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Revision	Description of Change
000	Initial Issue
001	Report revised to include inspection of deferred items prior to and during RFO-17. Removed Section 6.3. Added Attachments J and K. Added content to Section 9.0 for Peer Review items. Other misc. changes denoted with revision bar.

# **River Bend Station Seismic Walkdown Report**

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

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#### 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>	Х	Х		
Brandon Nissing <sup>3</sup>	Х	Х		
Jeff Reynolds <sup>1</sup>	Х			
Paul Sicard <sup>4</sup>	Х			
John Dunkelberg (ENERCON)	Х	X <sup>2</sup>	Х	Х
David Bassi (ENERCON)	Х	Х		Х
Matt Keeney (ENERCON)		Х		
Jason Halsey (Structural Integrity)		Х		
Amar Dalawari (ENERCON)		Х	Х	

# 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>	Х	X <sup>1,2</sup>	X <sup>1,2</sup>	
Bivins Calhoun (ENERCON)	Х				
Shawn McFarland (Structural Integrity)		X			
Winston Stewart (ENERCON)		X <sup>2</sup>	Х		
David Bassi (ENERCON)					Х
Pete Peterson (ENERCON)				Х	

#### 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 is 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 are 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 INACCESIBLE ITEMS ON SWEL

(Deleted)

#### 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 initially conducted over the course of 2 weeks during October of 2012. Walkdowns and area walk-bys were also conducted in the February and March of 2013 (prior to and during RFO-17) for eleven (11) items that were inaccessible during the initial inspection. 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 identify potential 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). 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 has been completed and is included in Attachments C or J. A total of 126 SWCs are attached. Revision 000 of the report listed the SWC for SWEL1-060 as marked "N" in Attachment C. During the initial phase of walkdowns, this item could not be fully accessed. Therefore, the walkdown of SWEL1-060 was completed during RFO-17. The SWC was marked "Y" and moved to Attachment J.

During the inspections in RFO-17, it was necessary to change the components to be inspected for SWEL1-003 and 1-004, as shown in the table below:

Component ID	Rev. 000	Rev. 001
SWEL1-003	B21-RVF041D	B21-RVF041A
SWEL1-004	B21-RVF047B	B21-RVF047C

The above components are Main Steam Line Safety Relief Valves (SRVs). Both components were changed due to restricted access to the valves. The walkdown team attempted to inspect the original SRVs multiple times; however access was restricted due to ongoing outage maintenance activities or the valves being in various stages of disassembly for replacement.

There are a total of 16 SRVs installed in the Drywell of the plant listed in Table B.1 of Attachment B that are all essentially identical and provide the same function. The two above components from Rev. 000 were replaced with similar SRVs.

These changes were made when it was determined that specified component IDs were not available or accessible for inspection. The changes had no impact on the diversity requirements of equipment specified by the Guidance and described in Section 6.

# 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). 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 64 area walk-bys were performed to cover all plant areas containing at least one accessible SWEL item.

The AWC for each area walk-by has been completed and is included in Attachment D or K. A total of 64 AWCs are attached.

#### 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. 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

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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, including the two changes identified in Section 7.1 which occurred during follow-up walkdowns in RFO-17.

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 initial 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. A sample of Seismic Walkdown and Area Walk-By checklists completed prior to and during RFO-17 were reviewed by the Peer Review Team Leader to confirm that the SWE teams maintained the process and documentation that was observed during the initial Seismic Walkdowns and Area Walk-Bys. 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 27 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 1-003	B21-RVF041A	MAIN STM LINE AUTO DEPRESSURIZATION	7	DW
	SYS PRESSURE RELIEF VLV			
SWEL 1-009	C11-AOVF011	SCRAM DISCH VOL VENT & DRAIN AZ-174,	7	RB
SWEL 1-014	E12-EB001A	EL-119 CONTAINMENT RHR HEAT EXCHGR A	21	AB
SWEL 1-018	E12-MOVF048A	RHR A HX SHELL SIDE BYPASS VALVE	8	AB
SWEL 1-013	E22-EGS001	HPCS DIESEL GENERATOR DIESEL ENG	17	DG
SWEL 1-026	E22-PC001	HPCS MOTOR FEEDER	6	AB
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	СВ
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 BATRY BANK 1A CHARGER 1A	16	СВ
SWEL 1-061	ENB-SWG01A	125V DC SWITCHGEAR 1A	2	СВ
SWEL 1-064	H22-P004	RX VSL LEVEL AND PRESS LOCAL PNL A	18	RB
SWEL 1-075	HVK-CHL1C	HVKC01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1C	11	СВ
SWEL 1-076	HVK-MOV20C	CNTRL BLDG CHILLED WTR PMP 1C DISCH MTR OPERATED ISOL VLV	8	СВ
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 1-100	SWP-FN1B	STANDBY COOLING TWR 1	9	SCT
SWEL 1-115	CMS-RTD040C	CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	19	RB

SWEL Number	Equipment ID	Description	Class	Location
SWEL 1-003	B21-RVF041A	MAIN STM LINE AUTO DEPRESSURIZATION	7	DW
3VVEL 1-003	D21-RVF041A	SYS PRESSURE RELIEF VLV	'	
SWEL 1-009 C11-AOVF011		SCRAM DISCH VOL VENT & DRAIN AZ-174,	7	RB
3VVEL 1-009	CTT-AOVFUTT	EL-119 CONTAINMENT	/	KD
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 27 areas represent approximately 50% of the different areas (buildings) containing at least one SWEL item.

Table 9-2 Peer Reviewed AWCs

AWC#	Plant Area	SWC#
AWC-1001	DW	SWEL 1-003
AWC-1009	RB	SWEL 1-009
AWC-1014	AB	SWEL 1-014
AWC-1018	AB	SWEL 1-018
AWC-1023	DG	SWEL 1-023
AWC-1026	AB	SWEL 1-026
AWC-1028	СВ	SWEL 1-028
AWC-1029	СВ	SWEL 1-029
AWC-1035	AB	SWEL 1-035
AWC-1036	СВ	SWEL 1-036
AWC-1047	SCT	SWEL 1-047
AWC-1051	AB	SWEL 1-051
AWC-1057	СВ	SWEL 1-057
AWC-1061	СВ	SWEL 1-061
AWC-1064	RB	SWEL 1-064
AWC-1075	СВ	SWEL 1-075
AWC-1076	СВ	SWEL 1-076
AWC-1080	DG	SWEL 1-080
AWC-1081	DG	SWEL 1-081
AWC-1084	RB	SWEL 1-084
AWC-1087	AB	SWEL 1-087

AWC-1089	FB	SWEL 1-089
AWC-1091	RB	SWEL 1-091
AWC-1100	SCT	SWEL 1-100
AWC-1115	RB	SWEL 1-115
AWC-2008	FB	SWEL 2-008
AWC-2016	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 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 (IPEE) 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 J – DEFERRED SEISMIC WALKDOWN CHECKLISTS (SWCs)

ATTACHMENT K – DEFERRED AREA WALK-BY CHECKLISTS (AWCs)

# Attachment A IPEEE Vulnerabilities

/ULNERABILITIES TABLE
ATTACHMENT A IPEE

FUKUSHIMA NEAR – TERM TASK FORCE RECOMMENDATION 2.3 SEISMIC WALKDOWNS

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

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

Reviewed by: David Bassi

Date: 10-22-2012

## Attachment B Seismic Walkdown Equipment Lists

List of Ta	bles	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

Equipment Selection Personnel

Date: 5-24-13

Equipment Selection Personnel

Date: 5-24-13

Peer Reviewer

Concurrence by: Jeff Reynolds

Operations Personnel

MAIN STM LINE INBRD ISOL VLV A MAIN STM LINE INBRD ISOL VLV B		Configuration Inspections	Maintains at least 1 of the 5 safety functions	Replaced	IPEEE	Inside/Outside (I/O)	High Temp/Humidity (T/H)	Borated System	React
MAIN STM LINE INBRD ISOL VLV B	>	z	>	z	A/N	-	H/T	z	
	<b>→</b>	z	· >-	z	N/A	_	H/T	z	
MAIN STM LINE INBRD ISOL VLV C	*	Z	Υ	z	N/A	_	T/H	z	
MAIN STM LINE INBRD ISOL VLV D	>- ::	z	>- :	z	Α/N	_	T/H	z	
MAIN STM LINE OUTBRD ISOL VLV A	>->	z	>- >	z	ΨZ.	_	Ξ:	z	
MAIN STM INE OUTBRD ISOL VLV B	<b>→</b> >	<b>z</b> z	<b>&gt;</b>	<b>z</b> z	<b>∀</b> ×	_	<b>E</b> 3	<b>z</b> z	
MAIN STAILINE OUTBRD ISOLVIV D	>-	zz	- >-	zz	Z Z	-	= =	zz	
MAIN STM LINE A PRESS RELIEF VLV	<b>&gt;</b>	z	<b>&gt;</b>	z	N/A	_	H/T	z	
MAIN STM LINE B PRESS RELIEF VLV	>	z	>	z	N/A	-	T/H	z	
MAIN STM LINE C PRESS RELIEF VLV	>- :: ::	z	>- :	z	ĕ,	_	T/H	z	
MAIN SIM LINE D'PRESS RELIEF VLV	<b>&gt;</b>	zz	>->	zz	Ψ×.	- -	H/I	zz	
MAIN STM I INF G PRESS RELIEF VLV	<b></b>	zz	<b>&gt;</b>	zz	Α/N Α/Ν	-	H/L	zz	
MAIN STM LINE L PRESS RELIEF VLV	<b>&gt;</b>	z	- >-	z	N/A	-	H/T	z	
MAIN STM LINE A AUTO DEPRESSURIZATION SYS PRESS RELIEF VLV	*	Z	Υ	z	N/A		T/H	z	
MAIN STM LINE B AUTO DEPRESSURIZATION SYS PRESS RELIEF VLV	>	Z	<b>\</b>	z	N/A	-	H/T	z	
MAIN STM LINE C AUTO DEPRESSURIZATION SYS PRESS RELIEF VLV	<b>&gt;</b> :	z	<b>&gt;</b> :	z	A/A	_	H/T	z	
MAIN STM LINE D'AUTO DEPRESSONIZATION SYS PRESS RELIEF VLV MAIN STM TINE E ALITO DEDBESSI IDIZATION SYS DDESS DELIEF VI V	<b>→</b> >	zz	>->	zz	A/N	-  -	H/H	zz	
MAIN STM LINE B PRESS RELIEF VLV	<b>&gt;-</b>	zz	- >-	zz	₹ Z	-	H/L	zz	
MAIN STM LINE C PRESS RELIEF VLV	<b>X</b>	Z	Α.	z	N/A	_	T/H	z	
MAIN STM LINE D PRESS RELIEF VLV	>	Z	λ	z	N/A	_	H/T	z	
MAIN STM LINE G PRESS RELIEF VLV	>-	z	>- >	z	ĕ,	_	H/L	z	
SCRAM ACCUMULATOR - WATER SIDE	->	zz	- >-	zz	ξ/X	- -	c I	zz	××
SCRAM DISCHARGE VOLUME VENT VALVE	·	z	·	z	N/A		Т	z	×
SCRAM DISCH VOL VENT & DRAIN AZ-174, EL-119 CONTAINMENT	>	Z	Υ	z	N/A	_	Ŧ	z	×
SCRAM DISCH VOL VENT & DRAIN (AZ - 60? - 142') CONTAINMENT BLDG	<b>&gt;</b> :	z	<b>&gt;</b> >	z	Ψ/N	_	<b>I</b>	z	×
SCRAM DISCHARGE VOLUME DRAIN VALVE	<b>&gt;</b>	z <b>z</b>	<b>&gt;</b>	<b>z</b> >	4/Z	_	I 3	z <b>z</b>	××
SCRAM PILOT VLVS INSTR AIR SPLY LINE 3-WAY SOLENOID VLV	->-	zz	- >-	- z	₹ X	-	= =	zz	×
SCRAM PILOT VLVS INSTRAIR SPLY LINE 3-WAY SOLENOID VLV	·	z	·	z	N/A		Т	z	×
SCRAM AIR HDR(AZ - 176? - 119')	>	Z	Υ.	<b>\</b>	N/A	-	Ŧ	z	×
RHR HEAT EXCHGR A	<b>&gt;</b>	z	> 1	z	N/N	_		z	
RHR HEAT EXCHGR B	<b>&gt;</b>	z	>	z	N/A	_		z	
RHR HEAT EXCHGR C	>	z	<b>&gt;</b>	z	N/A	_		z	
RHR HEAT EXCHGR D	>	z	>	z	N/A	_		z	
RHR PUMP A SUPPR POOL SUCTION VLV	<b>&gt;</b>	z	<b>&gt;</b>	z	N/A	-		z	
RHR Supp.Pool suction valve (EC37335)	<b>&gt;</b>	z	>	z	N/A	-		z	
RHR A TEST RETURN TO SUPP POOL	> :	z	>- :	z	V/Α	_		z	
RETURN VALVE TO SUPPRESSION POOL	> ;	z :	> ;	z :	A/N	_ .		z :	
RHR A HX SHELL SIDE BYPASS VALVE	<b>&gt;</b>	z	>	z	A/A	_		z	
HEAT EXCHANGER BYPASS VALVE	> ;	z :	>- ;	z :	A/N	_ .		z :	
RHR PUMP A MIN FLOW TO SUPPR POOL	<b>&gt;</b>	z	<b>&gt;</b> >	z	A/N	-  -		z	
RHR min flow valve (EC37335)	<b>&gt;</b>	z 2	>- >	zz	A/N	- -		zZ	
RHR A HX COULING OUTLET MOV	<b>&gt;</b>	z <b>z</b>	<b>≻</b> >	Z 2	<b>4/2</b>	_		z z	
DESIDITAL DEAT DEMOVAL DMD 3A	>	z 2	- >	Z 2	Y/N	-   -		z z	
DED "D" DIMD	- >	2 2	- >	<b>z</b> z	Z/N	-		ZZ	
IN. IFCTION VAI VE	- >-	zz	- >-	zz	₹ ×	-   -		zz	
LPCS PUMP MIN FLOW TO SUPPR POOL	>	z	>	z	N/A	_		z	
LPCS PUMP	*	z	Υ.	z	N/A	_		z	
HPCS DIESEL GENERATOR DIESEL ENG	<b>&gt;</b>	z	*\	z	N/A	_		z	
HPCS DG COOLER	> :	z	*	z	N/A	_		z	
CNDS STOR TK 1CNS-TK1 FG-5-71"F" TUNNEL	· ·	z	> ;	z	A/N	_ -		z	
CONDS STOR TK 1CNS-TK1FG-5-71" F" TUNNEL	<b>&gt;</b>	z	<b>&gt;</b> >	z	A/N	-  -		z	
HPCS SUCTION FROM CST MOV	<b>&gt;</b>	zz	<b>&gt;</b>	2 2	A/N	- -		zZ	
HPCS INJECTION MOV	>	z z	- >	zz	Ψ/N	-   -		zz	
SUPPRESSION POOL PUMP SUCTION VALVE	- >-	zz	- >-	z	Ψ/N	-   -		zz	
HPCS MOTOR FEEDER	· >	z	- >-	z	A/N	-		z	
125V DC PANEL DIV III	· >-	z	. *	z	A/A	-		z	
125V DC DIV III BATTERY	۶	z	*\	z	N/A	_		z	
125V DC DIV III BATTERY CHARGER	>	z	*\	z	N/A	_		z	
	*	z	*\	z	N/A	_		z	
HPCS TRANSFORMER FEEDER	٨	Z	γ*	Z	N/A	-		z	
DIV III 4160V AC SWITCHGEAR	>	Z	*\	z	N/A	_		z	
DIESEL 1C AIR START RECEIVER TNK	<b>&gt;</b> :	z	*	z	N/A	_		z	
DIESEL 1C AIR START RECEIVER TNK	· ;	z :	*.	z :	A/N	_ .		z	
RX CORE ISOL CLG TURB LUBE OIL CLR	<b>\</b>	Z	¥ ::	z	N/A	_		z	

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V IV IOSI V IQS MT8 BGIIT O IO IOSI GROUNA	>	z	>	2	N/A	-		z	
RCIC LUBE OIL COOLER VALVE	<b>-</b> >-	z	- >-	z	N/A	- -		z	
RX CORE ISOL CLG PMP	٨	z	٨	z	N/A	-		z	
RCIC TURB GOVERNOR PNL	>	z	<b>&gt;</b>	>	N/A	_		z	
RX CORE ISOL CLG TURB	> :	z	> 3	z	A/N	_ -		z	
SDG AIR START SYS AIR RECEIVER TK 1A	> >	zz	*- *>	zz	Ψ/Z	_ -		zz	
SDG AIR START SYS AIR RECEIVER IN 1B	- >	z <b>z</b>	- *	z <b>z</b>	<b>4/2</b>	-   -		z <b>z</b>	
SDG AIR START SYS AIR RECEIVER TK 1D	- >-	z	- *>	z	¥/Z	- -		z	
SDG AIR START SYS AIR RECEIVER TK 2A	<b>\</b>	z	*\	z	N/A	_		z	
SDG AIR START SYS AIR RECEIVER TK 2B	>-	z	*\	z	N/A	_		z	
SDG AIR START SYS AIR RECEIVER TK 2C	> >	z	*	z	A/N	_ -		z	
SDG AIR START SYS AIR RECEIVER TK 2D	> >	z	*> 3	z	N/A	_ -		z	
DIVIDG EXCITER CABINET	<b>&gt;</b> >	<b>z</b> z	* *	<b>z</b> 2	Y/A	_ -		<b>z</b> 2	
DIV II DG EACH ER CABINET	- >	z <b>z</b>	- *	z <b>z</b>	<b>4/2</b>	-   -		z <b>z</b>	
FUEL OIL TRANSFER PUMP	· >-	z	*>	z	₹ X	-   -		z	
FUEL OIL TRANSFER PUMP	· >-	z	*	z	N/A	_		z	
DIESEL 1A FUEL STORAGE (7 DAY)	>	z	*\	z	N/A	_		z	
DIESEL 1B FUEL STORAGE (7 DAY)	Υ .	z	*\	z	N/A	_		z	
DIESEL 1C FUEL STORAGE (7 DAY)	>	z	*\	z	N/A	_		z	
SDG FUEL OIL DAY TK A	>	z	*\	z	N/A	_		z	
SDG FUEL OIL DAY TK B	>- >	z	* > >	z	A/N	- -		z	
SDG FUEL OIL DAY TK C	>	zz	* *	z	A/N	_ -		z	
SUDG AENGINE	- >	<b>z</b> z	*>	zz	Z/Z	-		<b>z</b> z	
SDG CLG SYS JACKET WTR CLR A	- >-	zz	- *-	zz	Ψ.X	-   -		zz	
SDG CLG SYS JACKET WTR CLR B	· >-	z	* *	z	N/A	. -		z	
STANDBY SWGR RM 1A 480V MCC14A	>	z	*\	z	N/A	_		z	
STANDBY SWGR RM 1B 480V MCC14B	<b>\</b>	z	*\	z	N/A	_		z	
DIESEL GEN RM AMCC15A	<b>\</b>	z	*\	z	N/A	_		z	
DIESEL GEN RM B MCC15B	> ;	z:	*- 3	z	ΑΝ	_ .	:	z	
STANDBY COOLING TOWER FAN ENTRY SAMENTER TO STANDBY COOLING TOWER FAN ENTRY	<b>&gt;</b>	<b>z</b> z	*>	zz	A/A	_	r I	<b>z</b> z	
480V AC MOTOR CONTROL CENTER	- >-	zz	- >-	zz	N/A	-	=	zz	×
EHS-MCC2B AUX BLDG	<b>&gt;</b>	z	>	z	N/A	-		z	×
480V AC MOTOR CONTROL CENTER	٨	Z	Υ .	z	N/A	_		Z	
480V AC MOTOR CONTROL CENTER	>	z	> :	z	N/A	_		z	
480V AC MOTOR CONTROL CENTER	>- 3	z :	>- :	z	A/N	_		z :	
480V AC MOTOR CONTROL CENTER	>	zz	>	zz	A/N	_  -		zz	
480V AC MOTOR CONTROL CENTER	- >	zz	- *>	zz	A/N	-   -		zz	
AUXILIARY BUILDING MCC2L	· >	z	*	z	N/A	-   -		z	
480V AC MOTOR CONTROL CENTER	· >-	z	*	z	N/A	.   _		z	
480V AC MOTOR CONTROL CENTER	>	z	*\	z	N/A	_		z	
REMOTE SHUTDOWN SYSTEM CONTROL POWER: 1HVP*FN2A, 1EJS*ACB	>	z	*	z	N/A	_		z	
LOAD CENTER 1B (EJS-SWG1B)	> ;	z:	* :	z	A/N	_ .		z :	
REMOTE SHUTDOWN SYSTEM CONTROL POWER: 1HVR*UC11A,1HVR*UC1A	<b>&gt;</b>	<b>z</b> z	* *	<b>z</b> z	<b>4</b> / <b>2</b>	-		<b>z</b> z	
STANDBY SWGR RM 1A 480V SWG1A	<b>&gt;</b>	z	*	z	A/N	-   -		z	
STANDBY SWGR RM 1B 480V SWG1B	>	z	*\	z	N/A	_		z	
STANDBY SWGR ROOM 1A SWGR 1A PWR XFORMR 1A	<b>\</b>	z	٨*	z	N/A	_		z	
4.16KV/480V XFMR	> ;	z:	* :	z	∀/N	_ .		z	
AUX BLDG STANDBY SWGR 2A PWR XFORMR	<b>&gt;</b> >	zz	**	<b>z</b> 2	A/A	_ -		<b>z</b> 2	
4.16kv - 480 v transformer	<b>≻</b> >	z <b>z</b>	* *	z <b>z</b>	A/N	-  -	1	z <b>z</b>	
4.16KV/480V XFMR	<b>-</b> >-	zz	*>	z	N/A	-	<b>= =</b>	ZZ	
STANDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATTERY BANK 1A	٨	Z	٨*	z	N/A	_		z	
STANDBY 125 V DC BATTERY B	٨	Z	*\	z	N/A	_		Z	
DBY BU	<b>&gt;</b> :	z	*	z	N/A	_		z	
STANDBY BATTERY CHARGER B	> >	z	* *	z	A/N	_ -		z	
END-INVOID VITAL BUS A INVERTIER	>	<b>z</b> 2	* *	<b>&gt;</b>	<b>∀</b> ××××××××××××××××××××××××××××××××××××	-		<b>z</b> z	
MTR CNTRI CENTER 1	- >-	zz	_ >	- z	X X	-		zz	
	>	z	*	z	N/A	_		z	
STANDBY BUS B 125 VOLTS DIRECT CURRENT SYS PWR DISTRUBTION PNL 02	>	z	*\	z	N/A	_		z	
125V DC SWITCHGEAR 1A	>	z	**	> 1	N/A	-		z	
LETANIDO DI DE 1925 VOI TO DIFFOT OF DIDDENIT OVO CANOD 04D	>	Z	*>	>	NIA	_		Z	

