evaluation concludes that the missing fastener is required. Further evaluation is required.</p> <p>Condition does not meet the Licensing Basis. Evaluation concludes that the missing fastener is required. Further evaluation required</p> <p>Condition does not meet the Licensing Basis. Evaluation concludes that the missing fastener is required. Further evaluation required</p>	<p>CR-RBS-2012-06866 initiated and Work Order# 332324 and Work Order# 33097 initiated to correct the issues.</p> <p>OPERABILITY EVALUATION SUMMARY</p> <p>Based upon the Engineering evaluations, it can be concluded that all EHS-MCC2B equipment is fully capable of performing its safety function, and remains Operable.</p>	<p>CR-RBS-2012-06866 has been closed to WO 332324 and WO 33097.</p>

Prepared by: John Dunkelberg 

Date: 10/25/12

Reviewed by: BEN KOSBATS   
 Peer Review Team Member

Date: 11/14/12

# **Attachment F**

## **Licensing Basis Evaluations**

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-01 Originating SWC/AWC SWEL1-078

Equipment ID No. HVK-TK1A Equip. Class 21

Equipment Description CNTRL BLDG CHILLED WTR SURGE TK 1A

Location: Bldg. CB Floor El. 98 ft Room, Area 1110

### Condition

Nuts on two (2) out of eight (8) 5/8" diameter bolts for anchorage of the tank base to the concrete pedestal are not fully engaged. Review indicates at least 90% of the threads on both the nuts are engaged with the anchor bolts.

### Documents Reviewed

0237.500-096-014, Rev. 300, 201.130-186 Rev. 002

### Licensing Basis


The design of the anchor bolts require nuts to be fully engaged with few threads to spare.

### Evaluation


Nuts are not fully engaged, further evaluation required.

Ref. CR-RBS-2012-06242

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: Amar Dalawari   
Licensing Basis Reviewer

Date 10/02/12

Reviewed by: John Dunkelberg   
Peer Reviewer

Date 10/3/12



## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-02 Originating SWC/AWC AWC-1075

Equipment ID No. HVK-CHL1C Equip. Class 11

Equipment Description HVKC01 CONTROL BLDG CHILLED WATER COMPRESSOR  
CHL1C

Location: Bldg. CB Floor El. 098 ft Room, Area 1124

### Condition

The clearance between the strut installed 10" above valve assembly HVK-MOV20C and the horizontal SAS pipeline (approximate elevation 109 ft) near valve SAS-V836 is 1/2".

### Documents Reviewed

EP-40G Rev. 005,  
EP-310A Rev. 003,  
BZ-350AM Sheet 1, Rev. 003,  
Specification 228.160

### Licensing Basis

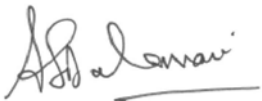
Specification 228.160 requires min. of 1" clearance between pipe and other components.


### Evaluation

Clearance between items does not meet specification requirements of 1" min. This issue needs further evaluation

Ref. CR-RBS-2012-06241

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: Amar Dalawari  Date 10/02/12  
Licensing Basis Reviewer

Reviewed by: John Dunkelberg  Date 10/3/12  
Peer Reviewer

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-03 Originating SWC/AWC: SWEL1-063

Equipment ID No. H13-P693 Equip. Class 20

Equipment Description RPS LOGIC DIV C

Location: Bldg. Control Bldg Floor El. 136 Room, Area 1310

### Condition

Seismic qualification report 8224.600-000-048A indicates the cabinet is bolted per GE mounting pattern with 5/8" bolts. The drawing or calculation depicting /performing analysis of the mounting pattern at the anchorage location could not be located. Seismic qualification report for panel H13-P693 panel does not explicitly show the configuration or the number of the bolts used to mount the test panel to the seismic shake table.

### Documents Reviewed

8224.600-000-048A, Rev. 300, GE-914E522, sheet 1 & sheet 2.

### Licensing Basis


Seismic qualification must be demonstrated by documentation which justifies the acceptability of the as-built anchorage.

### Evaluation

There is no licensing basis document to confirm the number of bolts required to attach the panel to the support structure. This is a documentation issue. Condition Report initiated to locate the GE bolt pattern drawing. CR-RBS-2012-06238 has been initiated.

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: Amar Dalawari   
Licensing Basis Reviewer Date 10/02/12

Reviewed by: John Dunkelberg   
Peer Reviewer Date 10-02-12

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-04 Originating SWC/AWC AWC-1063

Equipment ID No. H13-P693 Equip. Class 20

Equipment Description RPS LOGIC DIV C

Location: Bldg. CB Floor El. 136' Room, Area 1310

### Condition

Loose items in Main Control Room. Temp I&C work table set up adjacent to panel H13-P693, with loose equipment on table.

Several loose items – P&ID chart, stick files on wheels, several office supply cabinets not attached to floor or adjacent panels.

### Documents Reviewed

EDS-ME-002, Rev 2, Control of Loose Items provides general guidelines for adding loose items in the Main Control Room.

### Licensing Basis


EDS-MD-002 provides guidance for temporary work items in the MCR.


### Evaluation

I&C contacted to verify temporary work tables meet intent of EDS-MD-002, or remove/relocate. Other items at north end of Main Control Room may be in accordance with EDS-MD-002 guidelines. Further evaluation needed.

A CR is required.

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: John Dunkelberg  Date 10-04-12  
Licensing Basis Reviewer

Reviewed by: Amar Dalawari  Date 10/4/12  
Peer Reviewer

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-04 Originating SWC/AWC AWC-1063

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Equipment ID No. H13-P693 Equip. Class 20

Equipment Description RPS LOGIC DIV C

Location: Bldg. CB Floor El. 136' Room, Area 1310

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### Condition

Loose items in Main Control Room. Temp I&C work table set up adjacent to panel H13-P693, with loose equipment on table.

Several loose items – P&ID chart, stick files on wheels, several office supply cabinets not attached to floor or adjacent panels.

### Documents Reviewed

EDS-ME-002, Rev 2, Control of Loose Items provides general guidelines for adding loose items in the Main Control Room.

### Licensing Basis

EDS-MD-002 provides guidance for temporary work items in the MCR.

### Evaluation

RBS Design Engineering contacted I&C, asked them to verify temporary work tables meet intent of EDS-MD-002, or remove/relocate.

RBS Design Engineering reviewed the condition and provided the following disposition:


“EDS-ME-002 “Control of Loose Items” provides instructions for storing loose items in the plant, including the control room. Additional information is found in ER-RB-1996-0504-000 and ER-RB-2003-0326-004. It was determined that the described conditions satisfy the requirements of the above documents and therefore there is no seismic interaction issue.”

Based on the above evaluation, RBS Engineering did not initiate a CR.


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**Conclusion** Condition Meets the Licensing Basis:

Yes  No

Prepared by: John Dunkelberg   
Licensing Basis Reviewer

Date 10-04-12

Reviewed by: Amar Dalawari   
Peer Reviewer

Date 10/4/12

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-05 Originating SWC/AWC SWEL1-047

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Equipment ID No. EHS-MCC16A Equip. Class 1

Equipment Description STANDBY CLG TOWER 1 MTR CNTRL CENTER 16A

Location: Bldg. SCT Floor El. 118 ft Room, Area 0104

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### Condition

The following three issues were identified:

- 1) Panel / Bucket 4D: Top hinge is off the swivel pin. The pin is not inside the stationary hinge. Does not appear to cause an operation problem.
- 2) Panel / Bucket 5B: The screw appears to be missing at bottom left hand corner of transformer.
- 3) Panel / Bucket 2A: Transformer has three screws installed. The top right screw was not installed. The panel does not appear to be drilled for the fourth hole.

### Documents Reviewed

0242.562-082-291 Rev. 301

0242.562-082-292 Rev. 301

G13.18.15.2\*010 Rev. 0

4244.566-801-001B, Rev. 300

4242.562-082-002E, Rev. 300

4242.562-082-008, Rev. 00

### Licensing Basis

Documentation requires that the panel have all hinges and fasteners installed to demonstrate seismic qualification.

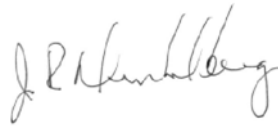
### Evaluation

There are no documents and/or seismic qualification reports; and review of the condition indicates that there is no licensing basis to justify qualification of the panel with two (2) hinges out of three (3) hinges engaged or to seismically accept the transformers installed with three (3) screws instead of qualified four (4) screws. Further evaluation is required.

CR-RBS-2012-06311 has been written.

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: Amar Dalawari   
Licensing Basis Reviewer Date 10/05/12

Reviewed by: John Dunkelberg   
Peer Reviewer Date 10/5/12

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-06 Originating SWC/AWC SWEL1-062

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Equipment ID No. ENS-SWG1A Equip. Class 3

Equipment Description 4160 Standby SWGR Bus1A

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Location: Bldg. CB Floor El. 98 Room, Area 1117

### **Condition**

The door lower hinge pin raised approximately 1/4 inch at ACB08. The door upper hinge pin raised approximately 1/4" at ACB04;

The door middle hinge pin is raised at ACB06.

Tie wrap (FME) is on right sided of cubicle ACB07.

Upper wire tie to cabinet at door is broken on ACB08 hinge side.

### **Documents Reviewed**

0242.521-102-002

Specification 248.000

### **Licensing Basis**

Hinge pins should be completely engaged in hinge leaf(s).

### **Evaluation**

The raised hinge pins is not in conformance with the licensing basis. However, the 1/4" protrusion of the hinge pins do not adversely impact the ability of the door to remain in place during all operating conditions including seismic events as there is adequate connection to fully support the weight of the door, and as the load is distributed over all door connection points. As a result, this condition has no adverse impact on the proper operation of the doors or of the panel.

Tie wrap (FME) is on right sided of cubicle ACB07. Upper wire tie to cabinet at door is broken on ACB08 hinge side. Not seismic issue. Tie wrap & wire bundles not reqd. by 248.000, installed for convenience of Maintenance, not seismic issue.


Ref: CR-RBS-2012-06312


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**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: John Dunkelberg  Date 10-25-2012  
Licensing Basis Reviewer

Reviewed by: Amar Dalawari  Date 10/25/12  
Peer Reviewer

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-07 Originating SWC/AWC SWEL1-056

Equipment ID No. ENB-BAT01A Equip. Class 15 – Battery Racks

Equipment Description STANDBY BUS A 125 VOLTS DIRECT CURRENT SYS  
BATTERY BANK 1A

Location: Bldg. CB Floor El. 116 Room, Area N/A

### Condition

ENB-BAT01A, battery rack angle attachment to the imbedded sill is missing one weld of two (on either side of angle) at two locations. The first location is at cell 38 and the second location is at cell 42. These are the lower racks (shorter ones). There are approximately 60 such welds on the lower rack.

### Documents Reviewed

EE-038C  
EE-038AA  
E&DCR C-20908A


### Licensing Basis


Welds are shown at each support point

### Evaluation

E&DCR C-20908A approved the deletion of these welds. Condition is in compliance with design/licensing basis.

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: John Dunkelberg  Date 10-5-12  
Licensing Basis Reviewer

Reviewed by: Amar Dalawari  Date 10/5/12  
Peer Reviewer

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-08 Originating SWC/AWC SWEL1-057

Equipment ID No. ENB-CHRG1A Equip. Class 16

Equipment Description STDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATRY  
BANK 1A CHARGER 1A

Location: Bldg. CB Floor El. 116 ft Room, Area 1214

### Condition

Two tapping screws (#10-32) on the Terminal Panel depicted on drawing 0244.523-072-021 are missing. Terminal board sized 38" x 27" requires to be mounted on the structural steel channel of the charger using twelve (12) #10-32 screws.

### Documents Reviewed

0244.523-072-021 Rev. 300


### Licensing Basis


There is no licensing basis document to justify mounting the terminal panel to the structural steel members of the charger using ten (10) screws instead of twelve (12) screws as identified in drawing 0244.523-072-021.

### Evaluation

Missing fasteners are required per 0244.523-072-021.  
CR-RBS-2012-06326 has been initiated.

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: Amar Dalawari  Date 10/06/12  
Licensing Basis Reviewer

Reviewed by: John Dunkelberg  Date 10/6/12  
Peer Reviewer

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-09 Originating SWC/AWC SWEL 1-045

Equipment ID No. EHS-MCC14A Equip. Class 1

Equipment Description STANDBY SWGR RM 1A 480V MCC14A

Location: Bldg. CB Floor El. 98 Room, Area \_\_\_\_\_

### Condition

Front door at breaker 2AT the top hinge was not attached completely (pin out of hinge significantly) Door is approximately 12" x 12" with 2 hinges and two latches.

Front door at breaker 2AB, the top hinge was not attached completely (pin out of hinge significantly) Door is approximately 12" x 12 with 2 hinges and two latches.

Mounting for control power transformers are missing one mounting screw of 4. Bottom Right Screw Missing - Cubicle 2C, 4A, 4C, 4D, 4E, 4F; Bottom Left Screw Missing - Cubicle 4B

### Documents Reviewed

0242.562-082-006

0242.562-082-007


### Licensing Basis

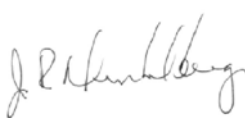
Documentation requires that the panel have all hinges and fasteners installed to demonstrate seismic qualification.

### Evaluation

There is no licensing basis for loose fasteners and items as described above. Further evaluation is required. See CR-RBS-2012-06323.

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: Amar Dalawari  Date 10-06-12  
Licensing Basis Reviewer

Reviewed by: John Dunkelberg  Date 10/6/12  
Peer Reviewer

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-10 Originating SWC/AWC SWEL1-049

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Equipment ID No. EHS-MCC2L Equip. Class 1

Equipment Description AUXILIARY BUILDING MCC2L

Location: Bldg. AB Floor El. 141 ft Room, Area 6306

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### Condition

Panel / Bucket 2B: The screw that attaches the back plate of the breaker to the bucket is missing in the upper right corner

Panel / Bucket 1C: Transformer is missing upper right attachment screw (3 screws of 4 are installed)

### Documents Reviewed

0242.562-082-111 Rev. 301

0242.562-082-112 Rev. 301

G13.18.15.2\*010 Rev. 0

4244.566-801-001B, Rev. 300

4242.562-082-002E, Rev. 300

4242.562-082-003A, Rev. 300

4242.562-082-008, Rev. 300

201.130-168, Rev. 01

### Licensing Basis

Documentation requires that the back plate and transformer have all fasteners installed to demonstrate seismic qualification.

### Evaluation

There are no documents and/or seismic qualification reports; and review of the condition indicates that there is no licensing basis to justify qualification of the circuit breaker where the back plate is attached to the bucket with three (3) screws instead of the four (4) screws required by the design documents, or missing transformer screw.

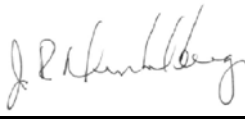
CR RBS-2012-06483 has been initiated for this condition.

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**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: Amar Dalawari   
Licensing Basis Reviewer Date 10/08/12

Reviewed by: John Dunkelberg   
Peer Reviewer Date 10/8/12

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-11 Originating SWC/AWC AWC-1070

Equipment ID No. HVC-AOD6A Equip. Class 7

Equipment Description HVC\*ACU1A AIR OUTLET (CD-1-1

Location: Bldg. CB Floor El. 115 Room, Area 1200

### Condition

S hooks on light fixtures are open at various locations. There is a potential for light fixtures to become unhooked from support chains during a seismic event, and potentially become a missile that might adversely interact with plant soft targets. Specific cases noted in Control Bldg El 115 ft. north end of bldg, HVC room:

Overhead hanging light fixture above HVC-PDI23A has open S hook on fixture north end chain support. South end fixture support chain S hook is closed. NOTE: there are no safety related soft targets in the area of this fixture, and therefore not a seismic issue if the chain were to fail.

North end of room, light fixture north of HVC-FN1A, east end fixture support chain S hook is open. West side support chain S hook closed.

NOTE: intervening 4x4TS structure will not allow contact of fixture with nearby safety related components, if the chain were to fail. Therefore not a seismic issue.