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RPS LOGIC DIV B	>	z	>	z	₹X	_		z	×
RPS LOGIC DIV C	>	z	<b>&gt;</b>	z	N/A	_		z	×
RPS LOGIC DIV D	>	z	<b>&gt;</b>	z	N/A	_		z	×
RX VSL LEVEL AND PRESS LOCAL PNL A	<b>\</b>	z	7	z	A/N	_	I	z	×
RX VSL LEVEL AND PRESS LOCAL PNL C	Υ	z	Υ	z	N/A	_	Ŧ	Z	×
RX VSL LEVEL AND PRESS LOCAL CNTRL PNL D	<b>&gt;</b> :	Z	<b>&gt;</b>	z	N/A	Ī	I	Z	×
	>	z <b>z</b>	> 3	z	Ψ/N	_ -	I	z	×
CONTROL ROOM AIR HLDG UNIT ACUTA	>	<b>z</b> 2	* *	<b>z</b> z	<b>4</b> § 2	-		<b>z</b> 2	
I BI DG AIR HI DG IINIT AC	- >	z <b>z</b>	- *	z <b>z</b>	<b>4/2</b>	-   <b>-</b>		z <b>z</b>	
CONTROL BLDG AIR HLDG UNIT ACU2B	- >-	zz	*>	z	₹ X	-  -		zz	
ιш	<b>&gt;</b>	z	*	z	N/A	_		z	
CHILLER EQUIPMENT ROOM CHILLER	>	z	*	z	N/A	_		z	
1HVC*ACU2A AIR OUTLET (CD-2-89")	٨	Z	٨*	z	N/A	_		N	
AIR OPERATED DAMPER "B" AIR CONDITIONING	Υ	Z	٨*	z	N/A	-		Z	
AIR OPERATED DAMPER "A" AIR CONDITIONING	>	Z	*	z	N/A	_		z	
AIR OPERATED DAMPER "B" AIR CONDITIONING	> >	z	* >	z	A/N			z	
AINOSENDE AID INITET (CA 2 00)	<b>&gt;</b>	z <b>z</b>	*- *	z	A/N	_ -		z	
THYCFACINA AIR OLITIET (CA-2-80)	- >	ZZ	* *	zz	K/N	-   -		zz	
CNTRI RIDG AIR CONDITIONING INIT 48 INTAKE ISOLAIR OBERATED DMPP	- >	<b>z</b> z	- *	Z	<b>4</b> /V			ZZ	
1HVC*ACU18 AIR OUTLET (CD-1-130)	·   >-	zz	*	z	₹ Z	_		z	
1HVC*ACU1B AIR INLET (CJ-1-115')	<b>\</b>	Z	*\	z	N/A	ı		Z	
CONTROL ROOM AIR HLDG UNIT HEATER CH1A	٨	Z	*\	Z	N/A	ı		Z	
CONTROL ROOM AIR HLDG UNIT HEATER CH1B	> :	z	*- :	z	₹/Z	_		z	
CNTRL BLDG BATTERY ROOM 1A COIL HTR	<b>&gt;</b> >	z	**	z	A/N			z	
CNTRL BLDG BATTERY ROOM 18 COLL HTR	>	z z	*- *	zz	A/N	_		z	
CNIKL BLUG BATIERY ROOM 1C COLL HIR	<b>-</b> >	2 2	*- *	z <b>z</b>	A/N	_  -		z	
STBY SWGK REIDKN FAN	>	<b>Z</b> Z	*>	<b>z</b> z	<b>4/2</b>	-		<b>z</b> z	
SIBT SWORKEIORN FAN BATTERY BOOM 14 FYHAIIST FAN	- >	zz	- *	zz	Z A/N			z	
BATTERY ROOM 18 EXHAUST FAN	· >-	zz	*	z	N/A			z	
BATTERY ROOM 1C EXHAUST FAN	Υ	Z	٨*	z	N/A	_		Z	
BATTERY ROOM 1A EXHAUST FAN	Υ	Ν	*Α	Ν	N/A	ı		N	
BATTERY ROOM 1B EXHAUST FAN	>	z	*.	z	N/A	_		z	
BATTERY ROOM 1C EXHAUST FAN	>	Z	*	z	N/A	_		z	
HVKA1 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1A	> ;	z	*	z :	∀N.	_		z :	
HVKB01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1B	> ;	z:	*	z :	∀/N	_ -		z :	
HVKC01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1C	<b>&gt;</b>	<b>z</b> 2	** *	<b>z</b> 2	A/N	-		<b>z</b> 2	
HVKDU I CON I KOL BLDG CHILLED WATER COMPRESSOR CHLID	- >	ZZ	*	z z	4/N	-   -		z z	
CNTRL BLDG CHILLED WTR PMP 1B DISCH MTR OPERATED ISOL VLV	- >-	zz	- *>	zz	₹ X	-   -		zz	
CNTRL BLDG CHILLED WTR PMP 1C DISCH MTR OPERATED ISOL VLV	>	Z	*	z	N/A	_		z	
CNTRL BLDG CHILLED WTR PMP 1D DISCH MTR OPERATED ISOL VLV	<b>&gt;</b>	z	*\	z	N/A	_		z	
1HVK*P1A CONTROL BLDG CHILLED WATER PUMP	٨	Z	٨*	z	N/A	_		N	
1HVK*P1B CONTROL BLDG CHILLED WATER PUMP	Υ	Z	*\	z	N/A	1		Z	
1HVK*P1C CONTROL BLDG BACK-UP CHILLED WATER PUMP	> :	Z	*- :	z	N/A	_		z	
1HVK*P1D CONTROL BLDG BACK-UP CHILLED WATER PUMP	> ;	z	*- 3	z	Ψ/N	_		z	
CNITCL BLUG CHILLED WIT SURGE IN 1A	- >	<b>z</b> z	*>	<b>z</b> z	<b>4</b> / <b>2</b>	-		<b>z</b> z	
DSL GEN CONT RM A AIR SPLY (DC-3-131')	>	z	*	z	A/N	_		z	
DSL GEN CONT RM B AIR SPLY (DC-1-131")	>	z	*\	z	N/A	_		z	
N CONT RM CAIR SPLY (DC-2-131')	Υ	Z	*,	z	N/A	_		Z	
. GENERATOR ROOM A SPLY FAN 6A INTAKE	<b>&gt;</b> :	Z	*\	z	A/N	_		Z	
DIESEL GENERATOR ROOM B SPLY FAN 68 INTAKE FLT	>	z	*- *	zz	₹ S	_ -		zz	
DIESEL GENERALOR ROUM COPLY PAN 6C INTARE FLI	- >	2 2	* *	z <b>z</b>	4/Z	-   <b>-</b>		z <b>z</b>	
DIESEL KOUM A EMER VEN I L'AI ING EXHAUS I FAN	- >	<b>Z</b> Z	*>	<b>z</b> z	<b>4</b> 8/N			<b>z</b> z	
HPCS DG ROOM VENT FAN	- >-	zz	- *>	zz	Z V	-		zz	
DSL GEN CONT RM A VENT SUPPLY FAN	<b>&gt;</b>	z	**	z	N/A	_		z	
DSL GEN CONT RM B VENT SUPPLY FAN	>	z	*\	z	N/A	-		z	
HPCS DG VENT SUPPLY FAN	<b>\</b>	z	*\	z	N/A	_		Z	
DIESEL GENERATOR VENTILATION PNL 12A	<b>&gt;</b>	Z	*	z	N/A	_		Z	
DIESEL GENERATOR VENTILATION PNL 12B	>- >	z 2	*- *	zz	ĕ S	_  -		z z	
DIESEL GENERALOR VENTILATION PINE IZC. AR MOTOR CONTROL CENTER AREA COOL FR.	- >-	zz	_ >-	zz	Z Z	-		zz	
CONTINT UNIT COOLER	<b>*</b>	z	Α.	z	N/A	_	Н	Z	
CONTMT UNIT COOLER	<b>&gt;</b>	Z	Υ	z	N/A	_	Ŧ	Z	

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RHR R ROOM COOLER	>	z	>	z	Ø/N	-		z	
PENETRATION VALVE LEAKAGE CONT SYSTEM AIR	· >	z		z	A/N	-		z	
PENETRATION VALVE LEAKAGE CONT SYSTEM AIR COMPRESSOR	<b>&gt;</b>	z	<b>\</b>	z	A/N	-		z	
RX CNTMNT ELECT OUTBRD PENTR LVI15 & 15A TERMINATION CABINET	>	z	<b>&gt;</b>	z	N/A	_		z	×
RX CNTMNT ELECT OUTBRD PENTR NMS13 & LV113A TERMINATION CABINET	٨	z	Υ.	z	A/N	-		z	×
N/A ELECT PENETRATION AUX BLDG SIDE	>	Z	<b>&gt;</b>	z	N/A	_		z	×
RX CNTMNT ELECT OUTBRD PENTR LVI5A & LVC5 TERMINATION CABINET	> ;	z	>- ;	z	A/N	_		z ;	×
RX CNTMNT ELECT OUTBED PENTR LVI6A & LVC6 TERMINATION CABINET  DX CNTMNT ELECT OLITED DENTE NIMS19 & 17/194 TERMINATION CABINET	>	zz	>	zz	A/N	_  -	ı	zz	××
RX CNTMNT ELECT OUTBRD FENTR LV124B & LVC21 TERMINATION CABINET	- >-	zz	- >-	zz	X X	-		zz	×
RX CNTMNT ELECT OUTBRD PENTR LVC21 & LVI20A TERMINATION CABINET	٨	Z	٨	z	N/A	_	н	z	×
RX CNTMINT ELECT INBRD PENTR NMS19 & LVI19A TERMINATION CABINET	<b>&gt;</b>	z	<b>&gt;</b>	z	A/N		<b>I</b>	z	×
RX CN IMN1 ELECT INBRD PENTR NMS13 & LV113A TERMINATION CABINET  RX CNTMNT ELECTINBRD PENTR NMS20 & 1 V/20A TERMINATION CABINET	>	zz	>	zz	A/N A/N	_   _	I I	zz	××
N/A ELECT PENETRATION CNTNMNT SIDE		zz	· \	z	N/A	-	ΞΞ	z	×
RX CNTMINT ELECT INBRD PENTR LVI5A & LVC5 TERMINATION CABINET	> ;	z	> ;	z	A/N		Ι:	z	×
SCRAM INLET VALVE	> >	zz	> >	zz	ĕ ×	- -	<b>=</b> 3	z z	××
SCRAM PILOT VALVES	- >-	ZZ	- >-	zz	Z V	- -	Ξ.	zz	×
SCRAM PILOT VALVE SOLENOIDS	<b>\</b>	Z	<b>\</b>	z	N/A	_	Τ	z	×
STANDBY CLG TOWR 1 STAT BLACKOUT DIV 1 STNDBY SRVCE WTR RETURN VL	<b>&gt;</b> ?	z	* 3	> 2	Ψ.X	_ (	=	z	
STANDBY COOLING TOWER FAN 1	<b>&gt;</b>	z <b>z</b>	*- *	z <b>z</b>	A/N	o <b>c</b>	I I	z <b>z</b>	
STANDBY COOLING TOWER 1	- >-	z	*>	z	Ϋ́	0	: =	z	
STANDBY COOLING TWR 1	Υ.	Z	Y*	z	N/A	0	Ξ	z	
STANDBY COOLING TOWER FAN FN1E	>->	z	*- *	z	₹ S	0	Ι:	z	
STANDBY COOLING TWK FAN 1F STANDBY COOLING TOWER FAN FN1G	<b>&gt;</b>	zz	* *	zz	A/N	0 0	I I	zz	
STANDBY COOLING TOWER FAN 1H	- >-	zz	- *>	z	N/A	0	: I	z	
STANDBY COOLING TOWER FAN FN1J	٨	Z	*	z	N/A	0	Ŧ	Z	
STANDBY COOLING TOWER FAN FN1K	> >	z	*_ \$	z	₹ S	0	Ι:	z	
STANDBY COOLING TOWER FAN FN1L	>	zz	*- *	zz	A/N	0 0	I I	zz	
COOLING	- >-	zz	*	z	ξ/X	0	=	zz	
STANDBY COOLING TOWER FAN 1P	٨	Z	γ*	z	N/A	0	Τ	Z	
STANDBY COOLING TOWER FAN FN1Q	> >	z	*- *	z	₹X	0	Ι:	z	
STANDBY COULING TOWER FAN TH STANDBY COOLING TOWER FAN FNIS	<b>&gt;</b>	ZZ	* *	zz	¥/N ∀/N	0 0	E I	zz	
DBY COOLING TOWE	- >-	zz	- *>	zz	Z ≪Z	0	= <b>x</b>	zz	
STANDBY COOLING TOWER FAN FN1U	>	Z	*\	z	N/A	0	Τ	z	
R FAN 1V	<b>&gt;</b> ?	z	*- >	z	Ø.	0 -	Ŧ	z	
CHATBI BI DG CHILLED WIR CHILLER CNDNSER A SVC WIR SPLY LINE ISOL VL	- >	zz	*>	z z	4/Z	-		zz	
CNTRE BEDG CHILED WITH CHILER CONDENSE BOYCE WITH SPET CHE BOLL VE	- >	zz	- *	zz	ζ.	-   -		zz	
CTRL BLDG CHILLED WTR CHILLER CNDNSER D SVC WTR SPLY LINE ISOL VL	- >-	z	*>	z	Z ×	.   _		z	
UNIT CLR A SPLY HEADER INBRI	<b>\</b>	Z	Υ	z	N/A	_	Ŧ	z	
CNTNMNT UNIT CLR B SPLY HEADER INBRD CNTNMNT ISOL VLV	>->	zz	>- >	zz	₹ S	_ -	Ι.	zz	
CNTNMNT UNIT CLR B RETURN HEADER INBRD CNTNMNT ISOL VLV	- >-	zz	- >-	zz	Z/Z	- -	= <b>T</b>	zz	
	<b>&gt;</b>	z	<b>&gt;</b>	z	√N/	_		z	
SSW TO RBCCW DIV II HEADER (RHR PUMP B)	Υ	Z	Υ	z	N/A	_		z	
SSW FROM RBCCW DIV I HEADER (RHR PUMP A)	> >	z	> >	z	₹\Z			z	
SSW FROM RECOVED DIV II HEADER (RHR PUMPB)	<b>&gt;</b>	z <b>z</b>	<b>≻</b> *	z <b>z</b>	4/Z	-   <del>-</del>	=	z <b>z</b>	
STANDBY SVCE WTR PMP B DISCH ISOL VLV	- >-	z	- *-	z	N/N	-	: I	z	
STANDBY SVCE WTR PMP C DISCH ISOL VLV	<b>&gt;</b> :	z	*> :	z	V/N		Ι:	z	
STANDBY SVCE WTR PMP D DISCH ISOL VLV	>- >	z	*-   \$	z	ĕ S	_ -	I	z	
SIBY CLG TOWER TINLE!	<b>-</b> >	<b>z</b> z	*- *>	<b>z</b> z	<b>4/2</b>	-		<b>z</b> z	
STBY SVC WP	· >	z	*	z	N/A	-	Ξ	z	
STBY SVCE WP P2B	>	Z	*\	z	N/A	_	Ξ	z	
HPCS DIESEL GENERATOR SERVICE WATER PUMP	>>	ZZ	*_ *	zz	Ø/Z	_ -	Ι.	zz	
CONTROL BLDG CHILLER RECIRC PLIMP P3A	<b>-</b> >-	zz	*- *-	zz	4 4 2 2	- -	Е	zz	
CONTROL BLDG CHILLER RECIRC PUMP P3B	· >-	z	*	z	Z/N	_		z	
CONTROL BLDG CHILLER RECIRC PUMP P3C	<b>&gt;</b>	z	*	z	A/N	_		z	
CONTROL BLDG CHILLER RECIRC PUMP 3D	>	Z	*\	z	N/A	_		z	
SVCE WTR OUT/BYP HVK-CHL1A (CJ-1-102')	> :	z	* - 5	> >	A/N	_		z	
SVCE WTR OUT/BYP HVK-CHL18 (CD-1-102')	> >	z z	*- *	> >	∀/Z	_ -		zz	
SVCE WIR OUTBYP HVK-CHLTC (CD-2-102)	- >	zz	*>	<b>-</b> >	4/Z	-   -		zz	
STNDBY CLG TWR STATION BLACKOUT RETURN VLV AIR SPLY LINE CNTRL SO	· >	z	*	. *	A/N	-		z	
STANDBY COOLING TOWER	<b>\</b>	Z	Y*	z	N/A			z	

Equipment Discription	Seismic 1?	Undergo Regular Configuration Inspections	Maintains at least 1 of the 5 safety functions	Replaced	PEEE	Inside/Outside (I/O)	High Temp/Humidity (T/H)	Borated System	React
CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	<b>&gt;</b>	z	*	z	N/A	_	Ξ	z	
CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	Υ	z	*-	z	N/A	_	I	z	
CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	Y	N	*\	z	A/N	-	н	Z	
CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	Υ	Z	*\	z	N/A	_	I	Z	
CNTNMNT MONITORING SYS H2 ANALYZER XMITTR	٨	N	Υ	z	N/A	ı		z	
CNTMNT MONIT SYS H2 ANALYZER XMITTR B	Υ	z	>	z	A/N	_		z	
480v MCC (power to B H2 igniters)	٨	Z	٨	z	N/A	ı		Z	
H2 RECOMB IGNITER 04A	Y	N	٨	z	A/N	-		Z	
CONTMT SPLY OUTBD ISOL(AL-2-152')	٨	N	γ	z	N/A	-		Z	
CONTMT SPLY INBD ISOL(42? - 152')	γ	Ν	У	Z	N/A	ı		N	