South end of room, light fixture north of SCI-XRC10B1, light fixture north side support chain S hook is not properly attached to the fixture. South support chain S hook is closed. Note: There are no safety related soft targets in the area, and therefore not a seismic issue.

Elevation 98 ft CB:

The "S" hooks supporting the lights behind EHS-MCC8B and ENB-SWG01B are open and need to be closed. However, the location of the fixtures cannot create a seismic interaction with any safety related components.

One light behind EHS-MCC8B is installed in a tilted or out of level position. The light is secure (not a seismic issue)

### Documents Reviewed

EE-073 series drawings

**Licensing Basis**


Non safety related items are to be supported such that there is no interaction with plant equipment.


**Evaluation**

The 2 bulb florescent fixtures are generally supported from chains attached to overhead structures. The fixture connects to the chain with an "S" hook. The "S" hook on fluorescent lighting chains in seismic areas is controlled by EE-073 series drawings. Drawing EE-073A, detail AT require the "S" hook to be closed.

CR RBS-2012-07090 has been initiated.

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: John Dunkelberg  Date 10-25-2012  
Licensing Basis Reviewer

Reviewed by: Amar Dalawari  Date 10/25/12  
Peer Reviewer



## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-12                      Originating SWC/AWC SWEL1-119

Equipment ID No. HVR-AOV165 Equip. Class 7

Equipment Description CONTMT SPLY OUTBD ISOL (AL-2-152')

Location: Bldg. AB Floor El. 141 ft Room, Area 6307

### Condition

One (1) of the eight (8) bolts that mount the actuator to the mounting bracket installed between the valve and the actuator is missing. Per drawing 0228.241-092-014, the bolts are A193 Grade B7 material. Seismic walk down team also confirmed that all four (4) bolts between the mounting bracket and the valve are installed.

### Documents Reviewed

0228.241-092-014 Rev. 300  
SQE 1903, Rev. 002  
4228.241-092-004F, Rev. 300

### Licensing Basis


Documentation requires that the actuator mounting bracket have all fasteners installed to demonstrate seismic qualification.

### Evaluation


There are no documents and/or seismic qualification reports; and review of the condition indicates that there is no licensing basis to justify qualification of the valve assembly where operator is attached to the bracket with seven (7) bolts instead of the eight (8) bolts required by the design documents. The missing bolt is required to be installed per the design drawing and seismic report.

CR-RBS-2012-06352 initiated.

**Conclusion** Condition Meets the Licensing Basis:                       Yes                       No

Prepared by: Amar Dalawari   
Licensing Basis Reviewer

Date 10/10/12

Reviewed by: John Dunkelberg   
Peer Reviewer

Date 10/10/12

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-13 Originating SWC/AWC AWC -2009

Equipment ID No. SPF-AOV32B Equip. Class 7

Equipment Description F POOL PRFCN FLT1B INLST FD-9-87

Location: Bldg. FB Floor El. 070 Room, Area 5021

### Condition

Hand lever of valve SFC-V356 is within  $\frac{3}{4}$ " of 4" pipe – clearance violation

### Documents Reviewed

228.160


### Licensing Basis


Documentation requires that these components have a minimum 1" clearance to demonstrate seismic qualification.

### Evaluation

Further evaluation is required. See CR-RBS-2012-06687

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: John Dunkelberg  Date 10-10-12  
Licensing Basis Reviewer

Reviewed by: Amar Dalawari  Date 10/10/12  
Peer Reviewer

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-14 Originating SWC/AWC SWEL2-006

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Equipment ID No. EHS-MCC8B Equip. Class 1

Equipment Description STANDBY SWGR RM 1B MCC8B

Location: Bldg. CB Floor El. 98 Room, Area 1114

---

### Condition

Cubicle 2AT – The breaker is missing the washer behind the rivet head, near the panel cover catch

Cubicle 2B – Split block cover is not fully engaged at bottom

Cubicle 1B, Right side of cubicle, temp tag in cableway

Cubicle 2D, Right side of cubicle, power cable appears to be tight to bottom of MCC, touching steel.

Cubicle 3AB, missing grommet with power cable through back wall.

Cubicle 3B, cable way on right of cubicle, loose bolt. Bolt is between cable way and cubicle is installed, but not tight.

Cubicle 3B – top left screw in bucket to upper plate may not be fully engaged (tight)

Cubicle 4C, cableway on right, grommet is not fully engaged.

Cubicle 5E, at bottom of cubicle, bottom of door, catch plate appears out of alignment

Cubicles 4A, 5C, 7C – Control wire needs to be taped

Cubicle 4D – On mounting plate, not all the mounting screws have washers.

Cubicle 5A – Center fuse terminal screw on bottom is not seated (no cable installed at this location).

Cubicle 5B – Loose MCC screw on bottom right between cubicle and cable way

Cubicle 7A – Loose door latch thumb screw on top right side “door latch”

Cubicle 7F – a piece of foreign material approximately 3” long x ½” wide x 1/8” thick is between breaker cubicle and outside panel on the left side of bottom.

### **Documents Reviewed**

0242.562-082-004  
0242.562-082-005  
MR 94-0048  
E&DCR C26399B

### **Licensing Basis**

There is no licensing basis for loose fasteners.

### **Evaluation**

Cubicle 2AT – The breaker is missing the washer behind the rivet head, near the panel cover catch. (not a seismic issue, Refer to MR 94-0048 for discussion of breaker handle issues).

Cubicle 2B – Split block cover is not fully engaged at bottom---Control power split block covers were added under E&DCR C26399B and are not required for seismic or EQ and their failure has no impact with respect to operation of the associated components based on EQIS C-320, not seismic issue.

Cubicle 1B, Right side of cubicle, temp tag in cableway, FME/ housekeeping item, not seismic issue.

Cubicle 2D, Right side of cubicle, power cable appears to be tight to bottom of MCC, touching bottom edge of panel. Not seismic issue.

Cubicle 3AB, missing grommet with power cable through back wall. Not seismic issue.

Cubicle 3B, cable way on right of cubicle, loose bolt. Bolt is between cable way and cubicle is installed, but not tight. Per drawing 0242.562-082-004, cubicle 3B is a spare cubicle and breaker installed in the cabinet is not taking any electrical load. Further evaluation is required.

Cubicle 3B – top left screw in bucket to upper plate may not be fully engaged (tight). Per drawing 0242.562-082-004, cubicle 3B is a spare cubicle and breaker installed in the cabinet is not taking any electrical load. Further evaluation is required.

Cubicle 4C, cableway on right, grommet is not fully engaged. Not seismic issue.

Cable way to right of Cubicle 5E, at bottom of cubicle, bottom of door, catch plate appears out of alignment. Door closes and latches per design. Not seismic issue.

Cubicles 4A, 5C, 7C – Control wire needs to be taped. Wires are not terminated and do not appear to be an electrical issue. Not a seismic issue.

Cubicle 4D – On mounting plate, not all the mounting screws have washers (not lock washers). Use of non locking washers with mounting screws does not adversely affect the ability of the screw to make up a adequate connection. Not seismic issue.

Cubicle 5A – Center fuse terminal screw on bottom is not seated (no cable installed at this location, not a seismic issue)

Cubicle 5B – loose MCC screw on bottom right between cubicle and cable way.


Response: Per drawing 0242.562-082-004, cubicle 5B is a spare cubicle and no components are installed in this cubicle. Further evaluation is required.


Cubicle 7A – Loose door latch thumb screw on top right side “door latch”. This cubicle is a spare (Future). It is approximately 18 inches tall, and has 2 hinges and 2 door latch thumb screws to secure it to the cabinet. Review of the drawing and inspection of the Training Department spare MCC shows that the loose door latch may allow the door to move slightly in and out of the plane of the cubicle. However, the door cannot move towards the bucket as the door stops are in place thereby not allowing movement towards the bucket. Any small increase in loading on the door due to the movement of the loose screw would be distributed to the other three attachment points, and this potential loading would be well within the capacities of these attachment points. Since there is not active electrical component in the cubicle, there is no potential adverse reaction due to the loose door latch. Based on the above, there is no seismic issue.

Cubicle 7F – a piece of foreign material approximately 3” long x ½” wide x 1/8” thick is between breaker cubicle and outside panel on the left side of bottom (house keeping, not a seismic issue)

CR-RBS-2012-06847 is initiated.

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: John Dunkelberg   
Licensing Basis Reviewer Date 10-29-12

Reviewed by: Amar Dalawari   
Peer Reviewer Date 10-29-12

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-15 Originating SWC/AWC SWEL2-005

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Equipment ID No. EHS-MCC2H Equip. Class 1

Equipment Description AUXILIARY BUILDING MCC2H

Location: Bldg. AB Floor El. 114 ft Room, Area 6203

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### Condition

Cubicle 1E – May need edge guard at lower right side of bucket.

Cubicle 3C – The Split block cover is not fully engaged at top.

Cubicles 4D, 7D – Appears to be missing 2 mounting screws for breaker mounting plate.

Top right and Middle right.

Cubicle 5B – Split block cover is not installed and is loose in the bottom of bucket.

Ref. CR-RBS-2012-06391; CR-RBS-2012-06399

### Documents Reviewed

0242.562-082-087 Rev. 301

8224.160-000-048A, Rev. 300

4244.566-801-001B, Rev. 300

4242.562-082-002E, Rev. 300

4242.562-082-003A, Rev. 300

4242.562-082-008, Rev. 300

201.130-168, Rev. 01

### Licensing Basis

Documentation requires that the mounting plate have all fasteners installed to demonstrate seismic qualification.

**Evaluation**

Cubicle 1E – May need edge guard at lower right side of bucket. Not a seismic issue

Cubicle 3C – The Split block cover is not fully engaged at top. Not a seismic issue

Cubicles 4D, 7D – Appears to be missing 2 mounting screws for breaker mounting plate.  
Top right and Middle right. This condition requires further evaluation.


Cubicle 5B – Split block cover is not installed and is loose in the bottom of bucket. Not a seismic issue.

CR-RBS-2012-06391 & CR-RBS-2012-06399 initiated.

---

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: Amar Dalawari  Date 10/10/12  
Licensing Basis Reviewer

Reviewed by: John Dunkelberg  Date 10/10/12  
Peer Reviewer



## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-16 Originating SWC/AWC AWC-2006

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Equipment ID No. EHS-MCC8B Equip. Class 1

Equipment Description STANDBY SWGR RM 1B MCC8B

Location: Bldg. CB Floor El. 098 ft Room, Area 1114

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### **Condition**

Several mounting bolts on the vent grills on the HVAC ductwork installed overhead just east of component ENB-INV01B1 appear to missing. On each of these two (2) 24" x 30" vent grilles six (6) of the twelve (12) pre-drilled holes in the frame of the vent grilles have the mounting bolts.

Loose thumb screw on ENS-SWG1B cubicle 1, lower right.

Loose screw on ENB-INV01B1 north face, bottom right is not tight.

### **Documents Reviewed**

0216.110-996-066

0216.110-996-074

0216.110-996-076

0244.514-000-021

0244.514-000-022

### **Licensing Basis**

Documentation requires that the vent grill have all fasteners installed, and ENS-SWG1B thumb screw be installed (and tight) to demonstrate seismic qualification.


### **Evaluation**


No documents could be located that define exactly how many bolts or screws are needed to attach the vent grilles to the ductwork framing. No documents exist to accept loose thumb screw on ENS-SWG1B cubicle 1, lower right.

Further evaluation is required to determine the acceptability of the attachment of the HVAC grill, and loose thumb screw on ENS-SWG1B, cubicle1.

CR-RBS-2012-06957 has been initiated.

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: Amar Dalawari   
Licensing Basis Reviewer Date 10/12/12

Reviewed by: John Dunkelberg   
Peer Reviewer Date 10/12/12

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-17 Originating SWC/AWC AWC-2005

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Equipment ID No. EHS-MCC2H Equip. Class 1

Equipment Description AUXILIARY BUILDING MCC2H

Location: Bldg. CB Floor El. 98 Room, Area 1114

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### Condition

NHS-MCC2C & NHS-MCC2D: Cabinets are in close proximity to each other (approx 1") but not connected (bolted together). MCC2C has 3 sections, MCC2D has 5 sections. Both welded to sills, potential seismic interaction is side to side.

Observation: At door PW-123-04, hoist in the overhead with chain that extends from 123' to 114' floor, touching nearby rigid conduits.

### Documents Reviewed

Asset Suites

242.561

0242.561-081-080

### Licensing Basis


These panels are not required to function during and after a seismic event, as they are not safety related.


### Evaluation

Based on review Asset Suites & specification 242.561, NHS-MCC2C & NHS-MCC2D are classified as non-safety related panels. The panels are mounted adjacent to each other, side to side. Each panel is welded to embedded floor sill plates. The panels may interact with each other during a seismic event, since they are separated by a small space, less than 1". However, due to the location of the panels in the room, there will be no adverse seismic interaction with any safety related equipment in the room.

Hoist chain in overhead that extends from 123' to 114' floor, touches nearby rigid conduits. Not a seismic concern due to length of chain (it will just sway, without hard impact on conduits) and the conduits are not soft targets.

**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: John Dunkelberg   
Licensing Basis Reviewer Date 10-25-2012

Reviewed by: Amar Dalawari   
Peer Reviewer Date 10/25/12

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-18 Originating SWC/AWC AWC-1048

Equipment ID No. EHS-MCC2D Equip. Class 1

Equipment Description AUXILIARY BUILDING MCC2D

Location: Bldg.  Aux  Floor El. 141 Room, Area 6302

### Condition

1. EHS-MCC2D behind cubicle 2D, lower right hand door screw is not fully engaged, approx 1/2" sticking out.
2. EHS-MCC2D behind cubicle 4A door hinge needs readjustment. Door is currently secure with tight fit.
3. Near vert. cable tray 1TL803B, behind EHS-MCC2B, sprinkler head about 20 ft in overhead is very close (almost touching) to cable tray.
4. Above COP-H230 (EJS-SWG2B area) there is a length of rope in the overhead.

### Documents Reviewed

EEAR-E0420


### Licensing Basis

All fasteners must be installed per design to satisfy seismic requirements


### Evaluation

1. EHS-MCC2D behind 2D, screw not fully engaged. Nonconforming condition, WR 287016 written to rework. CR-RBS-2012-06446 initiated to track issue.
2. EHS-MCC2D behind cubicle 4. Door is securely attached to panel, and therefore there is no seismic issue. Rework door hinge.
3. Sprinkler head clearance has been evaluated by EEAR-E0420, acceptable.
4. Rope in the overhead is a housekeeping issue, not a seismic issue.

**Conclusion** Condition Meets the Licensing Basis:  Yes  NoPrepared

by: John Dunkelberg   
Licensing Basis Reviewer

Date 10-12-12

Reviewed by: Amar Dalawari   
Peer Reviewer

Date 10/12/12

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-19 Originating SWC/AWC SWEL1-117

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Equipment ID No. EHS-MCC2K Equip. Class 1

Equipment Description Auxiliary Building MCC2K

Location: Bldg. A B Floor El. 141 Room, Area 6302

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### Condition

Cubicle 6B, 6C, 3B, 2C – split block cover may not be fully engaged on bottom.

6D, 5A, 4D, 3D, 7D – missing screw in top right corner of cubicle.

6A – missing a screw on the transformer - lower right screw, red material directly behind fastener hole.

### Documents Reviewed

0242.562-082-113, Rev. 300

0242.562-082-114, Rev.301

G13.18.15.2\*010, Rev. 0

4244.566-801-001B, Rev. 300

4244.566-801-002E, Rev. 300

EQIS C-320 & E7DCR C26399B

### Licensing Basis

Documentation requires cubicles to have all internal fasteners installed to demonstrate seismic qualification.

### Evaluation

Cubicle 6B, 6C, 3B, 2C – split block cover may not be fully engaged on bottom. Control power split block covers were added under E&DCR C26399B and are not required for seismic or EQ and their failure has no impact with respect to operation of the associated components based on EQIS C-320.


6D, 5A, 4D, 3D, 7D – missing screw in top right corner of cubicle. 2' cubicle – Further evaluation is required.


6A – missing a screw on the transformer – Further evaluation is required.