\* 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-SWC)
Bolded Items were those chosen to be on SWEL 1

	DESCRIPTION	BLDG	ELEV (FT)	ROOM	TRAIN	SYSTEM TYPE	CLASS	EN Inside/Outside
	MAIN STM LINE INBRD ISOL VLV B	DW	130	9303	2	ID	7	_
	MAIN STM LINE OUTBRD ISOL VLV B	MST	130	8205	2	O	2	_
	MAIN STM LINE A PRESS RELIEF VLV	DW	125	9202	2	PC	7	_
	MAIN STM LINE C AUTO DEPRESSURIZATION SYS PRESS RELIEF VLV	DW	125	9202	2	PC	7	_
	SCRAM CHARGING WTR LINE ACCUM	RB	114	7203	z	RC	21	_
	SCRAM CHARGING WTR LINE NITROGEN ACCUM	RB	114	7203	z	RC	21	_
	SCRAM DISCH VOL VENT & DRAIN AZ-174, EL-119 CONTAINMENT	RB	114	7200	z	RC	7	_
	SCRAM DISCH VOL VENT & DRAIN (AZ - 60? - 142') CONTAINMENT BLDG	RB	141	7200	z	RC	7	_
	SCRAM DISCH VOL VENT & DRAIN(AZ - 174? - 119')	RB	114	7211	3	RC	80	_
	SCRAM PILOT VLVS INSTR AIR SPLY LINE 3-WAY SOLENOID VLV	RB	114	7200	-	RC	∞	_
	SCRAM AIR HDR(AZ - 176? - 119')	RB	114	7200	с	RC	∞	_
older								
	RHR HEAT EXCHGR C	AB	70	9009	-	DHR	21	_
	RHR PUMP A SUPPR POOL SUCTION VLV	AB	20	8009	_	DHR	8	_
	RHR A TEST RETURN TO SUPP POOL	AB	92	6112	1	DHR	8	_
	RHR A HX SHELL SIDE BYPASS VALVE	AB	20	9009	1	DHR	8	_
	RHR PUMP A MIN FLOW TO SUPPR POOL	AB	20	9009	_	DHR	8	_
	RHR HX B SVCE WTR RTN (OR) RHR B HX SERVICE WATER OUTLET	TUNNEL D	70	20D1	2	DHR	8	_
	RESIDUAL HEAT REMOVAL PMP 2A	AB	70	9009	1	DHR	9	
	LPCS PUMP MIN FLOW TO SUPPR POOL	AB	98	6112	1	Ol	8	_
	HPCS DIESEL GENERATOR DIESEL ENG	DG	86	1104	3	SS-AC	17	_
	CONDS STOR TK 1CNS-TK1FG-5-71" "F" TUNNEL	F TUNNEL	29	2000	е	Ol	20	_
	SUPPRESSION POOL PUMP SUCTION VALVE	AB	70	6001	е	Ol	8	_
	HPCS MOTOR FEEDER	AB	20	6002	3	IC	9	
	125V DC PANEL DIV III	DG	86	1104	3	SS-DC	2	
	125V DC DIV III BATTERY	CB	116	N/A	3	SS-DC	15	_
	HPCS TRANSFORMER FEEDER	CB	116	N/A	3	SS-AC	4	_
	DIV III 4160V AC SWITCHGEAR	CB	116	N/A	3	SS-AC	8	_
	DIESEL 1C AIR START RECEIVER TNK	DG	86	N/A	က	SS-AC	21	_

								EN
	DESCRIPTION	BLDG	ELEV (FT)	ROOM	TRAIN	SYSTEM TYPE	CLASS	Inside/Outside (I/O)
	RX CORE ISOL CLG TURB STM SPLY ISOL VLV	AB	70	9009	1	C	8	1
	RX CORE ISOL CLG PMP	AB	70	9009	Z	)I	9	_
	RCIC TURB GOVERNOR PNL	CB	70	6112	z	CI	20	_
	RX CORE ISOL CLG TURB	AB	70	9009	z	O.	0	_
	SDG AIR START SYS AIR RECEIVER TK 1C	DG	98	1100	1	SS-AC	21	
	SDG AIR START SYS AIR RECEIVER TK 2A	DG	98	1100	_	SS-AC	21	_
	DIV I DG EXCITER CABINET	DG	86	W/A	Ţ	SS-AC	14	_
	FUEL OIL TRANSFER PUMP	DG	98	W/A	1	SS-AC	9	1
	SDG FUEL OIL DAY TK A	DG	98	1100	1	SS-AC	21	1
	SDG A ENGINE	DG	98	1106	_	SS-AC	17	_
	SDG CLG SYS JACKET WTR CLR A	DG	98	N/A	_	SS-AC	21	_
	STANDBY SWGR RM 1A 480V MCC14A	CB	98	1117	Ī	SS-AC	1	1
	DIESEL GEN RM A MCC15A	DG	86	1107	Ţ	SS-AC	1	_
	STANDBY CLG TOWER 1 MTR CNTRL CENTER 16A	SCT	118	104	-	SS-SWP	-	_
	EHS-MCC2B AUX BLDG	AB	141	6302	2	RC, PC, DHR, CI	1	_
	AUXILIARY BUILDING MCC2L	AB	141	9089	1	DHR, IC, CI, PC	1	1
	REMOTE SHUTDOWN SYSTEM CONTROL POWER: 1HVR*UC11A,1HVR*UC1A	AB	141	9089	1	SS-AC	3	1
	STANDBY SWGR RM 1A 480V SWG1A	CB	86	1117	Ī	SS-AC	3	-
	STANDBY SWGR ROOM 1A SWGR 1A PWR XFORMR 1A	CB	98	1117	1	SS-AC	4	
	AUX BLDG STANDBY SWGR 2A PWR XFORMR	AB	141	9069	Ţ	SS-AC	4	_
	4.16kv - 480 v transformer	SBCT	136	W/A	1	SS-AC	4	1
	STANDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATTERY BANK 1A	CB	116	N/A	1	SS-DC	15	1
	STDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATRY BANK 1A CHARGER 1A	CB	116	1214	1	SS-DC	16	-
	ENB*INV01A VITAL BUS A INVERTER	CB	98	N/A	1	SS-DC	16	1
older								
	125V DC PANEL	CB	136	1310	1	SS-DC	14	_
	125V DC SWITCHGEAR 1A	CB	98	1117	1	SS-DC	2	_
	4160V STANDBY SWGR BUS 1A	CB	98	1117	1	SS-AC	3	_
	RPS LOGIC DIV C	CB	136	1310	1	RC	20	_

E	Inside/Outside (I/O)	_	_	_	_	_	_	_	-	_	_	-	_	_	_		_	_	-	_	-	_	_	-	_	_	_
	CLASS	10	10	7	7	7	0	0	6	6	11	8	2	21	7		6	6	3	10	10	12	12	14	14	14	7
	SYSTEM TYPE	SS-AC	SS-AC	SS-AC	SS-AC	SS-AC	SS-AC	SS-DC	SS-AC	SS-DC	SS-AC	SS-AC	SS-AC	SS-AC	SS-AC		SS-AC	SS-AC	SS-AC	DHR	DHR, IC	PC	PC	RC	RC	RC	RC
	TRAIN	1	3	1	2	1	-	1	1	1	1	1	1	1	1		1	1	1	1	1	1	2	Z	Z	Z	Z
	ROOM	1011	6201	1000	N/A	1200	N/A	1200	1000	N/A	1124	1110	1124	1110	1305		1100	1305	1106	7408	6205	6301	6301	6207	5205	7200	N/A
	ELEV (FT)	02	114	02	02	115	115	116	02	116	86	86	86	86	126		86	126	86	162	114	141	141	114	113	114	N/A
	BLDG	CB	AB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	DG		DG	DG	DG	RB	AB	AB	AB	AB	FB	RB	RB
	DESCRIPTION	CONTROL BLDG AIR HLDG UNIT ACU2A	HPCS PUMP ROOM UNIT COOLER	1HVC*ACU2A AIR OUTLET (CD-2-89')	1HVC*FN2B AIR INLET (CA-2-80')	1HVC*ACU1A AIR OUTLET (CD-1-130')	CONTROL ROOM AIR HLDG UNIT HEATER CH1A	CNTRL BLDG BATTERY ROOM 1A COIL HTR	STBY SWGR RETURN FAN	BATTERY ROOM 1A EXHAUST FAN	HVKC01 CONTROL BLDG CHILLED WATER COMPRESSOR CHL1C	CNTRL BLDG CHILLED WTR PMP 1C DISCH MTR OPERATED ISOL VLV	1HVK*P1A CONTROL BLDG CHILLED WATER PUMP	CNTRL BLDG CHILLED WTR SURGE TK 1A	DSL GEN CONT RM A AIR SPLY (DC-3-131')		DIESEL ROOM A EMER VENTILATING EXHAUST FAN	DSL GEN CONT RM A VENT SUPPLY FAN	DIESEL GENERATOR VENTILATION PNL 12A	CONTMT UNIT COOLER	AUX BLDG UNIT COOLER	PENETRATION VALVE LEAKAGE CONT SYSTEM AIR	PENETRATION VALVE LEAKAGE CONT SYSTEM AIR COMPRESSOR	RX CNTMNT ELECT OUTBRD PENTR NMS13 & LVI13A TERMINATION CABINET	RX CNTMNT ELECT OUTBRD PENTR LVC21 & LVI20A TERMINATION CABINET	RX CNTMNT ELECT INBRD PENTR NMS19 & LVI19A TERMINATION CABINET	SCRAM INLET VALVE
																older											

/

z z

7200 A/N

V N 114

RB RB

SCRAM DISCHARGE VALVE

SCRAM PILOT VALVES

older

RC RC

	DESCRIPTION	BLDG	ELEV (FT)	ROOM	TRAIN	SYSTEM TYPE	CLASS	Inside/Outside (I/O)
	STANDBY COOLING TWR 1	SCT	137	200	2	SS-SWP	6	0
	STANDBY COOLING TOWER FAN FN1J	SCT	137	200	-	SS-SWP	6	0
	STANDBY COOLING TOWER FAN FN1N	SCT	137	200	-	SS-SWP	o	0
	STANDBY COOLING TOWER FAN 1V	SCT	137	200	2	SS-SWP	o	0
	CNTRL BLDG CHILLD WTR CHILLR CONDENSR C SVCE WTR SPLY LNE ISOL VL	CB	86	1110	-	SS-AC	∞	_
	CNTNMNT UNIT CLR A SPLY HEADER INBRD CNTNMNT ISOL VLV	RB	162	7408	1	DHR	80	_
	STANDBY SVCE WTR PMP A DISCH ISOL VLV	SCT	118	104	1	SS-SWP	80	_
	STBY CLG TOWER 1 INLET	G TUNNEL	29	0	1	SS-SWP	80	_
	STBY SVC WP	SCT	118	100	1	SS-SWP	9	_
	CONTROL BLDG CHILLER RECIRC PUMP P3C	CB	86	1100	1	SS-AC	2	_
	STNDBY CLG TWR STATION BLACKOUT RETURN VLV AIR SPLY LINE CNTRL SO	G tunnel	108	N/A	1	SS-SWP	8	1
	AUX BLDG LOCAL INSTR RACK 3	AB	141	6302	Z	DHR	18	
	SUPPRESSION POOL TRANSMITTER (AX 112? - 122')	RB	114	7200	1	DHR	20	_
	CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	RB	92	7100	1	DHR	19	
	CNTNMNT ATMOS AND LEAKAGE MONITORING SYS RESISTANCE TEMP DETECTOR	RB	92	7100	1	DHR	19	
	CNTNMNT MONITORING SYS H2 ANALYZER XMITTR	AB	114	6306	1	CI	20	1
	480v MCC (power to B H2 igniters)	AB	141	N/A	2	O	-	
_	H2 RECOMB IGNITER 04A	RB	186	7500	_	CI	0	
	CONTMT SPLY OUTBD ISOL(AL-2-152')	AB	141	6307	1	CI	7	
	CONTMT SPLY INBD ISOL(42? - 152')	RB	141	9408	7-	ō	7	-

swere walked down (one on either side of the reactor bldg). The items had the same ID on both sides.

							(0/1)	(T/H)
OOP B OUTLET ISOL VLV	AB	20	8009	2	SFPC	8	_	
OOP A OUTLET ISOL VLV	AB	20	8009	1	SFPC	8	-	
W LOOP A NORM SUPPLY VALVE	AB	20	8009	1	SFPC	8	_	
W LOOP B NORM SUPPLY VALVE	AB	20	8009	2	SFPC	œ	_	
UMPS SUPPLY VLV	FB	70	5013	2	SFPC	8	_	
UMPS SUPPLY VALVE	FB	20	5013	2	SFPC	8	_	
OOP A OUTLET MTR OPERATED ISOL VLV	AB	20	8009	1	SFPC	8	-	
OOP B OUTLET MTR OPERATED ISOL VLV	AB	20	8009	2	SFPC	8	-	
IARY BUILDING MCC2G	AB	114	6206	-	SFPC	1	ı	
JARY BUILDING MCC2H	AB	114	6203		SFPC	1	-	
DBY SWGR RM 1A 480V MCC8A	CB	86	1117	-	SFPC	1	-	
DBY SWGR RM 1B MCC8B	CB	86	1114		SFPC	1	_	
DBY SWGR RM 1A 480V SWG1A	CB	86	1117	_	SFPC	3	_	
DBY SWGR RM 1B 480V SWG1B	CB	86	1114	2	SFPC	3	_	
L PRFCN FLT1A BYP FD-6-87'	FB	20	5018	_	SFPC	7	_	Ŧ
JL PRFCN FLT1B BYP FD-9-87'	FB	20	5019	_	SFPC	2	_	I
JL PRFCN FLT1A INLET FD-7-87'	FB	20	2000	1	SFPC	2		Н
L PRFCN FLT1B INLET FD-9-87'	FB	20	5021	1	SFPC	2	_	I
POOL PRFCN FLT 1A OUTLET FD-8-105'	FB	98	N/A	1	SFPC	2	-	Н
POOL PRFCN FLT 1B OUTLET FD-8-105'	FB	92	N/A	1	SFPC	2	-	Н
STORAGE POOL FUEL POOL CLR A	FB	20	2000	-	SFPC	21		Н
STORAGE POOL FUEL POOL CLR B	FB	20	2000	,	SFPC	21	_	I
/TR TO SPENT FUEL POOLS FE-8-70'	FB	20	2000	_	SFPC	20	_	I
/TR TO SPENT FUEL POOLS FE-8-75'	FB	20	2000	2	SFPC	20	-	Ŧ
STORAGE POOL (SPENT FUEL) LEVEL XMITTR	FB	92	2100	1	SFPC	20	ı	Н
STORAGE POOL (SPENT FUEL) LEVEL XMITTR	FB	92	2100	1	SFPC	20	_	Н
POOL COOLING PUMP 1A	FB	20	5011	1	SFPC	2	-	Н
POOL COOLING PUMP 1B	FB	20	5012	1	SFPC	2		Н
POOL CLG PMP A SUCT HEADER RESISTANCE TEMP DETECTOR	FB	20	2000	1	SFPC	19		Н
POOL CLG PMP B SUCT HEADER RESISTANCE TEMP DETECTOR	FB	20	2000	2	SFPC	19	_	Н
POOL CLR A SVCE WTR RETURN LINE ISOL VLV	AB	20	8009	1	SFPC	8	-	
W SYSTEM RETURN	AB	20	6001	2	SFPC	8	_	
W SYSTEM SUPPLY	AB	20	8009	1	SFPC	8	_	
W SYSTEM SUPPLY	AB	20	6001	2	SFPC	8	_	

ENVIRONMEN

Inside/ High Outside Temp/Humidity

CLASS

SYSTEM TYPE

TRAIN

ROOM

ELEV

BLDG

DESCRIPTION

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

RDD#	Description	Basis for Inclusion/Exclusion	RDD
		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	
R-01		above the top of the fuel assemblies.	
R-02			
R-03			
		Ref. RBS USAR Section 9.1.2.3.3 and dwgs EC-062U, V, W, EP-077 Series, and EV-003A	
R-04		Series	
R-05			

								Тимпошиси		
Description	BLDG	Elev.	Room	Train	System Type	Class	Inside/ Outside (I/O)	High Temp/Humidity (T/H)	Borated System	Ž
CP LOOP A OUTLET ISOL VLV	AB	70	8009	1	SFPC	8	_			_
RPCCW LOOP A NORM SUPPLY VALVE	AB	20	8009	1	SFPC	8	_			_
SRD PUMPS SUPPLY VLV	AB	20	5013	2	SFPC	8	_			_
CP LOOP A OUTLET MTR OPERATED ISOL VLV	AB	70	8009	1	SFPC	8	_			_
AUXILIARY BUILDING MCC2H	AB	114	6203	7	SFPC	_	_			_
STANDBY SWGR RM 1B MCC8B	CB	86	1114	7	SFPC	_	_			_
sed. Placeholder										
POOL PRFCN FLT1A BYP FD-6-87'	FB	70	5018	1	SFPC	7	_	Н		_
POOL PRFCN FLT1B INLET FD-9-87'	FB	70	5021	1	SFPC	7	_	Н		_
sed. Placeholder										
sed. Placeholder										
CLR WTR TO SPENT FUEL POOLS FE-8-75'	FB	20	2000	7	SFPC	20	_	H		_
:UEL STORAGE POOL (SPENT FUEL) LEVEL XMITTR	FB	92	5100	1	SFPC	20	_	Н		_
:UEL POOL COOLING PUMP 1A	FB	70	5011	1	SFPC	2	_	Н		
:UEL POOL CLG PMP B SUCT HEADER RESISTANCE T	FB	70	2000	7	SFPC	19	_	Н		_
RPCCW SYSTEM RETURN	AB	70	6001	7	SFPC	8	_			_
RPCCW SYSTEM SUPPLY	AB	70	6001	2	SFPC	8	_			_

## Attachment C Seismic Walkdown Checklists (SWC)

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-005
Equipment ID No. C11-ACC125 Equip. Class <sup>1</sup> 21 - Tanks and Heat Exhangers
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>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.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>No visible corrosion.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracks in concrete near equipment rack anchorage.</li> </ul>

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

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	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	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Seismic Walkdown Checklist (SWC)SWEL1-005	Status: Y⊠ N□ U□
Equipment ID No. C11-ACC125 Equip. Class 21 – Tanks and heat	exchangers
Equipment Description SCRAM ACCUMULATOR - WATER 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□
Comments (Additional pages may be added as necessary)	
None	
Acop	
Evaluated by: <u>Jason Halsey</u>	Date: 10-9-2012
Matt Keeney Matt Keeney	10-9-2012

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Seismic Walkdown Checklist (SWC)	
Equipment ID No. C11-ACC125 Equip. Cla	
Equipment Description SCRAM ACCUMULATOR - W	VATER SIDE
Photographs	
Note:	Note:

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SWEL1-005
Equipment ID No. C11-ACC125 E	quip. Class <u>21 – Tanks and heat exchangers</u>
Equipment Description SCRAM ACCUMULA	TOR - WATER SIDE
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-006</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y N U N/A</li> <li>N/A</li> <li>N/A</li></ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>No visible corrosion.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracks in concrete near equipment rack anchorage.</li> </ul>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-006	
Equipment ID No. C11-ACC125 Equip. Class 21 – Tanks and heat 6	exchangers
Equipment Description SCRAM ACCUMULATOR - WATER SIDE	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1-006	
Equipment ID No. C11-ACC125 Equip. Class 21 – Tanks and he	eat exchangers
Equipment Description SCRAM ACCUMULATOR - WATER 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□
Comments (Additional pages may be added as necessary)  None	
Evaluated by: Jason Halsey	Date: <u>10-9-2012</u>
Matt Keeney	
Matt Keeney	10-9-2012

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Seismic Walkdown Checklist (SWC)	
Equipment ID No. C11-ACC125 Equip. Cla	
Equipment Description SCRAM ACCUMULATOR - V	VATER SIDE
Photographs	
Note:	Note:

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) S	WEL1-006
Equipment ID No. C11-ACC125 Equip. Cla	ss_21 – Tanks and heat exchangers
Equipment Description SCRAM ACCUMULATOR - W	ATER SIDE
Note:	Note:

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y N U N/A U</li> <li>N/A U</li></ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>No visible corrosion.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracks in concrete near equipment rack anchorage.</li> </ul>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-007	
Equipment ID No. C11-ACC128 Equip. Class 21 – Tanks and heat of	exchangers
Equipment Description SCRAM ACCUMULATOR - NITROGEN SIDE	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	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	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
A.O.	
Evaluated by: <u>Jason Halsey</u>	_ Date: 10-9-2012
Matt Keeney	
Matt Keenev	10-9-2012

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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:

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	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 ACCUMU	JLATOR - NITROGEN SIDE
Note:	Note:

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Status: Y⊠ N⊟ U□	
Seismic Walkdown Checklist (SWC)SWEL1-008	
Equipment ID No. C11-ACC128 Equip. Class¹ 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	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>	
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y N U N/A U</li> <li>N/A U<td></td></li></ol>	
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>No visible corrosion.</li> </ol>	
4. Is the anchorage free of visible cracks in the concrete near the anchors?  No visible cracks in concrete near equipment rack anchorage.  Y □ N □ U □ N/A □	

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-008	
Equipment ID No. C11-ACC128 Equip. Class 21 – Tanks and heat 6	exchangers
Equipment Description SCRAM ACCUMULATOR - NITROGEN SIDE	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Y□ N□ U□ N/A⊠
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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	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 conadversely affect the safety functions of the equipment?	uld Y⊠ N□ U□
Comments (Additional pages may be added as necessary)  None	
None	
AQ,	
Evaluated by: <u>Jason Halsey</u>	Date: <u>10-9-2012</u>
Matt Keeney	
Matt Keeney	10-9-2012

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Seismic Walkdown Checklist (SWC)	
Equipment ID No. C11-ACC128 Equip. Cla	ass_21 – Tanks and heat exchangers
Equipment Description SCRAM ACCUMULATOR - N	IITROGEN SIDE
Photographs	
Note:	Note:

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	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	R - NITROGEN SIDE
Note:	Note:

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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		
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>		
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>In-line mounted valve welded to the pipe with the pipe clamped upstream and downstream of valve.</li> </ol>		
<ul><li>3. Is the anchorage free of corrosion that is more than mild surface oxidation?</li><li>Surfaces are painted</li></ul> Y∑ N☐ U☐ N/A☐		
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve mounted to process pipe</li> </ol>		

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-009</u>	
Equipment ID No. C11-AOVF011 Equip. Class 7 – Pneumatic-Operat	ted Valves
Equipment Description SCRAM DISCH VOL VENT & DRAIN AZ-174, EL-119 (	CONTAINMENT
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-009</u>
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 Y⊠ N□ U□ adversely affect the safety functions of the equipment?
<u>Comments</u> (Additional pages may be added as necessary)
None
Matt Keoney
Evaluated by: Matt Keeney Date: 10-9-2012
Jason Halsey 10-9-2012

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Seismic Walkdown Checklist (SWC) SWEL1- Equipment ID No. C11-AOVF011 Equip. Cla	
Equipment Description SCRAM DISCH VOL VENT &	
Photographs	
Note:	Note:

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Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC) <u>SWEL1-009</u>	
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:	

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-010</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>In-line mounted valve, pipe clamp or welded upstream and downstream of valve.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Surfaces are painted.</li> </ol>
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve supported by steel.</li> </ol>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-010</u>	
Equipment ID No. C11-AOVF180 Equip. Class 7 – Pneumatic-Opera	ted Valve
Equipment Description SCRAM DISCH VOL VENT & DRAIN (AZ - 60? - 142')	CONTAINMENT BLDG
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1-010	
Equipment ID No. C11-AOVF180 Equip. Class 7 – Pneumatic-Operat	ed 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	
Matt Keenene	
Evaluated by: Matt Keeney	Date: 10-9-2012
20,0	
Jason Halsey	10-9-2012

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Status: Y N U 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:

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-(</u>	<u> </u>
Equipment ID No. C11-AOVF180 Equip. Class	s_7 – Pneumatic-Operated Valve
Equipment Description SCRAM DISCH VOL VENT & I	DRAIN (AZ - 60? - 142') CONTAINMENT BLDG
Note:	Note:

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>∀⊠ N□ U□ N/A□</li> <li>Valve is bolted to bracket which is welded to tube steel. All hardware is intact and undamaged.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A NO VISIBLE CORROSION.</li> </ol>
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Component mounted to tube steel.</li> </ol>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-011</u>	
Equipment ID No. C11-SOVF009 Equip. Class 8 – Motor-Operated ar	nd Solenoid-Operated Valve
Equipment Description SCRAM DISCH VOL VENT & DRAIN (AZ - 174? - 119')	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-011</u>	
Equipment ID No. C11-SOVF009 Equip. Class 8 – Motor-Operated as	nd Solenoid-Operated Valve
Equipment Description SCRAM DISCH VOL VENT & DRAIN (AZ - 174? - 119')	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Evaluated by: <u>Jason Halsey</u>	Date: <u>10-10-2012</u>
David Dassi	40.40.2040
David Bassi	10-10-2012

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	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-(</u>	
Equipment ID No. <u>C11-SOVF009</u> Equip. Class	ss_8 – Motor-Operated and Solenoid-Operated Valve
Equipment Description SCRAM DISCH VOL VENT & I	DRAIN (AZ - 174? - 119')
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) SWEL1-01	Status: Y⊠ N□ U□
Seisific Walkdown Checklist (SWC)SWELT-01	<u> </u>
Equipment ID No. <u>C11-SOVF009</u> Equip. Class_	8 – Motor-Operated and Solenoid-Operated Valve
Equipment Description SCRAM DISCH VOL VENT & DE	RAIN (AZ - 174? - 119')
Nede	Nata
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-012</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Rigid in-line mounted valve welded to piping. Attached piping is supported by tube steel.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>No visible surface oxidation.</li> </ol>
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line mounted component.</li> </ol> Y□ N□ U□ N/A□

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-012</u>	
Equipment ID No. C11-SOVF110A Equip. Class 8 – Motor-Operated a	nd Solenoid-Operated Valve
Equipment Description SCRAM PILOT VLVS INSTR AIR SPLY LINE 3-WAY S	OLENOID VLV
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-012</u>	
Equipment ID No. C11-SOVF110A Equip. Class 8 – Motor-Operated ar	nd Solenoid-Operated Valve
Equipment Description SCRAM PILOT VLVS INSTR AIR SPLY LINE 3-WAY S	OLENOID 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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10-3-2012
J. P. Klenhlaug	
John Dunkelberg	10-3-2012

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Status: Y N U 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:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-013
Equipment ID No. C11-SOVF182 Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Valve bolted to bracket that is welded to tube steel. All hardware is intact and good condition.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>No visible corrosion.</li> </ol>
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Valve is mounted to tube steel.</li> </ol>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-013</u>	
Equipment ID No. C11-SOVF182 Equip. Class 8 – Motor-Operated a	nd Solenoid-Operated Valve
Equipment Description SCRAM AIR HDR (AZ - 176? - 119')	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-013	
Equipment ID No. C11-SOVF182 Equip. Class 8 – Motor-Operated a	nd Solenoid-Operated Valve
Equipment Description SCRAM AIR HDR (AZ - 176? - 119')	
Other Adverse Conditions	
11. Have you looked for and found no 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	
LaCay	
Evaluated by: <u>Jason Halsey</u>	Date: 10-10-2012
1) 1Z.	
David Bassi	10 10 2012

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Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>C11-SOVF182</u> Equip. Class	s 8 – Motor-Operated and Solenoid-Operated Valve
Equipment Description SCRAM AIR HDR (AZ - 176? -	119')
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>C11-SOVF182</u> Equip. Class	
Equipment Description SCRAM AIR HDR (AZ - 176? -	119')
Note:	Note:
NOTE.	Note.

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-015
Equipment ID No. E12-EB001C Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>No bent, broken, loose or missing hardware visible.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Some minor mild corrosion noted.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks observed.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-015</u>	
Equipment ID No. <u>E12-EB001C</u> Equip. Class <u>21 – Tanks and Heat</u>	Exchangers
Equipment Description RHR HEAT EXCHGR C	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Seismic Walkdown Checklist (SWC) <u>SWEL1-015</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>E12-EB001C</u> Equip. Class <u>21 – Tanks and Heat E</u>	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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Evaluated by: John Dunkelberg	Date: <u>10-6-2012</u>
April Carlors	
Jose Cardona	10-6-2012

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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
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Note: Note:

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Status: Y N U
Seismic Walkdown Checklist (SWC) <u>SWEL1-016</u>
Equipment ID No. <u>E12-MOVF004A</u> Equip. Class¹_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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N∑         of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>In-line valve bolts all good</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A No corrosion noted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-016</u>	
Equipment ID No. <u>E12-MOVF004A</u> Equip. Class <u>8 – Motor-Operated a</u>	nd Solenoid-Operated Valve
Equipment Description RHR PUMP A SUPPR POOL SUCTION VLV	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Soiomia Walkdown Charklist (SWC) SWEL1 016	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-016</u>	
Equipment ID No. <u>E12-MOVF004A</u> Equip. Class <u>8 – Motor-Operated</u>	and Solenoid-Operated Valve
Equipment Description RHR PUMP A SUPPR POOL SUCTION 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	
J. P. Klenholderg	
Evaluated by: John Dunkelberg	Date: 10/6/2012
April Carlos	
Jose` Cardona	10/6/2012

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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:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-017</u>
Equipment ID No. <u>E12-MOVF024A</u> Equip. Class¹_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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N⊠ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>In-line, insulated, no missing hardware observed.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Operation fasteners free of corrosion</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve.</li> </ul>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-017</u>	
Equipment ID No. <u>E12-MOVF024A</u> Equip. Class <u>8 – Motor-Operated a</u>	nd Solenoid-Operated Valve
Equipment Description RHR A TEST RETURN TO SUPP POOL	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-017</u>	
Equipment ID No. E12-MOVF024A Equip. Class 8 – Motor-Operated a	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□
<b>Comments</b> (Additional pages may be added as necessary)	
In-line insulated valve.	
Evaluated by: John Dunkelberg	Date: 10/6/2012
Evaluated by. domin bunkelberg	
And Carlos	
Jose` Cardona	10/6/2012

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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:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-018
Equipment ID No. <u>E12-MOVF048A</u> Equip. Class¹ 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>In-line valve, insulated. No observed fasteners missing, bent, broken, loose fasteners.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Mild corrosion observed on valve fasteners.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-018</u>	
Equipment ID No. <u>E12-MOVF048A</u> Equip. Class <u>8 – Motor-Operated a</u>	nd Solenoid-Operated Valve
Equipment Description RHR A HX SHELL SIDE BYPASS VALVE	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? See Comments	Y⊠ N□ U□

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Status: Y⊠ N U U
Seismic Walkdown Checklist (SWC) <u>SWEL1-018</u>
Equipment ID No. <u>E12-MOVF048A</u> Equip. Class <u>8 – Motor-Operated and Solenoid-Operated Valve</u>
Equipment Description RHR A HX SHELL SIDE BYPASS VALVE
Other Adverse Conditions
11. Have you looked for and found no other seismic conditions that could Y N U U □ adversely affect the safety functions of the equipment?
<u>Comments</u> (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.
Evaluated by: John Dunkelberg  Date: 10/6/2012
Jose` Cardona 10/6/2012

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Seismic Walkdown Checklist (SWC) <u>SWEL1-018</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>E12-MOVF048A</u> Equip. Class <u>8 – Motor-Ope</u>	rated and Solenoid-Operated Valve
Equipment Description RHR A HX SHELL SIDE BYPASS VALVE	
Photographs	
Note: Note:	

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-019
Equipment ID No. <u>E12-MOVF064A</u> Equip. Class¹ 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) <u>Limitorque Model SB-00S</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>In-line mounted valve, no damaged or missing hardware.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A No significant corrosion, valve body insulated.</li> </ol>
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line mounted valve.</li> </ol> Y □ N □ U □ N/A □

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-019</u>	
Equipment ID No. <u>E12-MOVF064A</u> Equip. Class <u>8 – Motor-Operated a</u>	nd Solenoid-Operated Valve
Equipment Description RHR PUMP A MIN FLOW TO SUPPR POOL	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SWEL1-019	
Equipment ID No. <u>E12-MOVF064A</u>	Equip. Class 8 – Motor-Operated	and Solenoid-Operated Valve
Equipment Description RHR PUMP A MIN	FLOW TO SUPPR POOL	
Other Adverse Conditions		
<ol> <li>Have you looked for and found no o adversely affect the safety functions</li> </ol>		Y⊠ N□ U□
Comments (Additional pages may be adde	d as necessary)	
None		
Evaluated by: John Dunkelberg	Luchley	Date: <u>10-6-2012</u>
	I Cardono	
Jose Cardona		10-6-2012

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Seismic Walkdown Checklist (S	WC) <u>SWEL1-019</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>E12-MOVF064A</u>	Equip. Class 8 – Motor-Operate	ed and Solenoid-Operated Valve
Equipment Description RHR PUMP	A MIN FLOW TO SUPPR POOL	

## **Photographs**







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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC)SWEL1-020
Equipment ID No. <u>E12-MOVF068A</u> 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N⊠ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>All hardware present and in good condition.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A NO NO CORROSION VISIBLE.</li> </ol>
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line mounted valve.</li> </ol>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-020	
Equipment ID No. <u>E12-MOVF068A</u> Equip. Class <u>8 – Motor-Operated a</u>	nd Solenoid-Operated Valve
Equipment Description RHR HX A SVCE WTR RTN (OR) RHR A HX SERVIC	E WATER OUTLET
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-020	
Equipment ID No. <u>E12-MOVF068A</u> Equip. Class 8 – Motor-Operate	d and Solenoid-Operated Valve
Equipment Description RHR HX A SVCE WTR RTN (OR) RHR A HX SERV	VICE 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□
Comments (Additional pages may be added as necessary)	
None	
Evaluated by: Jason Halsey	Date: 10-10-2012
Litaliaatod Sy. <u>addolf Fidiocy</u>	Date. 10 10-2012
J-173-	
David Bassi	10-10-2012

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SW	<u>EL1-020</u>
Equipment ID No. <u>E12-MOVF068A</u> Equip. Class	8 – Motor-Operated and Solenoid-Operated Valve
Equipment Description RHR HX A SVCE WTR RTN (OF	R) RHR A HX SERVICE WATER OUTLET
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>E12-MOVF068A</u> Equip. Class	s 8 – Motor-Operated and Solenoid-Operated Valve
Equipment Description RHR HX A SVCE WTR RTN (C	R) RHR A HX SERVICE WATER OUTLET
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-021</u>
Equipment ID No. E12-PC002A Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Anchorage is free of bent, broken, missing or loose hardware. Could not observe several anchors below piping.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks observed.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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Seismic Walkdown Checklist (SWC) <u>SWEL1-021</u>	Status: Y⊠ N□ U□
Equipment ID No. E12-PC002A Equip. Class 6 – Vertical Pump	
Equipment Description RESIDUAL HEAT REMOVAL PMP 2A	
<ul> <li>5. Is the anchorage configuration consistent 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-066G EC-066E Verified in accordance with above dwgs</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of</li> </ul>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
potentially adverse seismic conditions?	
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-021</u>	
Equipment ID No. <u>E12-PC002A</u> Equip. Class <u>6 – Vertical Pump</u>	
Equipment Description RESIDUAL HEAT REMOVAL PMP 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□
<b>Comments</b> (Additional pages may be added as necessary)	
Observations made from 78' elevation down to 70' floor. 70' elevation is surveyed and no step off pad.	a contaminated zone not
Evaluated by: John Dunkelberg	Date: 10-6-2012
April Cardone	
Jose Cardona	10-6-2012

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Seismic Walkdown Checklist (SWC) <u>SWEL1-021</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>E12-PC002A</u> Equip. Class <u>6 – Vertical Pump</u>	
Equipment Description RESIDUAL HEAT REMOVAL PMP 2A	



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Seismic Walkdown Checklist (SWC) <u>SWEL1</u>		tatus: Y⊠ N□ U□
Equipment ID No. <u>E12-PC002A</u> Equip. Cla		
Equipment Description RESIDUAL HEAT REMOVAL		
Note:	Note:	

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-022
Equipment ID No. <u>E21-MOVF011</u> Equip. Class¹ 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) <u>Velan Model B12-1054B-02TS</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>In-line valve, free of ben, broken, loose and missing fasteners.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>Fasteners/valve painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-022</u>	
Equipment ID No. <u>E21-MOVF011</u> Equip. Class <u>8 – Motor-Operated a</u>	nd Solenoid-Operated Valve
Equipment Description LPCS PUMP MIN FLOW TO SUPPR POOL	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-022</u>	
Equipment ID No. <u>E21-MOVF011</u> Equip. Class <u>8 – Motor-Operated an</u>	nd 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□
Comments (Additional pages may be added as necessary)	
Valve elevation is 95', west crescent area.	
Evaluated by: John Dunkelberg	Date: 10/6/2012
And Carlone	
Jose' Cardona	10/6/2012

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Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL1-022
Equipment ID No. <u>E21-MOVF011</u> Equip. Class <u>8 – Motor-Operated and Solenoid-Operated Valve</u>
Equipment Description LPCS PUMP MIN FLOW TO SUPPR POOL
Photographs
Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC)SWEL1-023
Equipment ID No. E22-EGS001 Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Anchor bolts with nuts mounting equipment skid to concrete, 8 bolts/nuts anchoring diesel engine to skid.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Concrete pad is heavily painted no visible cracks near anchorage.</li> </ul>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-023	
Equipment ID No. <u>E22-EGS001</u> Equip. Class <u>17 – Engine Generato</u>	or
Equipment Description HPCS DIESEL GENERATOR DIESEL ENG	
<ul> <li>5. Is the anchorage configuration consistent 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</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
Interaction Effects  7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-023</u>	
Equipment ID No. <u>E22-EGS001</u> Equip. Class <u>17 – Engine Generato</u>	r
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: <u>Jason Halsey</u>	Date: <u>10/5/2012</u>
Brandon Nissing	10/5/2012
Dialiant Hooling	10/0/2012

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Seismic Walkdown Checklist (SWC)SWEL1-023	Status: Y⊠ N□ U□
Equipment ID No. <u>E22-EGS001</u> Equip. Class <u>17 – Engine Generator</u>	
Equipment Description HPCS DIESEL GENERATOR DIESEL ENG	
Photographs	





Note:

Note:

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			Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SW	EL1-023	
Equipment ID No. E22-EGS001	Equip. Class	17 – Engine Generator	
Equipment Description HPCS DIESEL GE	NERATOR DI	ESEL ENG	
Note:		Note:	

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-024	
Equipment ID No. <u>E22-LTN054G</u> Equip. Class¹_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 11	52DP3E22T0280PB
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documentin	the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Y⊠ N□
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?         No missing bolts or hardware.         Instrument is rack mounted to wall with (4) 1" concrete anchors     </li> </ol>	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?  Painted support	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?  No cracks observed	Y⊠ N□ U□ N/A□

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-024	
Equipment ID No. <u>E22-LTN054G</u> Equip. Class <u>20 – Instrument and C</u>	Control Panel
Equipment Description CONDS STOR TK 1CNS-TK1FG-5-71' "F" TUNNEL	
<ul> <li>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>ICRN-308A-10C; BZ-314DN; BZ-314F</li> <li>Verified in accordance with above dwg</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-024	
Equipment ID No. <u>E22-LTN054G</u> Equip. Class <u>20 – Instrument and</u>	Control Panel
Equipment Description CONDS STOR TK 1CNS-TK1FG-5-71' "F" TUNNEL	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<b>Comments</b> (Additional pages may be added as necessary)	
None	
Evaluated by: John Dunkelberg	Date: <u>10/5/2012</u>
April Carlors	
Jose` Cardona	10/5/2012

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		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SWEL1-024	
Equipment ID No. <u>E22-LTN054G</u> Ed	quip. Class <u>20 – Instru</u>	ment and Control Panel
Equipment Description CONDS STOR TK 10	ONS-TK1FG-5-71' "F"	TUNNEL
Photographs		
Note:	Note:	