CR-RBS-2012-06869 has been initiated

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**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: John Dunkelberg   
Licensing Basis Reviewer Date 10-25-2012

Reviewed by: Amar Dalawari   
Peer Reviewer Date 10/25/12

## Licensing Basis (LB) Evaluation Form

LB Evaluation No. LB-20 Originating SWC/AWC SWEL1-048

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Equipment ID No. EHS-MCC2B Equip. Class 1

Equipment Description EHS-MCC2B

Location: Bldg. AB Floor El. 141 Room, Area 6303

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### Condition

Cubicle 7A – Missing a bolt on transformer, upper right, 1 of 4 bolts (screws)

Cubicle 5A – one screw is missing on the rear wall of the cubicle on the upper right side of the plate

Cubicle 4A – no cover on split term block (spare cubicle) – Not a seismic issue

Cubicle 1CT – missing grommet on right side (power entering cubicle)- Not seismic issue.

Cubicle 1CB – missing lower right back panel screw

Cubicle 1D, grommet is not engaged on right side of cubicle.

### Documents Reviewed

MR 94-0048

E&DCR C26399B

### Licensing Basis

Documentation requires that the cubicle internal components have all fasteners installed to demonstrate seismic qualification.

### Evaluation

Cubicle 7A – Missing a bolt on transformer, upper right, 1 of 4 bolts (screws). This MCC is located in the Auxiliary Building. Building acceleration values are lower in this building than the Standby Cooling Tower (SBCT). LB-06 & CR-RBS-2012-6311, which evaluates missing transformer screws in the SBCT, envelops this condition of only 3 of 4 transformer screws installed in cubicle 6A. Therefore a missing screw in cubicle 7A is acceptable.



Cubicle 5A – one screw is missing on the rear wall of the cubicle on the upper right side of the plate. This is the same condition observed in SWEL1-117. Further evaluation is required.

Cubicle 4A – no cover on split term block (spare cubicle) – Control power split block covers were added under E&DCR C26399B and are not required for seismic or EQ and their failure has no impact with respect to operation of the associated components based on EQIS C-320.

Cubicle 1CT – missing grommet on right side (power entering cubicle)- Not seismic issue.


Cubicle 1CB – missing lower right back panel screw. The missing screw is not installed due to interference with insulation (red) behind the panel. Further evaluation is required.


Cubicle 1D, grommet is not engaged on right side of cubicle. Not a seismic issue.

CR-RBS-2012-06866 is initiated.

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**Conclusion** Condition Meets the Licensing Basis:  Yes  No

Prepared by: John Dunkelberg  Date 10-25-2012  
Licensing Basis Reviewer

Reviewed by: Amar Dalawari  Date 10/25/12  
Peer Reviewer

## **Attachment G**

### **Peer Review Checklist for SWEL**

## Peer Review Checklist for SWEL

Sheet 1 of 3

### Instructions for Completing Checklist

This peer review checklist may be used to document the review of the Seismic Walkdown Equipment List (SWEL) in accordance with EPRI 1025286, Section 6: Peer Review. The space below each question in this checklist should be used to describe any findings identified during the peer review process and how the SWEL may have changed to address those findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Were the five safety functions adequately represented in the SWEL 1 selection? Y  N

*The SWEL 1 selection represents all five (5) safety functions. Several components support multiple safety functions. Selected components include both frontline and support systems.*

2. Does SWEL 1 include an appropriate representation of items having the following sample selection attributes:

- a. Various types of systems? Y  N

*Items on SWEL 1 are part of a variety of systems such as Reactor Protection, Standby Liquid Control, Automatic Depressurization, High Pressure Core Spray, Low Pressure Core Spray, Residual Heat Removal, Reactor Core Isolation Cooling, Main Control Room Ventilation and vital A/C and D/C power systems. Critical subsystems include the Main Steam Isolation Valves and the Standby Cooling Towers.*

- b. Major new and replacement equipment? Y  N

*Several major new and replacement equipment installed or upgraded within the past 15 years are included on SWEL 1.*

- c. Various types of equipment? Y  N

*SWEL 1 includes at least one example of each of the 21 classes of equipment identified in Appendix B of EPRI 1025286, except class 13 (Motor Generators). RBS has no safety-related motor generators, so none met the screening criteria for inclusion on Base List 1; therefore, class 13 does not require representation. In general, the number of components in each class is approximately proportional to the number of each class represented on Base List 1. All other classes besides class 11 (Chillers) has at least two components.*

## Peer Review Checklist for SWEL

Sheet 2 of 3

- 
- d. Various environments? Y  N   
*The components selected for SWEL 1 are located in different buildings, rooms, and/or are on different building elevations. These environments include hot and/or humid areas, inside and outside areas, mild and harsh (i.e., containment).*
- e. Equipment enhanced based on the findings of the IPEEE (or equivalent) program? Y  N   
*N/A - No equipment enhancements were associated with Seismic IPEEE for RBS.*
- f. Were risk insights considered in the development of SWEL 1? Y  N   
*The success path equipment list from the IPEEE program was used as a starting point for SWEL 1, which considers equipment importance for safe shutdown. Additionally, risk insights from the plant's Probabilistic Risk Assessment (PRA) model were considered during equipment selection, specifically the Risk Achievement Worth (RAW) values.*
- 

### 3. For SWEL 2:

- a. Were spent fuel pool related items considered, and if applicable included in SWEL 2? Y  N   
*SWEL 2 includes components associated with spent fuel pool cooling, which are Seismic Category I systems or equipment.*
- b. Was an appropriate justification documented for spent fuel pool related items not included in SWEL 2? Y  N   
*Justification was documented for selection of SWEL 2 components. Based on a review of plant drawings, there are no spent fuel pool penetrations below 10' above the top of the spent fuel racks. Additionally, a review of licensing documents indicate that passive anti-siphon devices ensure that a pipe break will not cause siphon of water below this level. Therefore, there were no components identified that could contribute to rapid drain-down of the spent fuel pool.*
-

**Peer Review Checklist for SWEL**

**Sheet 3 of 3**

4. Provide any other comments related to the peer review of the SWELs.

*The peer review team evaluated the initial SWEL 1 and SWEL 2 to ensure that they met the requirements of EPRI 1025286, and provided comments and clarifying questions. Comments and clarifying questions included requests for additional documentation of the component selection process (i.e.: Why was class 13 not represented? Where is there confirmation that the IPEEE program did not identify any vulnerability? Why is rapid drain-down not a concern?)*

*Changes to the initial SWEL deemed necessary during the walkdown due to inaccessibility were reviewed by the peer reviewers to ensure that the changes did not compromise the overall integrity of the SWEL with respect to these requirements.*

*The peer reviewers conclude that the components selected are reasonable and diverse, and that the final SWEL meets the intent and specific requirements of EPRI 1025286.*

5. Have all peer review comments been adequately addressed in the final SWEL?

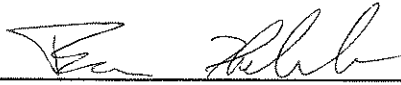
Y  N

Peer Reviewer #1: Bivins Calhoun



Date: 10/24/2012


Peer Reviewer #2: Ben Kosbab




Date: 10/24/2012


**Attachment H**  
**Peer Review Comment Forms**



<u>Comment Form</u>	<u>Page</u>
SWEL Peer Review	2
Walkdowns/Checklists Review	7
Licensing Basis Evaluations Review	14

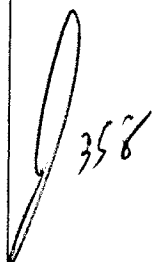
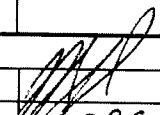
 Seismic Walkdown Submittal Report Review Comments and Resolutions Form				
Engineering Report Number	RBS-CS-12-00001	Rev. 000	Title River Bend Station Seismic Walkdown Report for Resolution of Fukushima NTF 2.3: Seismic	
Quality Related:		Special Notes or Instructions: Comments apply to SWEL review		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Comment Number	Section/Page No.	Review Comment	Response/Resolution	Reviewer's Accept Initials
1	BL 1	Define what the asterisk (*) denotes under Screen 3. A legend would be a good way to accomplish this.	The asterisk indicates that the item supports a secondary safety function. A footnote to the table has been provided.	BDK
2	BL 1	All items under Screen 2 are shown to undergo regular configuration inspections. Is this true? If all undergo inspections then all will screen out of the SWEL 1 list.	No, this is not true and has been corrected.	BDK
3	BL 1	Screen 3 answers should be "Yes" or "No". Functions currently listed under this column should be summarized in the "Five Safety Functions" columns.	Noted. The column was updated to Y/N responses and the "Five Safety Functions" updated.	BDK
4	BL 1	Screen 4 does not identify any BL1 items as having been enhanced as a result of the IPEEE program. Please confirm that the RBS IPEEE program did not identify any seismic vulnerabilities.	Confirmed, based on the RBS IPEEE submittal and NUREG-1742.	BDK
5	BL 1	No equipment is listed as High Temp or High Humidity under Screen 4. Please confirm (seems like SSCs inside containment and those outside would be due to climate? – hot & humid are not defined by EPR1).	Draft reviewed was incomplete. That column has been populated as needed.	BDK
6	BL 1	Valve C11-SOVF182 should be listed as Reactivity Control, not DHR, under "Five Safety Functions".	Corrected.	BDK
7	BL 1	Numerous items checked "Y" for Screen 3 are blank for Screen 5 (no category indicated). If these do not maintain one of the 5 functions Screen 3 should be "N" or possibly "Y" with an additional clarifying note.	Clarification was made that those items that do not have a safety function specified support a secondary one that ultimately maintains at least one of the safety functions	BDK


 Seismic Walkdown Submittal Report Review Comments and Resolutions Form				
Engineering Report Number	RBS-CS-12-00001	Rev. 000	Title River Bend Station Seismic Walkdown Report for Resolution of Fukushima NTTF 2.3: Seismic	
<b>Quality Related:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Special Notes or Instructions:	Comments apply to SWEL review			
Comment Number	Section/Page No.	Review Comment	Response/Resolution	Reviewer's Accept Initials
8	SWEL 1	System Type column should include reference to the frontline systems that these are a part of as listed in EPRI Table B-2 in Appendix E (not just the safety function).	There was some confusion as to how to fill this column out. RBS Engineering interpreted it to be the way it is populated. This was confirmed as acceptable from Entergy corporate, and consistent with other Entergy sites. No change required.	BDK
9	SWEL 1	There is no equipment representing category 13 (motor generator). Please confirm if any apply.	There were no motor generators on the original list provided by the client that began from the IPEEE evaluations done previously. RBS does not have any safety related Motor Generators.	BDK
10	RDD	Need to confirm basis for determining that no items impact rapid drain-down (i.e. no SFP penetrations exist below about 10 ft above the top of the fuel assemblies). USAR section 9.1.2.3.3 states that anti-siphoning devices are present to prevent pool water from being siphoned below 10 ft above the top of the fuel, but does not say there are no penetrations below this level. Per EPRI guidance we must either confirm that there are no penetrations below this level, justify why these devices can be removed from SWEL 2, or add them to RDD & SWEL 2 (reference EPRI FAQ item 3.12).	After further document review, Figure 9.1-7 of the RBS USAR identified the elevation of the top of the spent fuel racks is at Elev. 85'. Using that elevation, drawings EC-062U, V, W, EP-077 Series, and EV-003A Series show no penetrations in the pool below Elev. 95'.	BDK





		Seismic Walkdown Submittal Report Review Comments and Resolutions Form			
Engineering Report Number	RBS-CS-12-00001	Rev. 000	Title River Bend Station Seismic Walkdown Report for Resolution of Fukushima NTTF 2.3: Seismic		
<b>Quality Related:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Special Notes or Instructions:</b> Comments apply to SWEL review			
Comment Number	Section/Page No.	Review Comment		Response/Resolution	Reviewer's Accept Initials
11	SWEL 1 & 2	Consider reducing items on list by eliminating duplicates based on known availability during walkdowns.		This has been considered and planning of the walkdowns is being done based on divisional access to allow us to inspect all items on the list.	BDK
Reviewed By:		Date		Resolved By:	
Benjamin D. Kosbab		10/02/12		David Bassi	
Site/Department:		Ph.		Date:	
ENERCON/Civil		(770)590-2179		10/4/2012	


		<b>Seismic Walkdown Submittal Report          Review Comments and Resolutions Form</b>		
Engineering Report Number	RBS-CS-12-00001	Rev.	Title River Bend Station Seismic Walkdown Report for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic	
Quality Related: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Special Notes or Instructions:</b> OPs Review of SWEL		
Comment Number	Section/Page No.	Review Comment	Response/Resolution	Reviewer's Accept Initials
1		<p>If I am looking at the equip list correctly I see only 2 scram accumulators are on the list. One for water side, one for N2 side.</p> <p>Would it not be more appropriate to do inspect a percentage, say 10%?</p>	<p>Since designs were similar, it was an arbitrary decision to select only 2 scram accumulators. This was considered sufficient per consensus at the SWEL selection meeting on Sept.6. (if anyone really wants to, we can add additional accumulators to the SWEL, although 10% is probably overkill; two of each type of accumulator would be reasonable)</p> <p>Also, to clarify, there will not be just one of each of the accumulators. We plan on walking down one from each side of the RB.</p>	


2		<p>In Section 3 page 3-2 under Containment Penetrations it states that containment isolations may be considered for inclusion on SWEL 1. I do not see all the CTMT Isol valves on the list.</p> <p>What was the justification for not inspecting all the ctmt isol valves?</p>	<p>I had provided comments to add some of the HVR containment isolation valves to the list. The HVR containment isolation valves were selected since based upon their size and communication with containment atmosphere their failure was judged to have the largest impact on the Containment Integrity safety function.</p> <p>We did not explicitly list all the containment isolation valves on the base SWEL, although I did review the containment isolation table in Section 6.2 of the SAR to try to identify isolations which would be of interest for the Walkdowns.</p> <p>Note that there are a number of containment isolation valves on the base SWEL, but these usually are on the SWEL because they support a Containment Decay Heat Removal function (e.g., service water to unit coolers, RHR suppression pool cooling valves) or a Inventory Control function (e.g., ECCS injection line valves).</p> <p>Because we are starting with the IPEEE SSEL, there is not a requirement to put all containment isolation valves on the Base SWEL. I suggest making sure we have the HVR valves I identified on that list, with a footnote that the SAR Table (6.2-40 if I remember number) was reviewed to identify containment isolation valves which support the Containment Integrity safety function for inclusion in Base SWEL.</p> <p>We looked at the table in section 6.2 of the SAR when Dunkelberg was here and chose two valves. After receiving Paul's comments, I added the ones that he suggested that would be better. I think the best approach would be to say in the report that the base list also included the table from the SAR just like Paul suggested.</p>	
Reviewed By:  Jeff Reynolds		Date	Resolved By: P. Sicard/ D. Bassi	
Site/Department: OPS		Date: 10-2-12	Date: 9/26/12	
Ph. 6185				

		Seismic Walkdown Submittal Report Review Comments and Resolutions Form		
Engineering Report Number	RBS-CS-12-00001	Rev. 000	River Bend Station Seismic Walkdown Report for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic	
Quality Related: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Special Notes or Instructions: Comments apply to Walkdowns and Checklists		
Comment Number	Section/Page No.	Review Comment	Response/Resolution	Reviewer's Accept Initials
SMM1	SWC-General	Question 2: Need to describe the equipment anchorage to satisfy procedural requirements. Currently the forms are about 50/50 as to whether or not this requirement is satisfied.	Forms now describe equipment anchorage condition	W.S.
SMM2	SWC-General	Question 2: This question has a requirement to state observed anchorage. Stating only the anchorage configuration is slightly confusing for bolted anchorage as to whether or not the observed condition is acceptable. A generic statement stating anchorage is not loose, missing, or bent would provide clarification. This is an observation of a potential improvement only. Incorporation is at the author's discretion.	Forms now describe anchorage condition	W.S.
SMM3	SWC-General	Question 5: A number of the checklists reviewed only list the drawings used for verification of the anchorage. Procedure EN-DC-168 requires a brief description of the evaluation results.	Forms now describe anchorage inspection results	W.S.