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Status:	$Y \boxtimes N \sqcup U \sqcup$
Seismic Walkdown Checklist (SWC)SWEL1-025	
Equipment ID No. <u>E22-MOVF015</u> Equip. Class <sup>1</sup> 8 – Motor-Operated & Solenoid-Op	perated 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 eq. SWEL. The space below each of the following questions may be used to record the results of findings. Additional space is provided at the end of this checklist for documenting other comm	judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>	
Is the anchorage free of bent, broken, missing or loose hardware?      Y⊠ N□ U     No missing or damaged hardware in-line mounted valve	J□ N/A□
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N □ U oxidation?</li> <li>No corrosion visible</li> </ol>	J□ N/A□
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line mounted valve</li> </ul>	J□ N/A⊠

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-025</u>	
Equipment ID No. <u>E22-MOVF015</u> Equip. Class <u>8 – Motor-Operated &amp; </u>	Solenoid-Operated Valve
Equipment Description SUPPRESSION POOL PUMP SUCTION VALVE	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-025</u>	
Equipment ID No. E22-MOVF015 Equip. Class 8 – Motor-Operated 8	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□
<b>Comments</b> (Additional pages may be added as necessary)	
None	
Evaluated by: <u>J. Halsey</u>	Date: <u>10/10/12</u>
D. Bassi	10/10/12

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Seismic Walkdown Checklist (SWC)SV	Status: Y⊠ N□ U□
Equipment ID No. <u>E22-MOVF015</u> Equip. Clas	s 8 – Motor-Operated & Solenoid-Operated Valve
Equipment Description SUPPRESSION POOL PUMP	SUCTION VALVE
Photographs	
Note:	Note:

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-02</u>	25
Equipment ID No. <u>E22-MOVF015</u> Equip. Class	8 – Motor-Operated & Solenoid-Operated Valve
Equipment Description SUPPRESSION POOL PUMP S	UCTION VALVE
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-027
Equipment ID No. E22-PNLS001 Equip. Class¹ 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y⊠ N□ U□ N/A□</li> <li>No missing or damaged anchor bolts/nuts.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A NO VISIBLE CORROSION.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracks in concrete.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-027	
Equipment ID No. E22-PNLS001 Equip. Class 2 – Low Voltage Switch	chgear & Breaker Panels
Equipment Description 125V DC PANEL DIV III	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-027	
Equipment ID No. E22-PNLS001 Equip. Class 2 – Low Voltage Swite	chgear & Breaker Panels
Equipment Description 125V DC PANEL DIV III	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	-
None	
	_
Evaluated by: <u>Jason Halsey</u>	Date: <u>10-5-2012</u>
Brandon Nissing	10-5-2012

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Seismic Walkdown Checklist (SWC)	Status: Y N U U
Equipment ID No. <u>E22-PNLS001</u>	Equip. Class 2 – Low Voltage Switchgear & Breaker Panels
Equipment Description 125V DC PANEL D	DIV III

### **Photographs**





Note:

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Seismic Walkdown Checklist (SWC)	Status: Y N U	
Equipment ID No. <u>E22-PNLS001</u> Equip.	. Class 2 – Low Voltage Switchgear & Breaker Panels	
Equipment Description 125V DC PANEL DIV III		
ATTENDED TO THE PART OF THE PA		
Note:	Note:	

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-028</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Anchorage was fully intact.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Anchorage was painted, no visible corrosion.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracks in concrete.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-028</u>	
Equipment ID No. <u>E22-S001BAT</u> Equip. Class <u>15 – Battery Racks</u>	
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.)  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	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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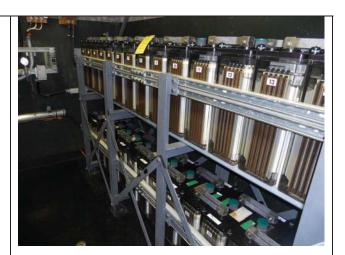
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-028</u>	
Equipment ID No. E22-S001BAT Equip. Class 15 – Battery Racks	
Equipment Description 125V DC DIV III BATTERY	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Evaluated by: <u>Jason Halsey</u>	Date: 10-5-2012
Brandon Nissing	10-5-2012

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Seismic Walkdown Checklist (SWC) <u>SWEL1-028</u>	Status: `	Y⊠ N□ U□
Equipment ID No. <u>E22-S001BAT</u> Equip. Class <u>15 – Battery Racks</u>		
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. <u>E22-S001BAT</u> Equip. Class <u>15 – Battery Racks</u>

Equipment Description 125V DC DIV III BATTERY





Note: Rack mount bolted to the floor

Note: Rack mount welded to floor plates

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-029	
Equipment ID No. E22-S003 Equip. Class 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 Trans	nsformers) Model #317
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documentin	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y⊠ N□
<ol><li>Is the anchorage free of bent, broken, missing or loose hardware? Component is welded to the floor plate.</li></ol>	Y⊠ N□ U□ N/A□
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>All surfaces painted, no visible corrosion.</li> </ol>	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?  No cracks visible.	Y⊠ N□ U□ N/A□

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1-029	
Equipment ID No. E22-S003 Equip. Class 4 – Transformer	
Equipment Description HPCS TRANSFORMER FEEDER	
<ul> <li>5. Is the anchorage configuration consistent 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</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	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	Y⊠ N□ U□
adversely affect the safety functions of the equipment?	
<u>Comments</u> (Additional pages may be added as necessary)	
None	
A Company	
Cyclusted by Josep Helesy	Data: 40 E 2042
Evaluated by: <u>Jason Halsey</u>	Date: 10-5-2012
Brandon Nissing	10-5-2012

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Seismic Walkdown Checklist (SWC)SWEL1	Status: Y⊠ N□ U□
Equipment ID No. <u>E22-S003</u> Equip. Class <u>4 – </u>	Transformer
Equipment Description HPCS TRANSFORMER FEEDER	
Photographs	





Note:

Note:

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Seismic Walkdown Checklist (SWC)	SWEL1-029	Status: Y⊠ N□ U□
Equipment ID No. <u>E22-S003</u>	Equip. Class 4 – Transformer	
Equipment Description HPCS TRANSFOR	RMER FEEDER	



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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-030
Equipment ID No. E22-S004 Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N⊠ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>No broken or missing hardware.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A N/A</li> <li>All surfaces either painted or galvanized.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracking in concrete.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{name}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-030</u>	
Equipment ID No. <u>E22-S004</u> Equip. Class <u>3 – Medium Voltage</u> ,	Metal-clad Switchgear
Equipment Description DIV III 4160V AC SWITCHGEAR	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-030</u>
Equipment ID No. E22-S004 Equip. Class 3 – Medium Voltage, Metal-clad Switchgear
Equipment Description DIV III 4160V AC SWITCHGEAR
Other Adverse Conditions
<ul><li>11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?</li><li>See comments</li></ul>
<u>Comments</u> (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
Evaluated by: <u>Jason Halsey</u> Date: 10-5-2012
Brandon Nissing 10-5-2012

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Seismic Walkdown Checklist (SWC)	Status: Y N U U
Equipment ID No. E22-S004	Equip. Class 3 – Medium Voltage, Metal-clad Switchgear
Equipment Description DIV III 4160V AC S	SWITCHGEAR

# **Photographs**







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SWEL1-030	Status: Y⊠ N□ U□
Equip. Class 3 – Medium Voltage, N	/letal-clad Switchgear
SWITCHGEAR	
Note:	
	Equip. Class 3 – Medium Voltage, M

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-031</u>
Equipment ID No. <u>E22-SKDS001-TK1A</u> Equip. Class <u>1 21 – Tanks and Heat Exchangers</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y N U N/A U</li> <li>N/A U</li> <li>A anchor bolts installed. No bent, broken, missing or loose hardware.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Painted surfaces, no visible corrosion.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Tank is mounted to steel platform.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-031</u>	
Equipment ID No. <u>E22-SKDS001-TK1A</u> Equip. Class <u>21 – Tanks and Heat</u>	Exchangers
Equipment Description DIESEL 1C AIR START RECEIVER TNK	
<ul> <li>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>0221.415-000-141</li> <li>Verified in accordance with above dwg</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting,	Y⊠ N□ U□ N/A□
and masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-031</u>	
Equipment ID No. <u>E22-SKDS001-TK1A</u> Equip. Class <u>21 – Tanks and Heat</u>	Exchangers
Equipment Description DIESEL 1C AIR START RECEIVER TNK	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
A O O	
Evaluated by: <u>Jason Halsey</u>	Date: 10/5/2012
, <u>, , , , , , , , , , , , , , , , , , </u>	
Brandon Nissing	10/5/2012

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Seismic Walkdown Checklist (SWC) SWEL1-031	′⊠ N□ U□
Equipment ID No. <u>E22-SKDS001-TK1A</u> Equip. Class <u>21 – Tanks and Heat Exchangers</u>	
Equipment Description DIESEL 1C AIR START RECEIVER TNK	



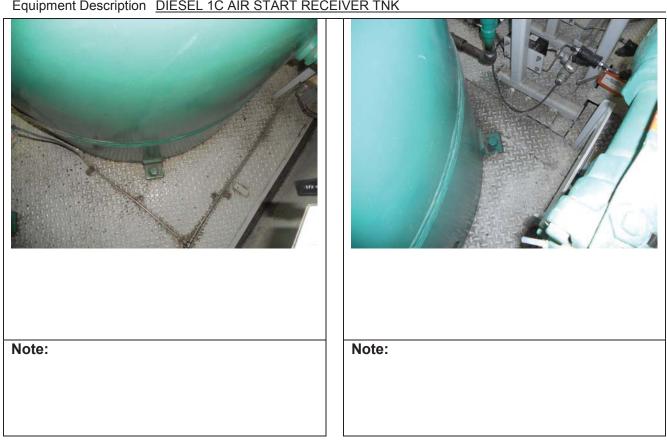
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Status:	$Y \boxtimes$	N	U
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# Seismic Walkdown Checklist (SWC) SWEL1-031

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

Equipment Description DIESEL 1C AIR START RECEIVER TNK



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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-032
Equipment ID No. <u>E51-EC002</u> Equip. Class <u>1 21 – Tanks and Heat Exchangers</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Anchors are in good condition.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ NO visible cracks.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-032</u>	
Equipment ID No. <u>E51-EC002</u> Equip. Class <u>21 – Tanks and Heat</u>	Exchangers
Equipment Description RX CORE ISOL CLG TURB LUBE OIL CLR	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>3221.452-000-001K, pdf page 281.</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-032</u>	
Equipment ID No. <u>E51-EC002</u> Equip. Class <u>21 – Tanks and Heat</u>	Exchangers
Equipment Description RX CORE ISOL CLG TURB LUBE OIL CLR	
Other Adverse Conditions	
11. Have you looked for and found no 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	
Matt Keeney  Evaluated by: Matt Keeney	Date: 10/8/2012
Evaluation by: Imate Hooriey	_ Dato. <u>10/0/2012</u>
LaCay	
Jason Halsey	10/8/2012

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Seismic Walkdown Checklist (SWC) SWEL1-0  Equipment ID No. E51-EC002 Equip. Class	s 21 – Tanks and Heat Exchangers
Equipment Description RX CORE ISOL CLG TURB LL	JBE OIL CLR
Photographs  TUBE 2  HELL3  HE	IIOS * PI-149  ROOT TURING  PRESSIRE CAGE  RESSIRE CAGE  R
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-(</u>	Status: Y⊠ N□ U□
Seisiffic Walkdowif Checklist (SWC)SWELT-0	<u> </u>
Equipment ID No. <u>E51-EC002</u> Equip. Class	s_21 – Tanks and Heat Exchangers
Equipment Description RX CORE ISOL CLG TURB LL	JBE OIL CLR
Note:	Note:

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u> :	32
Equipment ID No. <u>E51-EC002</u> Equip. Class	21 – Tanks and Heat Exchangers
Equipment Description RX CORE ISOL CLG TURB LU	BE OIL CLR
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-032</u>	Status:	Y⊠ N□ U□
Equipment ID No. <u>E51-EC002</u> Equip. Class <u>21 – Tal</u>	nke and Heat Evchangere	
Equipment Description RX CORE ISOL CLG TURB LUBE OIL C	LR	
Note: Note:		

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-034</u>
Equipment ID No. <u>E51-MOVF045</u> Equip. Class <u>1 8 – Motor-Operated &amp; Solenoid-operated Valve</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>All visible anchorage is present and in good condition. Valve body to pipe connection was not visible due to installed insulation.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>No corrosion observed on exposed anchorage.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line mounted valve</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-034</u>	
Equipment ID No. <u>E51-MOVF045</u> Equip. Class <u>8 – Motor-Operated &amp; </u>	Solenoid-operated Valve
Equipment Description RX CORE ISOL CLG TURB STM SPLY ISOL VLV	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-034</u>	
Equipment ID No. <u>E51-MOVF045</u> Equip. Class <u>8 – Motor-Operated &amp; Equip. Class 8 – Motor-Operated &amp; Equip. Class 9 – Motor-Operated &amp; Equip. C</u>	Solenoid-operated Valve
Equipment Description RX CORE ISOL CLG TURB STM SPLY 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□
<b>Comments</b> (Additional pages may be added as necessary)	
None	
Evaluated by: David Bassi	Date: 10-10-2012
· ————————————————————————————————————	
Harry	
Jason Halsey	10-10-2012

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Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>E51-MOVF045</u> Equip. Class	8 - Motor-Operated & Solenoid-operated Valve
Equipment Description RX CORE ISOL CLG TURB ST	M SPLY ISOL VLV
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>E51-MOVF045</u> Equip. 0	Class 8 – Motor-Operated & Solenoid-operated Valve
Equipment Description RX CORE ISOL CLG TURE	STM SPLY ISOL VLV
	CAUTION ASIA
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-035</u>
Equipment ID No. <u>E51-PC001</u> Equip. Class <u>1 5 – Horizontal Pump</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>The anchors are in good condition.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks visible.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-035</u>	
Equipment ID No. <u>E51-PC001</u> Equip. Class <u>5- Horizontal Pump</u>	
Equipment Description RX CORE ISOL CLG PMP	
<ul> <li>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>EC-66A, EC-66E, EC-66G</li> <li>Anchorage matches what is seen on the drawings</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-035</u>	
Equipment ID No. <u>E51-PC001</u> Equip. Class <u>5 – Horizontal Pump</u>	
Equipment Description RX CORE ISOL CLG PMP	
Other Adverse Conditions	
11. Have you looked for and found no 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	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10/8/2012
LaCay	
Jason Halsey	10/8/2012

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Seismic Walkdown Checklist (SWC) SWEL1-C  Equipment ID No. E51-PC001 Equip. Class  Equipment Description RX CORE ISOL CLG PMP	
Photographs	
	DESIGN 1525 140 2 230522 1977 E51001 NB-279
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	Status: Y⊠ N□ U□
Seisiffic Walkdowif Checklist (SWC)SWLL1-	<del>555</del>
Equipment ID No. <u>E51-PC001</u> Equip. Class	s 5– Horizontal Pump
Equipment Description RX CORE ISOL CLG PMP	
Note:	Note:

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Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL1-035
Equipment ID No. <u>E51-PC001</u> Equip. Class <u>5– Horizontal Pump</u>
Equipment Description RX CORE ISOL CLG PMP
Note: Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>E51-PC001</u> Equip. Class	
Equipment Description RX CORE ISOL CLG PMP	
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-037
Equipment ID No. <u>E51-TC002</u> Equip. Class <sup>1</sup> <u>0-Other</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N⊠ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Anchors are in good condition</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A</li></ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-037</u>	
Equipment ID No. <u>E51-TC002</u> Equip. Class <u>0-Other</u>	
Equipment Description RX CORE ISOL CLG TURB	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-037</u>	
Equipment ID No. <u>E51-TC002</u> Equip. Class <u>0-Other</u>	
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	
Matt Keeney	
Evaluated by: M. Keeney	Date: 10/8/12
Lange	
.l Halsev	10/8/12

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Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>E51-TC002</u> Equip. Class	s_0-Other
Equipment Description RX CORE ISOL CLG TURB	
Photographs	
N. 4	
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>E51-TC002</u> Equip. Cla	
Equipment Description RX CORE ISOL CLG TURB	
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-(</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>E51-TC002</u> Equip. Clas	s_0-Other
Equipment Description RX CORE ISOL CLG TURB	
Note:	Note:

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-038</u>
Equipment ID No. EGA-TK1C Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>All 12 bolts are present and engaged.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A</li></ul>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-038</u>	
Equipment ID No. EGA-TK1C Equip. Class 21-Tanks & Heat Exc	hangers
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⊠
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□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-038</u>	
Equipment ID No. EGA-TK1C Equip. Class 21-Tanks & Heat Exc	hangers
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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Evaluated by: <u>D. Bassi</u>	Date: <u>10-2-12</u>
J. R. Klenholderg	
J. Dunkelberg	10-2-12

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Seismic Walkdown Checklist (SWC) <u>SWEL1-(</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EGA-TK1C</u> Equip. Class	s 21-Tanks & Heat Exchangers
Equipment Description SDG AIR START SYS AIR RE	CEIVER TK 1C
Photographs	
2 10:31 AM	2 D:31 AM
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-039</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N⊠ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y⊠ N□ U□ N/A□</li> <li>All 12 bolts present and engaged</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Bolts are painted</li> </ol> Y∑ N☐ U☐ N/A☐
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A</li></ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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Seismic Walkdown Checklist (SWC)SWEL1-039	Status: Y⊠ N□ U□
Equipment ID No. EGA-TK2A Equip. Class 21-Tanks & Heat Exc	changers
Equipment Description SDG AIR START SYS AIR RECEIVER TK 2A	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□

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		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SWEL1-039	
Equipment ID No. EGA-TK2A E	quip. Class_21-Tanks & Heat Exc	hangers
Equipment Description SDG AIR START SY	S AIR RECEIVER TK 2A	
Other Adverse Conditions		
11. Have you looked for and found no othe adversely affect the safety functions of		Y⊠ N□ U□
Comments (Additional pages may be added a	as necessary)	
None		
Evaluated by: D. Bassi		Date: 10-2-12
OPA Land	Deg	
J. Dunkelberg	U	10-2-12

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Seismic Walkdown Checklist (SWC)SV	WEL1-039	Status: Y⊠ N□ U□
Equipment ID No. <u>EGA-TK2A</u> Equip. Class	s 21-Tanks & Heat Exchar	ngers
Equipment Description SDG AIR START SYS AIR RE	CEIVER TK 2A	
Photographs		
e in se an		2 10:30 AM
Note:	Note:	

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		Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC)	SWEL1-039	
Equipment ID No. EGA-TK2A Equi	ip. Class <u>21</u>	
Equipment Description SDG AIR START SYS A	AIR RECEIVER TK 2A	
2 10:31 AM		
Note:	Note:	

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Status	s: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-040	
Equipment ID No. EGE-CAB01A Equip. Class <sup>1</sup> 14-Distribution Panels & Auto T	ransfer 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 SWEL. The space below each of the following questions may be used to record the results findings. Additional space is provided at the end of this checklist for documenting other corr	of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>	3
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware? Y∑ N         Cabinet is welded to the floor.     </li> </ol>	] U N/A
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Surfaces are painted, no visible corrosion.</li> </ol>	] U
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracking at embedment.</li> </ul>	] U N/A

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-040	
Equipment ID No. <u>EGE-CAB01A</u> Equip. Class <u>14 Distribution Panels</u>	s & Auto Transfer Switches
Equipment Description DIV I DG EXCITER CABINET	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-040	
Equipment ID No. <u>EGE-CAB01A</u> Equip. Class <u>14 Distribution Panels</u>	& 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	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10-4-2012
J. P. Menholog	
John Dunkelberg	10-4-2012

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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:

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Oniomia Malkalowa Obnobliot (OMO)	NA/EL 4 0 40	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	WEL1-040	
Equipment ID No. <u>EGE-CAB01A</u> Equip. Cla	ss 14 Distribution Panels &	Auto Transfer Switches
Equipment Description DIV I DG EXCITER CABINET		
Note:	Note:	

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Bolts were all engaged and present</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A NO oxidation?</li> <li>No oxidation or corrosion</li> </ol>
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N□ U□ N/A□ anchors?