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<b>Quality Related:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Special Notes or Instructions:</b> Comments apply to Walkdowns and Checklists		
Comment Number	Section/Page No.	Review Comment	Response/Resolution	Reviewer's Accept Initials
SMM4	SWC-General	General Comment: Consider adding CR/LB numbers to the SWC/AWC for conditions which were identified. This is not directly required in the procedure but would provide clarification for readers. Incorporation of this comment is not required. This is an observation of a potential improvement only.	CR & LB numbers have been added to SWEL & AWCs as required.	W.S.
WS1	Review of SWC and AWC for SWEL1-009 (CH-AOVF011)	<p>This valve is an in-line component (not anchored) yet Questions 2 and 3 are marked "Y".</p> <p>Question 4 is marked "N/A" and includes a note stating, "mounted to steel". Clarification is needed, or this statement should be removed for the in-line valve.</p>	<p>This component is anchored to the pipe, therefore inspection is still required. Question #4 is marked "N/A", as the valve is not attached to concrete. Clarified statement to read "In-line-valve, mounted to process pipe".</p>	W.S.
WS2	Review of SWC and AWC for SWEL1-018	<p>This valve is an in-line component (not anchored) yet Questions 2 and 3 are marked "Y".</p> <p>The valve yoke and motor operator penetrates floor grading. Based on review of the pictures, there is very little clearance at the grating, but no statement regarding the clearance or spatial interaction is included.</p>	<p>See comment WS1</p> <p>Opening in grating is covered with 2 piece collar, welded in place above grating opening. Approximately 3" clear around valve, so there are no interaction concerns.</p>	W.S.


		Seismic Walkdown Submittal Report Review Comments and Resolutions Form		
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Quality Related: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Special Notes or Instructions: Comments apply to Walkdowns and Checklists		
Comment Number	Section/Page No.	Review Comment	Response/Resolution	Reviewer's Accept Initials
WS3	Review of SWC and AWC for SWEL1-047 (EHS-MCC16A)	<p>The SWC is completed with status "Y", but the Comments include the following statement:  <i>Out of alignment door hinge on bucket 4D. Screw appears to be missing in buckets 5B &amp; 2A on transformers.</i></p> <p>This statement should be provided in response to Question 11 (Other Adverse Conditions), and should note if this is a seismic concern and why (or why not).</p>	<p>"Y" is marked as the status because the walkdown is complete.</p> <p>Q11 and comments were updated to include LB and CR for this seismic concern</p>	W.S.
WS4	Review of SWC and AWC for SWEL1-051 (EJS-LDC2A)	<p>The SWC is completed with status "U", but all of the questions are marked "Y". The Comments include the following statement:  <i>On the left hand side of cubical 36, there is a tie rap and small screw loose (resting on shelf) outside of the rails.</i></p> <p>This statement should be provided in response to Question 11 (Other Adverse Conditions), and should note if this is a seismic concern and why (or why not).</p>	<p>"U" was used as a placeholder and has been changed to "Y"</p> <p>See resolution for comment WS3</p>	W.S.


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<b>Quality Related:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Special Notes or Instructions:</b> Comments apply to Walkdowns and Checklists		
Comment Number	Section/Page No.	Review Comment	Response/Resolution	Reviewer's Accept Initials
WS5	Review of SWC and AWC for SWEL1-057 (ENB-CHGR1A)	The SWC is completed with status "U", but all of questions are marked "Y". The Comments include the following statement: <i>Missing 2 screws on interior mounting panel.</i> This statement should be provided in response to Question 11 (Other Adverse Conditions), and should note if this is a seismic concern and why (or why not).	See resolution for comment WS4	W.S.
WS6	Review of SWC and AWC for SWEL1-061 (ENB-SWG01A)	The SWC is completed with status "U", but all of the questions are marked "Y". Include the reason for status "U".	See resolution for comment WS4	W.S.

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Quality Related: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Special Notes or Instructions: Comments apply to Walkdowns and Checklists		
Comment Number	Section/Page No.	Review Comment	Response/Resolution	Reviewer's Accept Initials
WS7	Review of SWC and AWC for SWEL1-075 (HVK-CHL1C)	<p>Question 7 of the SWC is completed with status "Y", but the comments include the following statement:  <i>There are two lights in the area; one fixture has gage that is properly shielded from impact, the other could impact unprotected small-bore pipe attached to HVK-chlic-cond.</i>            Add discussion why the potential impact to the small bore pipe is acceptable.</p> <p>The AWC is completed with status "U", but Question 4 is marked "N" with the following statement:  <i>Strut to pipe small interference ISAS-V836 Valve and Strut area HVK-MOV20C</i>            All of the other questions are marked "Y". Therefore, the overall status should be "N".</p>	<p>Discussion was added.</p> <p>Q4 has been updated from "N" to "Y" because it was found to be an acceptable condition. Includes reference to CR. Also, this would not influence the overall status because the walkdown has been completed therefore the status is "Y".</p>	W.S.
WS8	Review of SWC and AWC for SWEL1-076 (HVK-MOV20C)	This valve is an in-line component (not anchored) yet Questions 2 and 3 are marked "Y".	See resolution for comment WS1	W.S.



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Quality Related: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Special Notes or Instructions: Comments apply to Walkdowns and Checklists		
Comment Number	Section/Page No.	Review Comment	Response/Resolution	Reviewer's Accept Initials
WS9	Review of SWC and AWC for SWEL1-081 (HVP-FN2A)	Questions 2, 3, 5 and 6 of SWC should be marked "U" instead of "Y" based on inaccessible anchors.	The responses for the mentioned Qs were changed to "U" since we could not confirm the condition of 2 of the 10 bolts. We verified this was the right way to handle this issue with Richard Drake of Entergy	W.S.
WS10	Review of SWC and AWC for SWEL1-057 (CMS-RTD4C)	The SWC answers to questions 2 and 3 should be "N/A" for inline component.	See resolution for comment WS1	W.S.
WS11	Review of SWC and AWC for SWEL2-008 (SFC-AOV31A)	The SWC answers to questions 2 and 3 should be "N/A" for inline component.	See resolution for comment WS1	W.S.
WS12	Review of SWC and AWC for SWEL2-0016 (SWP-MOV504B)	The SWC answers to questions 2 and 3 should be "N/A" for inline component.	See resolution for comment WS1	W.S.

		Seismic Walkdown Submittal Report Review Comments and Resolutions Form			
Engineering Report Number	RBS-CS-12-00001	Rev. 000	River Bend Station Seismic Walkdown Report for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic		
Quality Related: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Special Notes or Instructions: Comments apply to Walkdowns and Checklists			
Comment Number	Section/Page No.	Review Comment	Response/Resolution	Reviewer's Accept Initials	
WS13	All AWCs	Verify that AWCs which associated with multiple components correctly lists all components on the form.	Completed	W.S.	
Reviewed By:	<i>Winston Stewart / W.S.</i>		Date	<i>11/14/2012</i>	Resolved By: J. Dunkelberg/D. Bassi
Site/Department:		Ph.		Date: 10/16/12	

 Seismic Walkdown Submittal Report Review Comments and Resolutions Form				
Engineering Report Number	RBS-CS-12-00001	Rev.	Title	
		0000	River Bend Station Seismic Walkdown Report for Resolution of Fukushima NTTF 2.3: Seismic	
<b>Quality Related:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Special Notes or Instructions:</b> Comments apply to LBE review				
Comment Number	Section/Page No.	Review Comment	Response/Resolution	Reviewer's Accept Initials
1	General, LBE (10/31/12)	Recall that an LBE is intended to compare an observed condition with existing documentation to determine whether the condition is consistent with the seismic licensing basis or not. If not, then a CAP entry is required. Further evaluation of the condition (including operability evaluation, extent of condition, root cause analysis, etc.) is treated within the plant CAP (not the LBE). Here, it appears that many of the LBEs performed evaluate the condition further than intended by the LBE, to ultimately judge whether the condition identified is deficient technically or not. Suggest that this more in-depth evaluation be removed from the LBE and incorporated into the CAP process CR resolutions.	LBEs have been modified to meet the intent described in the EPRI Guidance, and to make greater use of the CAP process for disposition and tracking.	BDK
2	General, LBE (10/31/12)	The LBE "Conclusion" determines whether a CAP entry is required or not. Potentially adverse seismic conditions which do not "pass" an LBE in the context of licensing basis documentation (see comment 1) should be marked with "No" with reference to an associated CR generated.	LBE conclusions have been reviewed in conjunction with resolution of comment 1, and now follow the supplemental guidance of this comment.	BDK
3	General, LBE (10/31/12)	An LBE should be initiated whenever an SWC/AWC question is marked "N", unless the condition is sent directly to the plant CAP. Likewise, an LBE is not an appropriate tool for "non-seismic" conditions identified during the walkdowns which should be sent directly to the CAP – the LBE tool is specific for the NTTF 2.3: Seismic program.	SWCs and AWCs have been reviewed to ensure that each potentially adverse seismic condition identified during the NTTF 2.3: Seismic program is properly documented on the checklist and has a corresponding LBE where appropriate.	BDK

4	General, LBE (11/12/12)	<p>The first step of an LBE, per EPRI Guidance Section 5, is to determine the current licensing basis for the plant as it relates to the seismic adequacy of the equipment. Specifically, this should be done in the context of the identified potentially adverse seismic condition being evaluated. In several cases, this summarized "Licensing Basis" in the LBEs could be improved for clarity of intent.</p>	<p>LBE "Licensing Basis" summaries have been revised for clarity where possible, concisely stating the contextual licensing basis to allow the "Evaluation" to transparently conclude whether the licensing basis is met or not.</p>	BDK
Reviewed By:	Benjamin D. Kosbab	Date	Resolved By: John Dunkelberg	
Site/Department:	ENERCON/Civil	Ph. 770-590-2179	Date: 11/14/12	

# Attachment I

## Seismic Walkdown Engineer Training Certificates

### List of Certificates

<b>SWE</b>	<b>Capacity</b>	<b>Page</b>
John Dunkelberg	Walkdown Engineer	2
Jose Cardona	Walkdown Engineer	3
Brandon Nissing	Walkdown Engineer	4
David Bassi	Walkdown Engineer	5
Jason Halsey	Walkdown Engineer	6
Matt Keeney	Walkdown Engineer	7
Amar Dalawari	LB Reviewer	8
Benjamin Kosbab	Walkdown Peer Reviewer	9
Winston Stewart	Walkdown Peer Reviewer	10
Shawn McFarland	Walkdown Peer Reviewer	11
Alex Smerch	Trainer	12
Kenneth Whitmore	Trainer	13
Kevin Bessell	Trainer	14
Kursat Kinali	Trainer	15



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# Certificate of Completion

is hereby granted to

# John Dunkelberg

for successful completion of

**TRAINING ON NEAR TERM TASK FORCE  
RECOMMENDATION 2.3  
*PLANT SEISMIC WALKDOWNS***

Awarded: 9/13/2012 in Mt. Arlington, NJ

A handwritten signature in black ink, appearing to read "Kevin Bessell".

Kevin Bessell

Certified Seismic Walkdown Engineer  
Palo Alto, CA – 6/13/2012

A handwritten signature in black ink, appearing to read "Alex Smerch".

Alex Smerch

Certified Seismic Walkdown Engineer  
Palo Alto, CA – 6/13/2012



# *Certificate of Completion*

## **Jose Cardona**

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

July 19, 2012

\_\_\_\_\_  
Date

*R.P. Kassawara*

\_\_\_\_\_  
Robert K. Kassawara  
EPRI Manager,  
Structural Reliability & Integrity



# *Certificate of Completion*

## **Brandon Nissing**

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

July 19, 2012

\_\_\_\_\_  
Date

*R.P. Kassawara*

\_\_\_\_\_  
Robert K. Kassawara  
EPRI Manager,  
Structural Reliability & Integrity





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# Certificate of Completion

is hereby granted to

# David Bassi

for successful completion of

**TRAINING ON NEAR TERM TASK FORCE  
RECOMMENDATION 2.3  
PLANT SEISMIC WALKDOWNS**

August 22, 2012 – Kennesaw, GA

Date – Location

A handwritten signature in black ink, reading "Kursat Kinali".

**Kursat Kinali, Ph.D., P.E.**

EPRI Certified Seismic Walkdown Engineer  
Alexandria, VA – 7/27/2012



# *Certificate of Completion*

## **Jason Halsey**

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

July 27, 2012

Date

*R.P. Kassawara*

Robert K. Kassawara  
EPRI Manager,  
Structural Reliability & Integrity



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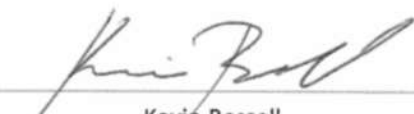
is hereby granted to


# Matt Keeney

for successful completion of

**TRAINING ON NEAR TERM TASK FORCE  
RECOMMENDATION 2.3  
*PLANT SEISMIC WALKDOWNS***

Awarded: 7/11/2012 in Kennesaw, GA

  
\_\_\_\_\_  
Kevin Bessell  
Certified Seismic Walkdown Engineer  
Palo Alto, CA – 6/13/2012

  
\_\_\_\_\_  
Kenneth Whitmore  
Certified Seismic Walkdown Engineer  
Alexandria, VA – 6/20/2012





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is hereby granted to

# Amar Dalawari

for successful completion of

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RECOMMENDATION 2.3  
*PLANT SEISMIC WALKDOWNS***

Awarded: 9/13/2012 in Mt. Arlington, NJ

A handwritten signature in black ink, appearing to read "Kevin Bessell", written over a horizontal line.

Kevin Bessell  
Certified Seismic Walkdown Engineer  
Palo Alto, CA – 6/13/2012

A handwritten signature in black ink, appearing to read "Alex Smerch", written over a horizontal line.

Alex Smerch  
Certified Seismic Walkdown Engineer  
Palo Alto, CA – 6/13/2012



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# Certificate of Completion

is hereby granted to

# Benjamin Kosbab

for successful completion of

## TRAINING ON NEAR TERM TASK FORCE

## RECOMMENDATION 2.3

## *PLANT SEISMIC WALKDOWNS*

Awarded: 7/11/2012 in Kennesaw, GA

A handwritten signature in black ink, appearing to read "Kevin Bessell", written over a horizontal line.

Kevin Bessell  
Certified Seismic Walkdown Engineer  
Palo Alto, CA – 6/13/2012

A handwritten signature in black ink, appearing to read "Kenneth Whitmore", written over a horizontal line.

Kenneth Whitmore  
Certified Seismic Walkdown Engineer  
Alexandria, VA – 6/20/2012



# *Certificate of Completion*

## **Winston Stewart**

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

June 21, 2012

\_\_\_\_\_  
Date

*R.P. Kassawara*

\_\_\_\_\_  
Robert K. Kassawara  
EPRI Manager,  
Structural Reliability & Integrity





# *Certificate of Completion*

## **Shawn McFarland**

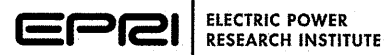
### **Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns**

July 27, 2012

\_\_\_\_\_  
Date

*R.P. Kassawara*

\_\_\_\_\_  
Robert K. Kassawara  
EPRI Manager,  
Structural Reliability & Integrity



# *Certificate of Completion*

## **Alex Smerch**

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

June 13, 2012

\_\_\_\_\_  
Date

*R.P. Kassawara*

\_\_\_\_\_  
Robert K. Kassawara  
EPRI Manager,  
Structural Reliability & Integrity





# *Certificate of Completion*

## **Kenneth Whitmore**

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

June 21, 2012

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Date

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EPRI Manager,  
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# *Certificate of Completion*

## **Kevin Bessell**

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

June 13, 2012

\_\_\_\_\_  
Date

*R.P. Kassawara*

\_\_\_\_\_  
Robert K. Kassawara  
EPRI Manager,  
Structural Reliability & Integrity



# *Certificate of Completion*

## **Kursat Kinali**

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

July 27, 2012

\_\_\_\_\_  
Date

*R.P. Kassawara*

\_\_\_\_\_  
Robert K. Kassawara  
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