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-041</u>	
Equipment ID No. <u>EGF-P1A</u> Equip. Class <u>6-Vertical Pump</u>	
Equipment Description FUEL OIL TRANSFER PUMP	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
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□

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Seismic Walkdown Checklist (SWC) SWEL1-041	Status: Y⊠ N□ U□
· · · <del></del>	
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 observation Pump at approximately 87' Elev.	ns made from 98' Elev.
Evaluated by: J. Dunkelberg	Date: <u>10-2-12</u>
D. Bassi	10-2-12

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Seismic Walkdown Checklist (SWC) <u>SWEL</u>	Status: Y⊠ N□ U□ 1-041
Equipment ID No. <u>EGF-P1A</u> Equip. C	lass 6-Vertical Pump
Equipment Description FUEL OIL TRANSFER PUM	<u>IP</u>
Photographs	
2 10:48 AM	2 10:49 AM
Note:	Note:

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	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1</u>	<u>-041                                    </u>
Equipment ID No. EGF-P1A Equip. Cla	ss_6-Vertical Pump
Equipment Description FUEL OIL TRANSFER PUMP	
2 10:49 AM	
Note:	Note:

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-042</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Suspended tank. Attached to W steel sections that are attached to the wall and braced. Connection is covered in fire proofing</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Steel is coated in fire proofing. No evidence of water.</li> </ol>
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Tank is suspended from the wall.</li> </ol>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-042</u>	
Equipment ID No. <u>EGF-TK2A</u> Equip. Class <u>21-Tanks &amp; Heat Exc</u>	hangers
Equipment Description SDG FUEL OIL DAY TK A	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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	
Are soft targets free from impact by nearby equipment or structures?  No soft targets	Y□ N□ U□ N/A⊠
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-042</u>
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 Y⊠ N□ U□ adversely affect the safety functions of the equipment?
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
D13:
Evaluated by: D. Bassi Date: 10-2-12
J. Dunkelberg
J. Dunkelberg 10-2-12

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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
FUEL DIL DAY TARK  2 10:54
Note: Note:

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Status: Y N U 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	
2.10.55 AM	
Note: Note:	

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Status: Y⊠ N∐ U⌊	
Seismic Walkdown Checklist (SWC) <u>SWEL1-043</u>	
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	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y∑ N☐ of the 50% of SWEL items requiring such verification)?</li> </ol>	
Is the anchorage free of bent, broken, missing or loose hardware?      Y⊠ N□ U□ N/A□  All bolts are fully engaged	
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Bolts are painted</li> </ol> Y∑ N☐ U☐ N/A☐	
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>There were no cracks observed in the concrete.</li> </ul>	
ווופופ איפופ ווט טומטאס טטספו יפט ווו נוופ טטווטופנפ.	

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

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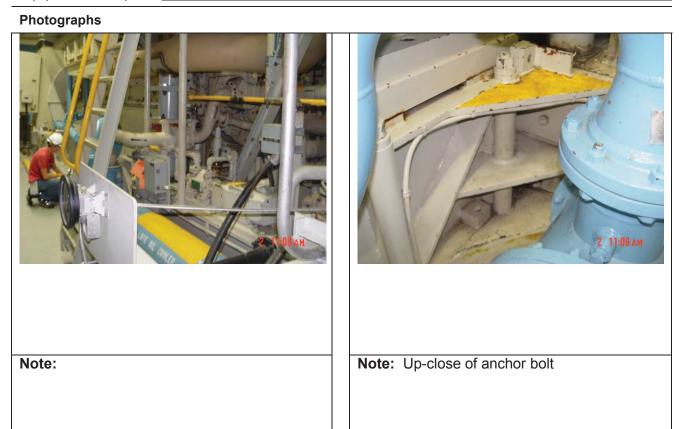
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-043</u>	
Equipment ID No. <u>EGS-EG1A</u> Equip. Class <u>17-Engine Generators</u>	
Equipment Description SDG A ENGINE	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>Dwg Ref. 0244.700-041-005. All anchors present per reference.</li> </ol>	Y⊠ N□ U□ N/A□
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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status:	$Y \boxtimes N \square U \square$
Seismic Walkdown Checklist (SWC) <u>SWEL1-043</u>		
Equipment ID No. <u>EGS-EG1A</u> Equip. Class <u>17-Engine Generators</u>		
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: <u>10-2</u>	2-1 <u>2</u>
1)13		
D. Bassi	<u>10-2</u>	2-12

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Seismic Walkdown Checklist (SWC) <u>SWEL1-043</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EGS-EG1A</u> Equip. Class <u>17-Engine Generators</u>	
Equipment Description SDG A ENGINE	



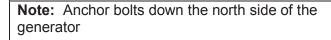
Status: Y⊠ N□ U□

## Seismic Walkdown Checklist (SWC) SWEL1-043

Equipment ID No. <u>EGS-EG1A</u> Equip. Class <u>17-Engine Generators</u>

Equipment Description SDG A ENGINE







**Note:** Southeast corner anchor bolts

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Seismic Walkdown Checklist (SWC) SV	Status: Y⊠ N□ U□
Equipment ID No. <u>EGS-EG1A</u> Equ	
Equipment Description SDG A ENGINE	
2 11:12 AM	
<b>Note:</b> Anchor bolts down the south side of t generator	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-044</u>
Equipment ID No. EGT-E1A Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>All bolting painted, rust free</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A NO rust observed</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks in area observed.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-044</u>	
Equipment ID No. <u>EGT-E1A</u> Equip. Class <u>21-Tanks &amp; Heat Exc</u>	hangers
Equipment Description SDG CLG SYS JACKET WTR CLR A	
<ol> <li>Is the anchorage configuration consistent 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, 0244.700-041-018H, 0244.700-041-124,     0244.700-041-125     Verified in accordance with above dwgs.</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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0.1	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-044	
Equipment ID No. <u>EGT-E1A</u> Equip. Class <u>21-Tanks &amp; Heat Exch</u>	nangers
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	
None	
Evaluated by: J. Dunkelberg	Date: 10-2-12
J-173-	
D. Bassi	10-2-12

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Seismic Walkdown Checklist (SWC) SWEL1-04	Status: Y⊠ N□ U□
Equipment ID No. <u>EGT-E1A</u> Equip. Class	21-Tanks & Heat Exchangers
Equipment Description SDG CLG SYS JACKET WTR C	ELR A
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EGT-E1A</u> Equip. Cl	ass 21-Tanks & Heat Exchangers
Equipment Description SDG CLG SYS JACKET WT	R CLR A
2 11:01/4	2 11.86.4
Note:	Note:

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Seismic Walkdown Checklist (SWC)S	SWEL1-044	Status: Y⊠ N□ U□
Equipment ID No. <u>EGT-E1A</u> Eq		angers
Equipment Description SDG CLG SYS JACKI	ET WTR CLR A	
2 11:00		2 11:01 AH
Note:	Note:	

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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
2 TROTAN
Note: Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-045
Equipment ID No. <u>EHS-MCC14A</u> Equip. Class¹ 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Welded to floor sill plate.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracks in concrete.</li> </ul>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-045</u>	
Equipment ID No. EHS-MCC14A Equip. Class 1-Motor Control Center	er & Wall Mounted Contactors
Equipment Description STANDBY SWGR RM 1A / 1B 480V MCC14A / B	
<ul> <li>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>248.000, EE-038A</li> <li>Verified in accordance with above dwgs</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
Interaction Effects	
Interaction Effects  7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-045</u>	
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? See comments	Y□ N⊠ U□
Comments (Additional pages may be added as necessary)	
See attached list of open items that need a WO / CR written. (typed out be	elow)
WR to adjust latch handle EHS-MCC14A cubical so door can be open wit	•
Door top hinge not attached completely, pin present on breaker 2AT & 2A screw latches on right. Size of door is approx 12"x12"	B two hinge on door, two
Control power Transformer – screw hole in bottom right missing screw. Lo had a screw, red "paint" behind hole. Occurred in cubicles 2C, 4A, 4C, 4D screw in cubicle 4B	
Ref. CR-RBS-2012-6323; LB-09	
Evaluated by: David Bassi	Date: <u>10-4-2012</u>
John Dunkalhara	10 4 2012
John Dunkelberg	<u>10-4-2012</u>

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Seismic Walkdown Checklist (SWC) <u>SWEL1-045</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EHS-MCC14A</u> Equip. Class <u>1-Motor Control Cente</u>	r & Wall Mounted Contactors
Equipment Description STANDBY SWGR RM 1A / 1B 480V MCC14A / B	
Photographs	







Note:			

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-046
Equipment ID No. <u>EHS-MCC15A</u> Equip. Class¹ 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>MCC is welded to floor.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks observed in the concrete floor.</li> </ul>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-046</u>	
Equipment ID No. <u>EHS-MCC15A</u> Equip. Class <u>1-Motor Control Cente</u>	er & Wall Mounted Contactors
Equipment Description DIESEL GEN RM A MCC15A	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□		
Seismic Walkdown Checklist (SWC) <u>SWEL1-046</u>			
Equipment ID No. <u>EHS-MCC15A</u> Equip. Class <u>1-Motor Control Center</u>	r & 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? See Comments	Y⊠ N□ U□		
<u>Comments</u> (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. P. Manholag	40.4.0040		
John Dunkelberg 🗸	<u>10-4-2012</u>		

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Seismic Walkdo	wn Checklist (SWC)	SWEL1-04	6	Status: Y⊠	N U
Equipment ID No.	EHS-MCC15A	Equip. Class_	1-Motor Control Center	& Wall Mounted (	Contactors
Equipment Descrip	tion DIESEL GEN RM	A MCC15A			

## **Photographs**







Note:

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Seismic Walkdown Checklist (SWC) SW	Status: Y⊠ N□ U□
	p. Class 1-Motor Control Center & Wall Mounted Contactors
Equipment Description DIESEL GEN RM A MCG	C15A
Note:	Note:

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Status: Y⊠ N⊡ U⊡			
Seismic Walkdown Checklist (SWC) SWEL1-047			
Equipment ID No. <u>EHS-MCC16A</u> Equip. Class¹ 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			
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>			
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>MCC is welded to floor sill.</li> </ol>			
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A</li></ol>			
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks visible in the floor.</li> </ul>			

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-047</u>	
Equipment ID No. <u>EHS-MCC16A</u> Equip. Class <u>1-Motor Control Center</u>	r & Wall Mounted Contactors
Equipment Description STANDBY CLG TOWER 1 MTR CNTRL CENTER 16A	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>Welded per 248.000, EE-038K, EC-047BE</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□		
Seismic Walkdown Checklist (SWC) <u>SWEL1-047</u>			
Equipment ID No. <u>EHS-MCC16A</u> Equip. Class <u>1-Motor Control Center</u>	* & 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? See comments	Y□ N⊠ U□		
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			
Matt Keeney			
Evaluated by: Matt Keeney	Date: <u>10-4-2012</u>		
John Dunkelberg	10-4-2012		
John Dunkelberg	10-7-2012		

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Seismic Walkdown Checklist (SWC) SWEL1-04  Equipment ID No. EHS-MCC16A Equip. Class	
Equipment Description STANDBY CLG TOWER 1 MTR	R CNTRL CENTER 16A
Photographs	
DK-20FF	
Note:	Note:

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Seismic Walkdown Checklist (SWC)	SWEL1-04	Status: Y⊠ N□ U□
Equipment ID No. EHS-MCC16A	Equip. Class_	1-Motor Control Center & Wall Mounted Contactors
Equipment Description STANDBY CLG TO	OWER 1 MTR	CNTRL CENTER 16A
No.		No.40
Note:		Note:

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>MCC is welded to sill</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>Painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ NO visible cracks</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-048</u>	
Equipment ID No. <u>EHS-MCC2B</u> Equip. Class <u>1-Motor Control Center</u>	er & Wall Mounted Contactors
Equipment Description EHS-MCC2B AUX BLDG	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Status: Y⊠ N□ U□			
Seismic Walkdown Checklist (SWC) <u>SWEL1-048</u>			
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 Y N U U adversely affect the safety functions of the equipment? See comments			
<u>Comments</u> (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			
Evaluated by: M. Keeney  Date: 10/10/12			
Laure Joint Caure			
J. Cardona / 10/10/12			

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Seismic Walkdown Checklist (SWC)	SWEL1-048	Status: Y⊠ N□ U□
Equipment ID No. <u>EHS-MCC2B</u>	Equip. Class 1-Motor Control Center 8	Wall Mounted Contactors
Equipment Description EHS-MCC2B AUX	BLDG	

## **Photographs**







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Seismic Walkdo	wn Checklist (SWC)	SWEL1-048	Status:	Y⊠ N□ U□
Equipment ID No.	EHS-MCC2B	Equip. Class 1		

Equipment Description EHS-MCC2B AUX BLDG





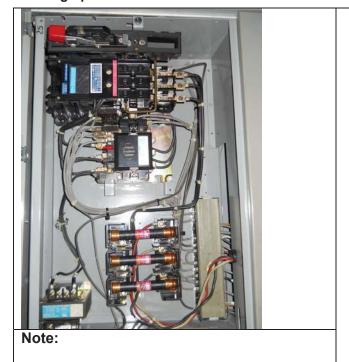


Note:

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Seismic Walkdown Checklist (SWC)		Status: Y⊠ N□ U□
Equipment ID No. EHS-MCC2B	Equip. Class 1-Motor Control Center &	Wall Mounted Contactors
Equipment Description EHS-MCC2B AUX	BLDG	

# Photographs





Note:

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Seismic Walkdown Checklist (SWC) SWEL1-	Status: Y⊠ N□ U□
Equipment ID No. <u>EHS-MCC2B</u> Equip. Class	s 1-Motor Control Center & Wall Mounted Contactors
Equipment Description EHS-MCC2B AUX BLDG	
Photographs	
	OK 2- OFF 4
Note:	Note:

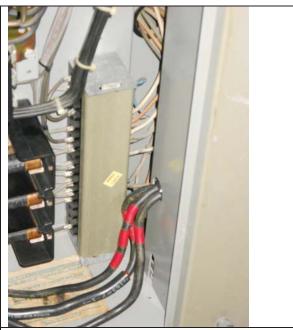
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Seismic Walkdown Checklist (S	WC) <u>SWEL1-048</u>	Status: Y⊠ N□ U□
Equipment ID No. EHS-MCC2B	Equip. Class 1-Motor Control Cent	ter & Wall Mounted Contactors
Equipment Description EHS-MCC2B	3 AUX BLDG	

## **Photographs**







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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC)SWEL1-049
Equipment ID No. EHS-MCC2L Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N⊠         of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Welded to sill</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A Painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible crack.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-049	
Equipment ID No. <u>EHS-MCC2L</u> Equip. Class <u>1-Motor Control Cent</u>	er & Wall Mounted Contactors
Equipment Description AUXILIARY BUILDING MCC2L	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Seismic Walkdown Checklist (SW	C)SWEL1-049	Status: Y⊠ N UU	
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?  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.

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Seismic Walkdown Checklist (SWC)SWEL1-049	Status: Y⊠ N□ U□		
Equipment ID No. <u>EHS-MCC2L</u> Equip. Class <u>1-Motor Control Center</u>	er & Wall Mounted Contactors		
Equipment Description AUXILIARY BUILDING MCC2L			
Matt Keeney  Evaluated by: Matt Keeney	Date: 10/5/2012		
John Dunkelberg  Date: 10/5/2012			

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Seismic Walkdown Checklist (SWC) <u>SWI</u>	Status: Y⊠ N☐ U☐
Equipment ID No. <u>EHS-MCC2L</u> Equip	. Class 1-Motor Control Center & Wall Mounted Contactors
Equipment Description AUXILIARY BUILDING M	CC2L
Photographs	
Notes	Mato
Note:	Note:

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	Equip. Class	Status: Y N U  1-Motor Control Center & Wall Mounted Contactors
Equipment Description AUXILIARY BUILD	ING MCC2L	
ON COFF 4		
Note:		Note:

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Seismic Walkdown Checklist (SWC) _	Status: Y N U U
Equipment ID No. <u>EHS-MCC2L</u> E	Equip. Class 1-Motor Control Center & Wall Mounted Contactors
Equipment Description AUXILIARY BUILDIN	ING MCC2L
ON COLF	
Note:	Note:

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Seismic Walkdown Checklist (SWC)  Equipment ID No. EHS-MCC2L E		Status: Y⊠ N⊡ U - or Control Center & Wall Mounted Contactor	
Equipment Description AUXILIARY BUILDIN	NG MCC2L		
4C ON Sound OFF			
Note:	Note:		

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Seismic Walkdown Checklist (SWC)	SWEL1-049		atus: Statu	ıs: Y⊠ N	1□ U□
Equipment ID No. EHS-MCC2L	Equip. Class_	1-Motor Control Ce	nter & Wall I	Mounted C	ontactors
Equipment Description AUXILIARY BUILD	ING MCC2L				
ContratCenter R W/ QIRCUIT BREARER		ON GOL	COFF	4 AA  4 material land land land land land land land la	
Note:		Note:			

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Seismic Walkdown Checklist (SWC) <u>SWEL1</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EHS-MCC2L</u> Equip. Cla	ass_1-Motor Control Center & Wall Mounted Contactors
Equipment Description AUXILIARY BUILDING MCC2	?L
ON 201F	
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u>	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>EHS-MCC2L</u> Equip. Class Equipment Description <u>AUXILIARY BUILDING MCC2L</u>	s 1-Motor Control Center & Wall Mounted Contactors
	ON POFF CORRECTION OF THE POPPER OF THE POPP
Note:	Note:

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Seismic Walkdown Checklist (SWC)	SWEL1-049	Status: Y⊠ N□ U□
Equipment ID No. EHS-MCC2L	Equip. Class 1-	-Motor Control Center & Wall Mounted Contactors
Equipment Description AUXILIARY BUILD	ING MCC2L	
Note:	No	lote:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-051
Equipment ID No. EJS-LDC2A Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y∑ N☐ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Cubical – the rails are in place and in good condition.</li> <li>MCC – welded to sill</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A NO NO</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks visible.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-051</u>	
Equipment ID No. <u>EJS-LDC2A</u> Equip. Class <u>3-Medium voltage, Me</u>	tal-clad Switchgear
Equipment Description REMOTE SHUTDOWN SYSTEM CONTROL POWER:	1HVR*UC11A,1HVR*UC1A
<ul> <li>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>EE-038E, 248.000</li> <li>Verified in accordance with above dwgs</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-051</u>	
Equipment ID No. EJS-LDC2A Equip. Class_3-Medium voltage, Meta	al-clad Switchgear
Equipment Description REMOTE SHUTDOWN SYSTEM CONTROL POWER: 1	HVR*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? See Comments	Y⊠ N□ U□
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 of the rails. Not a seismic concern. Housekeeping (foreign material)	e (resting on shelf) outside
Ref. CR-RBS-2012-06686 WR 00287361 initiated.	
Matt Keeney  Evaluated by: Matt Keeney	Date: <u>10/5/2012</u>
John Dunkalhara	
John Dunkelberg	10/5/2012

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Seismic Walkdown Checklist (SWC) <u>SWEL1</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EJS-LDC2A</u> Equip. Cla	ss_3-Medium voltage, Metal-clad Switchgear
Equipment Description REMOTE SHUTDOWN SYST	EM CONTROL POWER: 1HVR*UC11A,1HVR*UC1A
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) _	Status: Y Swell-051	N U
Equipment ID No. <u>EJS-LDC2A</u> E	Equip. Class 3-Medium voltage, Metal-clad Switchgea	ar
Equipment Description REMOTE SHUTDON	OWN SYSTEM CONTROL POWER: 1HVR*UC11A,1H	√R*UC1A
Note:	Note:	

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Seismic Walkdown Checklist (SWC) SWEL1	Status: Y⊠ N□ U□
Equipment ID No. <u>EJS-LDC2A</u> Equip. Cla	ss_3-Medium voltage, Metal-clad Switchgear
Equipment Description REMOTE SHUTDOWN SYST	EM CONTROL POWER: 1HVR*UC11A,1HVR*UC1A
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	Status: Y⊠ N⊡ U⊡ <b>051</b>
Equipment ID No. <u>EJS-LDC2A</u> Equip. Class	ss 3-Medium voltage, Metal-clad Switchgear
Equipment Description REMOTE SHUTDOWN SYSTE	EM CONTROL POWER: 1HVR*UC11A,1HVR*UC1A
Note:	Note:

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Welded to floor sills.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>Painted surfaces</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks observed.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-052</u>	
Equipment ID No. <u>EJS-SWG1A</u> Equip. Class <u>3-Medium Voltage, Mo</u>	etal-clad Switchgear
Equipment Description STANDBY SWGR RM 1A 480V SWG1A	
<ul> <li>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>248.000, EE-38A</li> <li>Verified in accordance with above dwgs</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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

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Seismic Walkdown Checklist (SWC) <u>SWEL1-052</u> Status: Y⊠ N□ U□
Equipment ID No. EJS-SWG1A Equip. Class 3-Medium Voltage, Metal-clad Switchgear
Equipment Description STANDBY SWGR RM 1A 480V SWG1A
Photographs
Note: Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-053</u>
Equipment ID No. EJS-X1A Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Welded to floor sills.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Painted surfaces, no corrosion.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ NO cracks observed.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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0.1	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-053</u>	
Equipment ID No. EJS-X1A Equip. Class 4-Transformer	
Equipment Description STANDBY SWGR ROOM 1A SWGR 1A PWR XFORM	R 1A
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Seismic Walkdown Checklist (SWC) <u>SWEL1-053</u>	Status: Y⊠ N□ U□
Equipment ID No. EJS-X1A Equip. Class 4-Transformer	
Equipment Description STANDBY SWGR ROOM 1A SWGR 1A PWR XFORM	R 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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Evaluated by: John Dunkelberg	Date: <u>10-4-2012</u>
1)1/5	
David Bassi	10-4-2012

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Seismic Walkdown Checklist (SWC) <u>SWEL</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EJS-X1A</u> Equip. C	
Equipment Description STANDBY SWGR ROOM 1.	
Photographs	
Note:	Note:

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Status: Y⊠ N⊡ U⊡			
Seismic Walkdown Checklist (SWC) SWEL1-054			
Equipment ID No. EJS-X2A Equip. Class 1 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			
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N☐ of the 50% of SWEL items requiring such verification)?</li> </ol>			
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y⊠ N□ U□ N/A□</li> <li>Welded to floor sill.</li> </ol>			
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A Painted</li> </ol>			
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A</li></ul>			

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-054</u>	
Equipment ID No. EJS-X2A Equip. Class 4	
Equipment Description AUX BLDG STANDBY SWGR 2A PWR XFORMR	
<ul> <li>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>Spec 248.000, EE-038E</li> <li>Verified in accordance with above dwgs</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
Intercetion Effects	
Interaction Effects  7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Seismic Walkdown Checklist (SWC) <u>SWEL1-054</u>	Status: Y⊠ N□ U□
`	
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	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10/5/2012
J. R. Kunhlaug	
John Dunkelberg	10/5/2012

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Seismic Walkdown Checklist (SWC)	SWEL1-054	Status:	Υ⊠	N□	U
Equipment ID No. EJS-X2A	Equip. Class 4-Transformer				
Equipment Description AUX BLDG STANI	DBY SWGR 2A PWR XFORMR				
Photographs					
Note:	Note:				

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Seismic Walkdown Checklist (SWC) <u>SWEL1-054</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EJS-X2A</u> Equip. Class <u>4</u>	
Equipment Description AUX BLDG STANDBY SWGR 2A I	
Note:	ote:

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Status: Y⊠ N⊡ U⊡			
Seismic Walkdown Checklist (SWC) SWEL1-055			
Equipment ID No. EJS-X3A Equip. Class 1 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			
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>			
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Transformer is welded to sill plate.</li> </ol>			
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Painted surfaces, no visible corrosion.</li> </ol>			
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A</li></ul>			

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-055</u>	
Equipment ID No. EJS-X3A Equip. Class 4-Transformer	
Equipment Description N/A	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>EE-038K, EC-047BH, 0242.533-265-142</li> </ol>	Y⊠ N□ U□ N/A□
Plug welds on the inside of transformer case could not be visually verified.	
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□

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		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC	) <u>SWEL1-055</u>	
Equipment ID No. EJS-X3A	Equip. Class 4-Transformer	
Equipment Description N/A		
Other Adverse Conditions		
<ol> <li>Have you looked for and found no adversely affect the safety function</li> </ol>		Y⊠ N□ U□
Comments (Additional pages may be add	ded as necessary)	
None		
Matt	Keeney	
Evaluated by: Matt Keeney		Date: 10-4-2012
J. B.	Munhorg	
John Dunkelberg	U	10-4-2012

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Seismic Walkdown Checklist (SWC) SV	WEL1-055	Status: Y⊠ N□ U□
Equipment ID No. EJS-X3A Equ	uip. Class 4-Transformer	
Equipment Description N/A		
Photographs		
Note:	Note:	

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Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EJS-X3A</u> Equip. Class	ss_ 4-Transformer
Equipment Description N/A	
	Southern Programme compare TYPE AA THESE TRADE THE ADDRESS OF THE
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-056</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y∑ N☐ of the 50% of SWEL items requiring such verification)?</li> </ol>
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 Y⊠ N□ U□ N/A□ oxidation? painted
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks visible</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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Onionnia Walladanna Olarabliat (OWO) - OWEL 4 050	Status: Y□ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-056</u>	
Equipment ID No. <u>ENB-BAT01A</u> Equip. Class <u>15-Battery Racks</u>	
Equipment Description STANDBY BUS A 125 VOLTS DIRECT CURRENT SY	'S BATTERY BANK 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.) EE-038C, EE-038AA Verified in accordance with above dwgs Missing 2 weldments to sills at battery 42 and 38	Y□ N⊠ U□ N/A□
<ol> <li>Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> <li>Missing 2 welds, see Q 5 above</li> </ol>	Y□ N⊠ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Light fixture "S" hook closed	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-056</u>	
Equipment ID No. <u>ENB-BAT01A</u> Equip. Class <u>15-Battery Racks</u>	
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? See comments	Y⊠ N□ U□
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. Cond design/licensing basis.	ition in compliance with
Evaluated by: John Dunkelberg	Date: 10/4/2012
David Bassi	10/4/2012

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Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>ENB-BAT01A</u> Equip. Class	s_15-Battery Racks
Equipment Description STANDBY BUS A 125 VOLTS	DIRECT CURRENT SYS BATTERY BANK 1A
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-056</u>	U
Equipment ID No. ENB-BAT01A Equip. Class 15-Battery Racks	
Equipment Description STANDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATTERY BANK 1A	
MEND BATOLAS	A STATE OF THE PARTY OF THE PAR



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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-057</u>
Equipment ID No. ENB-CHGR1A Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Welded to embed plate</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A D N/A</li> <li>painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ NO cracks visible</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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Seismic Walkdown Checklist (SWC) <u>SWEL1-057</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>ENB-CHGR1A</u> Equip. Class_16-Battery Chagers at	nd Inverters
Equipment Description STDBY BUS A 125 VOLTS DIRECT CURRENT SYS B	
<ul> <li>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>EE-038C, 248.000</li> <li>Verified in accordance with the above dwgs</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□  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,	Y⊠ N□ U□ N/A□
and masonry block walls not likely to collapse onto the equipment?	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL1-057	
Equipment ID No. <u>ENB-CHGR1A</u> Equip. Class <u>16-Battery Chagers and Inverters</u>	
Equipment Description STDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATRY BANK 1A CHARGER 1A	<u> </u>
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could Y N U U adversely affect the safety functions of the equipment? See comments	
<u>Comments</u> (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	

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Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>ENB-CHGR1A</u> Equip. Class	s 16-Battery Chagers and Inverters
Equipment Description STDBY BUS A 125 VOLTS DIR	ECT CURRENT SYS BATRY BANK 1A CHARGER
Photographs	
Note:	Note:

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Status: Y N Seismic Walkdown Checklist (SWC) SWEL1-057	U
Equipment ID No. <u>ENB-CHGR1A</u> Equip. Class <u>16-Battery Chagers and Inverters</u>	
Equipment Description STDBY BUS A 125 VOLTS DIRECT CURRENT SYS BATRY BANK 1A CHARG 1A	<u>ER</u>
Note: Note:	

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-058</u>
Equipment ID No. ENB-INV01A Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Welded to structure framework base plate anchored to floor with expansion anchors.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-058</u>	
Equipment ID No. <u>ENB-INV01A</u> Equip. Class <u>16-Battery Chagers a</u>	nd Inverters
Equipment Description ENB*INV01A VITAL BUS A INVERTER	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Onionaio Walladanna Olasaldiat (OWO) - OWEL 4 050	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-058	
Equipment ID No. <u>ENB-INV01A</u> Equip. Class <u>16-Battery Chagers ar</u>	nd 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? See comments	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Could not open component for interior inspection. Back side attachment in	not visible.
Evaluated by: John Dunkelberg	Date: <u>10/4/2012</u>
1)173.	
David Bassi	10/4/2012

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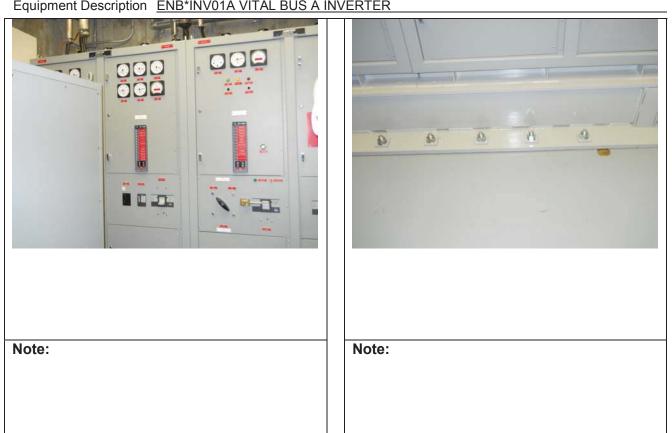
Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>ENB-INV01A</u> Equip. Class	ss 16-Battery Chagers and Inverters
Equipment Description ENB*INV01A VITAL BUS A IN	VERTER
Photographs	
	ENB-INVOIA CONTRACTOR TO THE STATE OF THE ST
Note:	Note:

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Seismic Walkdown Checklist (SWC) SWEL1-05		Y⊠ N□ U□
Equipment ID No. <u>ENB-INV01A</u> Equip. Class	16-Battery Chagers and Inverters	
Equipment Description ENB*INV01AVITAL BUS A INVE	ERTER	
Note:	Note:	

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Seismic Walkdown Checklist (SWC) <u>SWEL1-058</u>	Status:	Y⊠ N□ U□	]	
Equipment ID No. <u>ENB-INV01A</u> Equip. Class <u>16-Battery Chagers and</u>	Inverters			
Equipment Description ENB*INV01A VITAL BUS A INVERTER				
			П	



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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
Location: Bldg. <u>CB</u> Floor El. <u>098</u> Room, Area <u>1117</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y∑ N☐ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Welded to sill plate.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Painted, no corrosion</li> </ol> Y∑ N☐ U☐ N/A☐
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N □ □ N/A□ N □ □ N/A□</li> <li>No cracks observed in concrete.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-061	
Equipment ID No. <u>ENB-SWG01A</u> Equip. Class <u>2-Low Voltage Switch</u>	ngear & Breaker Panel
Equipment Description 125V DC SWITCHGEAR 1A	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>248.000, EE-038A</li> <li>Verified in accordance with above dwgs</li> </ol>	Y⊠ N□ U□ N/A□
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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SWEL1-061	
Equipment ID No. <u>ENB-SWG01A</u>	Equip. Class 2-Low Voltage Switchg	ear & Breaker Panel
Equipment Description 125V DC SWITCH	IGEAR 1A	
Other Adverse Conditions		
11. Have you looked for and found no of adversely affect the safety functions. See comments		Y⊠ N□ U□
<u>Comments</u> (Additional pages may be adde	ed as necessary)	
ENB-SWG01A ACB570 observed p housekeeping item.	pieces of white material resembling insi	ulation (hard). Judged to be
Ref CR-RBS-2012-6526 WR 00287352		
Evaluated by: John Dunkelberg	fundling	Date: 10-4-2012
	3	
Evaluated by: John Dunkelberg  David Bassi	Linkberg Bi	Date: 10-4-2012

Otatus. II/ II III I OI I	Status:	YX	Ν	U		
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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:

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-062</u>
Equipment ID No. ENS-SWG1A Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Switchgear is welded to sill.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracks in concrete.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-062</u>	
Equipment ID No. <u>ENS-SWG1A</u> Equip. Class <u>3-Medium Voltage, Medium Voltage, M</u>	etal-clad Switchgear
Equipment Description 4160V STANDBY SWGR BUS 1A	
<ul> <li>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>0242.521-102-002, EC-058C</li> <li>Verified in accordance with above dwgs</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-062</u>	
Equipment ID No. ENS-SWG1A Equip. Class 3-Medium Voltage, Me	etal-clad Switchgear
Equipment Description 4160V STANDBY SWGR BUS 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? See comments	Y□ N⊠ U□
<u>Comments</u> (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	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10-4-2012
John Dunkelberg	10-4-2012
COLLY DUTINGIDORY	10 7 2012

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Seismic Walkdown Checklist (SWC) _	Status: Y N U U
Equipment ID No. <u>ENS-SWG1A</u>	Equip. Class 3-Medium Voltage, Metal-clad Switchgear
Equipment Description 4160V STANDBY S	SWGR BUS 1A

## **Photographs**







Note:

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Status: Y⊠ N⊡ U⊡ Seismic Walkdown Checklist (SWC) <u>SWEL1-062</u>
Equipment ID No. ENS-SWG1A Equip. Class 3-Medium Voltage, Metal-clad Switchgear
Equipment Description 4160V STANDBY SWGR BUS 1A
Note: Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-063</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N☐ of the 50% of SWEL items requiring such verification)?</li> </ol>
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.
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>N□ U□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A</li></ol>
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Anchor to floor framing steel.</li> </ol>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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Seismic Walkdown Checklist (SWC) SWEL1-063	Status: Y⊠ N□ U□
Equipment ID No. <u>H13-P693</u> Equip. Class <u>20-Instrumentation a</u>	and Control Panel
Equipment Description RPS LOGIC DIV C	
5. Is the anchorage configuration consistent 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. doc: 8224-600-000-048A. No documentation for number of bolts in panel attachment. Bolts installed in all holes in panel and support structure.	Y□ N⊠ U□ N/A□
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? Suspended ceiling over head is designed for seismic event.	Y⊠ N□ U□ N/A□
<ol> <li>Do attached lines have adequate flexibility to avoid damage?</li> <li>Sufficient slack provided in bottom entry cables.</li> </ol>	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-063</u>	
Equipment ID No. <u>H13-P693</u> Equip. Class <u>20-Instrumentation and Equipment ID No. H13-P693</u>	d 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? Temp. work table set up on front side of panel, potential interaction with panel switches/instruments. See AWC-1063 for photos and evaluation.	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Ref. CR-RBS-2012-6238 for lack of documentation issue Ref. LB-03	
Evaluated by: John Dunkelberg	Date: <u>10-1-2012</u>
Jose` Cardona	10-1-2012

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Seismic Walkdown Checklist (SWC) SWEL1  Equipment ID No. H13-P693 Equip. Cla  Equipment Description RPS LOGIC DIV C	
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-063</u>

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

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-064</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>4 bolted connections mounting the panel to unistrut. No bent, broken, loose, or missing hardware.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>No visible corrosion.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Panel is mounted to unistrut.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-064</u>	
Equipment ID No. <u>H22-P004</u> Equip. Class <u>18-Instrument Racks</u>	
Equipment Description RX VSL LEVEL AND PRESS LOCAL PNL A	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-064</u>	
Equipment ID No. <u>H22-P004</u> Equip. Class <u>18-Instrument Racks</u>	
Equipment Description RX VSL LEVEL AND PRESS LOCAL PNL 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□
<b>Comments</b> (Additional pages may be added as necessary)	
None	
Evaluated by: Jason Halsey	Date: 10-9-2012
Evaluated by: Jason Halsey	Date. 10-9-2012
Matt Keeney	
Matt Keeney	10-9-2012

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Seismic Walkdown Checklist (SWC) <u>SWEL1-064</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>H22-P004</u> Equip. Class <u>18-Instrument Racks</u>	
Equipment Description RX VSL LEVEL AND PRESS LOCAL PNL A	
Photographs	





Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-06</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>H22-P004</u> Equip. Class	
Equipment Description RX VSL LEVEL AND PRESS LO	
Note:	Note:

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	Status: Y⊠ N□ U□		
Seismic Walkdown Checklist (SWC) <u>SWEL1-065</u>			
Equipment ID No. <u>HVC-ACU1A</u> 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			
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Y□ N⊠		
Is the anchorage free of bent, broken, missing or loose hardware?  No missing, loose or broken hardware.	Y⊠ N□ U□ N/A□		
Is the anchorage free of corrosion that is more than mild surface oxidation?  All anchorage bolts/nuts have a coating of paint.	Y⊠ N□ U□ N/A□		
anchors?	Y⊠ N□ U□ N/A□		
No visible cracks in concrete pad and concrete is painted, minor honeycomb.			

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-065</u>	
Equipment ID No. <u>HVC-ACU1A</u> Equip. Class <u>10-Air Handlers</u>	
Equipment Description CONTROL ROOM AIR HLDG UNIT ACU1A	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-065</u>	
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□
O a mare and a (A dell'Esperiment and a second a second and a second and a second and a second and a second a	
Comments (Additional pages may be added as necessary)	
None	
$\mathcal{A}_{\mathcal{O}}$	
The same of the sa	
Evaluated by: <u>Jason Halsey</u>	Date: 10/2/2012
Matt Keeney	
Matt Keeney	10/2/2012

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Status: Y N U 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:

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Seismic Walkdown Checklist (SWC)		Status:	Y⊠ N□	U
Equipment ID No. <u>HVC-ACU1A</u>	Equip. Class 10-Air Handlers			
Equipment Description, CONTROL ROOM	AIR HI DG LINIT ACLI1A			







Note:

		Status:	$Y \boxtimes N \square U \square$
Seismic Walkdown Checklist (SWC) _	SWEL1-065		

Equipment ID No. <u>HVC-ACU1A</u> Equip. Class <u>10-Air Handlers</u>

Equipment Description CONTROL ROOM AIR HLDG UNIT ACU1A







Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-066
Equipment ID No. HVC-ACU2A Equip. Class 1 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) <u>Buffalo Forge Model 29B5</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>ACU is Bolted to a raised concrete pad on all four sides.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>Painted, no corrosion.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A</li></ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-066</u>	
Equipment ID No. <u>HVC-ACU2A</u> Equip. Class <u>10-Air Handlers</u>	
Equipment Description CONTROL BLDG AIR HLDG UNIT ACU2A	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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	
<ol> <li>Are soft targets free from impact by nearby equipment or structures?</li> <li>ACU is not a soft target. Large duct pieces are installed over the ACU but are supported by very rigid support structures.</li> </ol>	Y⊠ N□ U□ N/A□
<ol> <li>Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?</li> <li>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</li> </ol>	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Attached cables and attached ducts are either flexible or are attached with flexible ductwork (expansion joint).	
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-066</u>	
Equipment ID No. <u>HVC-ACU2A</u> Equip. Class <u>10-Air Handlers</u>	
Equipment Description CONTROL BLDG AIR HLDG UNIT ACU2A	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Evaluated by: A.S. Dalawari	Date: 10/1/2012
Evaluated by. <u>A.O. Dalawali</u>	Date. 10/1/2012
Matt Keeney	
Matt Keeney	10/1/2012

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Seismic Walkdown Checklist (SWC) <u>SWEL</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>HVC-ACU2A</u> Equip. Cl	ass_10-Air Handlers
Equipment Description CONTROL BLDG AIR HLDG	UNIT ACU2A
Photographs	
1 2:01PM	

Note:

Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-06</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>HVC-ACU2A</u> Equip. Class_	10-Air Handlers
Equipment Description CONTROL BLDG AIR HLDG UN	IIT ACU2A
2:02 PM	1 2.12 PH
Note:	Note:

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Status: Y⊠ N□ U□ Seismic Walkdown Checklist (SWC) SWEL1-066
Seisific Walkdown Checklist (SWC) SWELT-000
Equipment ID No. <u>HVC-ACU2A</u> Equip. Class <u>10-Air Handlers</u>
Equipment Description CONTROL BLDG AIR HLDG UNIT ACU2A
1 2:03 PM
Note: Note:

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Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL1-066		
Equipment ID No. <u>HVC-ACU2A</u> Equip. Cla	ass_10-Air Handlers	
Equipment Description CONTROL BLDG AIR HLDG	UNIT ACU2A	
1 2:03 PM	1 2:04РМ	
Note:	Note:	

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-t</u>	066
Equipment ID No. <u>HVC-ACU2A</u> Equip. Class	ss_ 10-Air Handlers
Equipment Description CONTROL BLDG AIR HLDG L	JNIT ACU2A
TO THE PARTY OF TH	1 2:04 PM
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-067</u>
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) <u>Buffalo Forge Model 29B5</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>No bent, broken, missing, or loose hardware</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>All surfaces are painted</li> </ol>
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Heavy painted concrete pad, no cracks visible.</li> </ol>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-067</u>	
Equipment ID No. <u>HVR-UC5</u> Equip. Class <u>10-Air Handlers</u>	
Equipment Description HPCS PUMP ROOM UNIT COOLER	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-067</u>	
Equipment ID No. <u>HVR-UC5</u> Equip. Class <u>10-Air Handlers</u>	
Equipment Description HPCS PUMP ROOM UNIT COOLER	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
None	
Handy .	
Evaluated by: <u>J. Halsey</u>	Date: 10/10/12
( ) . T .	
D. Bassi	10/10/12

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Status: Y N U 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:

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Status:	$Y \boxtimes$	N	U
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Seismic Walkdown Checklist (SWC) SWEL1-067

Equipment ID No. <u>HVR-UC5</u> Equip. Class <u>10-Air Handlers</u>

Equipment Description HPCS PUMP ROOM UNIT COOLER







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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:

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-068</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>In-line AOD attached to duct on both sides. Bolts visible on 3 sides</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>Minor surface oxidation on the channel. Acceptable</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Attached to duct both sides</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-068</u>	
Equipment ID No. <u>HVC-AOD12A</u> Equip. Class <u>7-Pneumatic-operate</u>	d valve
Equipment Description 1HVC*ACU2A AIR OUTLET (CD-2-89')	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
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□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-068</u>	
Equipment ID No. <u>HVC-AOD12A</u> Equip. Class <u>7-Pneumatic-operated</u>	d 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: <u>10-1-2012</u>
Evaluated by. <u>D. Dassi</u>	_ Date
All alaman	
A. S. Dalawari	10-1-2012

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Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>HVC-AOD12A</u> Equip. Class	ss_7-Pneumatic-operated valve
Equipment Description 1HVC*ACU2A AIR OUTLET (	CD-2-89')
Photographs	
BZ-RN1	
Note:	Note:

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1</u>	-068
Equipment ID No. <u>HVC-AOD12A</u> Equip. Cl	ass 7-Pneumatic-operated valve
Equipment Description 1HVC*ACU2A AIR OUTLET	(CD-2-89')
82 1 129 PM	1 D.45PM
Note:	Note:

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-069</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Anchorage was free of bent, broken, missing or loose hardware.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>Painted surfaces, no corrosion visible.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks visible.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-069</u>	
Equipment ID No. <u>HVC-AOD5B</u> Equip. Class <u>7-Pneumatic-operated</u>	d valve
Equipment Description 1HVC*FN2B AIR INLET (CA-2-80')	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-069</u>	
Equipment ID No. HVC-AOD5B Equip. Class 7-Pneumatic-operated	l valve
Equipment Description 1HVC*FN2B AIR INLET (CA-2-80')	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Ha Oug	
Evaluated by: Jason Halsey	Date: 10/8/2012
Matt Keeney	
Matt Keeney	10/8/2012

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Seismic Walkdown Checklist (SWC) <u>SWEL</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>HVC-AOD5B</u> Equip. C	Class 7-Pneumatic-operated valve
Equipment Description 1HVC*FN2B AIR INLET (CA	A-2-80')
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-069</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>HVC-AOD5B</u> Equip. Class_7	'-Pneumatic-operated valve
Equipment Description 1HVC*FN2B AIR INLET (CA-2-80'	)
Note:	lote:

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Seismic Walkdown Checklist (SWC) <u>SWEL1</u> .	Status: Y⊠ N□ U□
Equipment ID No. <u>HVC-AOD5B</u> Equip. Cla	
Equipment Description 1HVC*FN2B AIR INLET (CA-2	2-80')
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-070</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>All anchorage hardware was intact and free of bent, broken, or loose pieces.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>No corrosion was noted. Anchorage hardware was either painted of galvanized.</li> </ol>
4. Is the anchorage free of visible cracks in the concrete near the anchors?  Y□ N□ U□ N/A□ anchors?
Component is mounted in-line with the associated ducting and is not anchored to concrete.

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-070</u>	
Equipment ID No. <u>HVC-AOD6A</u> Equip. Class <u>7-Pneumatic-operated</u>	d valve
Equipment Description 1HVC*ACU1A AIR OUTLET (CD-1-130')	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-070</u>	
Equipment ID No. <u>HVC-AOD6A</u> Equip. Class <u>7-Pneumatic-operated</u>	l valve
Equipment Description 1HVC*ACU1A AIR OUTLET (CD-1-130')	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
N/A	
Evaluated by Jasen Halaay	Dete: 10.2.2012
Evaluated by: <u>Jason Halsey</u>	Date: 10-2-2012
Matt Keeney	
Matt Keeney	10-2-2012

Status: Y⊠ N□ U□
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## Seismic Walkdown Checklist (SWC) SWEL1-070

Equipment ID No. <u>HVC-AOD6A</u> 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

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Seismic Walkdown Checklist (SWC) SWEL1-	Status: Y⊠ N□ U□
Equipment ID No. <u>HVC-AOD6A</u> Equip. Cla	
Equipment Description 1HVC*ACU1A AIR OUTLET (	CD-1-130')
Note: Mechanical limit switches on side of damper	Note:

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Status: Y⊠ N⊡ U⊡		
Seismic Walkdown Checklist (SWC) <u>SWEL1-071</u>		
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		
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>		
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Clean and free of damage visible on three sides.</li> </ol>		
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A No corrosion noted.</li> </ol>		
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Not mounted to concrete.</li> </ol>		

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-071</u>	
Equipment ID No. <u>HVC-CH1A</u> Equip. Class <u>0-Other</u>	
Equipment Description CONTROL ROOM AIR HLDG UNIT HEATER CH1A	
<ol> <li>Is the anchorage configuration consistent with plant documentation?         (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)     </li> <li>See document 0216.200-113-032         Verified in accordance with above dwg     </li> </ol>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?	TENE UE
Interaction Effects	
<ol> <li>Are soft targets free from impact by nearby equipment or structures?</li> <li>No equipment nearby that is not supported.</li> </ol>	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-071	
Equipment ID No. <u>HVC-CH1A</u> Equip. Class <u>0-Other</u>	
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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10/2/2012
Ha Ong	
Jason Halsey	10/2/2012

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Seismic Walkdown Checklist (SWC) SWEL1-071	Status: Y⊠ N□ U□	
Equipment ID No. <u>HVC-CH1A</u> Equip. Class <u>0-Other</u>		
Equipment Description CONTROL ROOM AIR HLDG UNIT HEATER CH1A		
Photographs		





Note: Note:

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Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL1-071		
Equipment ID No. <u>HVC-CH1A</u> Equip. Cla	ss 0-Other	
Equipment Description CONTROL ROOM AIR HLDG UNIT HEATER CH1A		
Note:	Note:	

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Status: Y⊠ N⊡ U⊡		
Seismic Walkdown Checklist (SWC) <u>SWEL1-072</u>		
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		
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>		
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N□ U□ N/A□</li> <li>No missing, bent, broken, loose hardware.</li> </ol>		
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A NO NO</li></ol>		
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A</li></ul>		

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

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Seismic Walkdown Checklist (SWC) <u>SWEL1-072</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>HVC-CH3A</u> Equip. Class <u>0-Other</u>	
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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-072</u>	
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□
<b>Comments</b> (Additional pages may be added as necessary)	
None	
A Cay	
Evaluated by: <u>Jason Halsey</u>	Date: 10/2/2012
Matt Keeney	
Matt Keeney	10/2/2012

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Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>HVC-CH3A</u> Equip. Class	s_0-Other
Equipment Description CNTRL BLDG BATTERY ROO	M 1A COIL HTR
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-072</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>HVC-CH3A</u> Equip. Class_	0-Other
Equipment Description CNTRL BLDG BATTERY ROOM	1A COIL HTR

Note:

Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	Status: Y⊠ N□ U□	
Equipment ID No. <u>HVC-CH3A</u> Equip. Class	ss_0-Other	
Equipment Description CNTRL BLDG BATTERY ROOM 1A COIL HTR		
Note:	Note:	

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y∑ N☐ of the 50% of SWEL items requiring such verification)?</li> </ol>
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 Y N U N/A U N/A Oxidation?
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Steel support structure attached to concrete wall</li> </ul>

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

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-073</u>	
Equipment ID No. <u>HVC-FN2A</u> Equip. Class <u>9-Fans</u>	
Equipment Description STBY SWGR RETURN FAN	
<ul> <li>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>0215.350-073-001 Rev 300</li> <li>Verified in accordance with above dwg</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□ Y⊠ N□ U□
poternially deverse selectine containers.	
Interaction Effects	
<ol> <li>Are soft targets free from impact by nearby equipment or structures?</li> <li>Not a soft target</li> </ol>	Y□ N□ 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□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-073</u>	
Equipment ID No. <u>HVC-FN2A</u> Equip. Class <u>9-Fans</u>	
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	
Matt Keeney	
Evaluated by: M. Keeney	Date: 10-1-2012
1)13.	
D. Bassi	10-1-2012

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Seismic Walkdown Checklist (SWC) SWE  Equipment ID No. HVC-FN2A Equip.	
Equipment Description STBY SWGR RETURN FA	
Photographs	
1 2:05 PM	1 = Z:DBPH
Note:	Note:

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	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-</u>	<u>073                                    </u>
Equipment ID No. <u>HVC-FN2A</u> Equip. Cla	ss 9-Fans
Equipment Description STBY SWGR RETURN FAN	
2:06 PM	
Note:	Note:

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Status: Y⊠	] N U U
Seismic Walkdown Checklist (SWC) <u>SWEL1-074</u>	
Equipment ID No. HVC-FN3D Equip. Class¹_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 equipm SWEL. The space below each of the following questions may be used to record the results of judginglings. Additional space is provided at the end of this checklist for documenting other comments	gments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>	
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐</li> <li>Fan and motor are anchored to a concrete pad with six ¼" anchor bolts.</li> </ol>	N/A
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U U ∪ oxidation?</li> <li>Anchorage was painted and free of corrosion.</li> </ol>	N/A
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> </ol> 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>&</sup>lt;sup>1</sup> Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-074</u>	
Equipment ID No. <u>HVC-FN3D</u> Equip. Class <u>9-Fans</u>	
Equipment Description BATTERY ROOM 1A EXHAUST FAN	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-074</u>	
Equipment ID No. <u>HVC-FN3D</u> Equip. Class <u>9-Fans</u>	
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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10-2-2012
Jason Halsey	10-2-2012

Status:	$Y \boxtimes$	N	U
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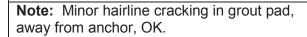
## Seismic Walkdown Checklist (SWC) SWEL1-074

Equipment ID No. <u>HVC-FN3D</u> Equip. Class <u>9-Fans</u>

Equipment Description BATTERY ROOM 1A EXHAUST FAN

## **Photographs**







**Note:** Minor hairline cracking in grout pad, away from anchor, OK.

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-075</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>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</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Mild surface oxidation is present on all 4 bolts.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracks.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-075</u>	
Equipment ID No. <u>HVK-CHL1C</u> Equip. Class <u>11 – Chillers</u>	
Equipment Description HVKC01 CONTROL BLDG CHILLED WATER COMPR	ESSOR CHL1C
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>Verified IAW drawing: 0216.210-085-003</li> </ol>	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□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-075</u>	
Equipment ID No. <u>HVK-CHL1C</u> Equip. Class <u>11 – Chillers</u>	
Equipment Description HVKC01 CONTROL BLDG CHILLED WATER COMPR	ESSOR 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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
1)13.	
Evaluated by: David Bassi	Date: 10/1/2012
and the al	
Matt Keeney	
Matt Keeney	10/1/2012

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Seismic Walkdown Checklist (SWC) - SWEL1	Status: Y⊠ N□ U□
Equipment ID No. <u>HVK-CHL1C</u> Equip. Cla	iss_11 – Chillers
Equipment Description HVKC01 CONTROL BLDG C	HILLED WATER COMPRESSOR CHL1C
Photographs	
1 3:38 РН	CATON WARM
Note:	Note:

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Seismic Walkdown Checklist (SWC)S	Status: Y⊠ N□ U□ <b>WEL1-075</b>
Equipment ID No. <u>HVK-CHL1C</u> Equip. Class	ss 11 – Chillers
Equipment Description HVKC01 CONTROL BLDG CH	HILLED WATER COMPRESSOR CHL1C
LITION 3.38 PM	CD CD CD CD CD CD CD CD CD CD
Note:	Note:

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Seismic Walkdown Checklist (SWC) _	SWEL1-075	Status: Y⊠ N□ U□
Equipment ID No. <u>HVK-CHL1C</u> E		
Equipment Description HVKC01 CONTROL		MPRESSOR CHL1C
	HVK-PNLIOC O	1 3:38 PM
Note:	Note:	

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Seismic Walkdown Checklist (SWC)	SWEL1-075	Status: Y⊠ N□ U□
Equipment ID No. <u>HVK-CHL1C</u> Equip. 0	Class 11 - Chillers	
Equipment Description HVKC01 CONTROL BLDG	CHILLED WATER COM	PRESSOR CHL1C
3:39		244 1 3:40 PM
Note:	Note:	

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Seismic Walkdown Checklist (SWC)	SWEL1-075	Status: Y⊠ N□ U□
Equipment ID No. <u>HVK-CHL1C</u> Equ		
Equipment Description HVKC01 CONTROL B	LDG CHILLED WATER COMPR	ESSOR CHL1C
840		1 3:40 рм
Note:	Note:	

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Seismic Walkdown Checklist (SWC)SV	Status: Y⊠ N□ U□
Equipment ID No. <u>HVK-CHL1C</u> Equip. Class	s 11 – Chillers
Equipment Description HVKC01 CONTROL BLDG CH	ILLED WATER COMPRESSOR CHL1C
1 4:15 PM	1 4:16 P
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-076</u>
Equipment ID No. <u>HVK-MOV20C</u> 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) <u>Jamesbury Model 815L-S9273301-22HB-SL-C / 8226-EX-C-6</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>It is an inline valve with a horizontal operator</li> </ol>
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?  Valve and operator are free of corrosion
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ □ □ N/A□</li> <li>Not attached to concrete, inline</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-076</u>	
Equipment ID No. <u>HVK-MOV20C</u> Equip. Class <u>8 – Motor-Operated a</u>	and Solenoid-Operated Valves
Equipment Description CNTRL BLDG CHILLED WTR PMP 1C DISCH MTR O	PERATED ISOL VLV
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
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□
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□

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Seismic Walkdown Checklist (SWC) <u>SWEL1-076</u>	Status: Y⊠ N□ U□
· ,	
Equipment ID No. <u>HVK-MOV20C</u> Equip. Class <u>8 – Motor-Operated a</u>	nd Solenoid-Operated Valves
Equipment Description CNTRL BLDG CHILLED WTR PMP 1C DISCH MTR O	PERATED 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	
All a Sarrau	
Evaluated by: A.S. Dalawari	Date: 10-1-2012
J-13.	
D. Bassi	10-1-2012

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Seismic Walkdown Checklist (SWC) <u>SWEL1</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>HVK-MOV20C</u> Equip. Cla	ass 8 – Motor-Operated and Solenoid-Operated Valves
Equipment Description CNTRL BLDG CHILLED WTF	R PMP 1C DISCH MTR OPERATED ISOL VLV
Photographs	
	1 3:45 рн
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-077
Equipment ID No. HVK-P1A Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Pump is secured using 4 bolts with single nuts on concrete pad</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracks</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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		Status:	$Y \boxtimes N \square U \square$
Seismic Walkdown Checklist (SWC)	SWEL1-077		
Equipment ID No. HVK-P1A Eq	uip. Class <u>5-Horizontal Pump</u>		
Equipment Description 1HVK*P1A CONTROL	BLDG CHILLED WATER PUMP		
<ol><li>Is the anchorage configuration consiste (Note: This question only applies if the i an anchorage configuration verification</li></ol>	tem is one of the 50% for which	Y	U□ N/A⊠
6. Based on the above anchorage evaluat potentially adverse seismic conditions?	ions, is the anchorage free of	Y⊠ N□	U
Interaction Effects			
<ol> <li>Are soft targets free from impact by nea One soft target no threatened</li> </ol>	rby equipment or structures?	Y⊠ N□	U N/A
Are overhead equipment, distribution sy and masonry block walls not likely to co Light fixture will not fail, bulb can dislodo equipment	llapse onto the equipment?	Y⊠ N□	U□ N/A□
Do attached lines have adequate flexibit     Flexible lines	lity to avoid damage?	Y⊠ N□	U N/A
Based on the above seismic interaction of potentially adverse seismic interactio		Y⊠ N□	U

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-077</u>	
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
Evaluated by. <u>B. Bassi</u>	_ Date
Aff a lawar	
A. Dalawari	10/1/12

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Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u>	Status: Y N U
Equipment ID No. HVK-P1A Equip. Clas	s_5-Horizontal Pump
Equipment Description 1HVK*P1A CONTROL BLDG C	CHILLED WATER PUMP
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) - SWEL1-	<u>077                                   </u>	Status:	Y⊠ N□ U□
Equipment ID No. <u>HVK-P1A</u> Equip. Cla	ss_ 5-Horizontal Pump		
Equipment Description 1HVK*P1A CONTROL BLDG	CHILLED WATER PUMP		
Note:	Note:		

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) - SWEL1-078
Equipment ID No. HVK-TK1A Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
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  Y⊠ N□ U□ N/A□ oxidation?  Anchors are painted. No corrosion.
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A</li></ul>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>- SWEL1-078</u>	
Equipment ID No. <u>HVK-TK1A</u> Equip. Class <u>21 – Tanks and Heat</u>	Exchangers
Equipment Description CNTRL BLDG CHILLED WTR SURGE TK 1A	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
<ol> <li>Do attached lines have adequate flexibility to avoid damage?</li> <li>Yes, tubes attached on one side and pipes on the other 2 sides are flexible.</li> </ol>	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Ref. CR-RBS-2012-6242; LB-01	
Evaluated by: A. S. Dalawari	Date: 10/1/2012
1) 13.	
David Bassi	10/1/2012

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Seismic Walkdown Checklist (SWC)S	Status: Y⊠ N□ U□
Equipment ID No. <u>HVK-TK1A</u> Equip. Cla	ss 21 – Tanks and Heat Exchangers
Equipment Description CNTRL BLDG CHILLED WTR	SURGE TK 1A
Photographs	
HICCTIC IA  POWER WITH  POWER	1 3:42 РМ
Note:	Note:

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No. HVK-TK1A Equip. Cla	
Equipment Description CNTRL BLDG CHILLED WTI	R SURGE TK 1A
	1 3:42 РН
Note:	Note:

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Seismic Walkdown Checklist (SWC)		Status: Y⊠ N□ U□
Equipment ID No. HVK-TK1A E		angers
Equipment Description CNTRL BLDG CHILL	ED WTR SURGE TK 1A	
1 3:4:	ЗРМ	
Note:	Note:	

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL1-079</u>
Equipment ID No. <u>HVP-AOD11A</u> Equip. Class <sup>1</sup> 7 – <u>Pneumatic-Operated Valves</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐ Missing the top left bolt, not judged to be seismic issue (21 of 22 bolts present).</li> <li>Need a CR for missing bolt.</li> <li>Ref.CR-RBS-2012-6236</li> </ol>
3. Is the anchorage free of corrosion that is more than mild surface Y N U N/A ∪ oxidation?  No major corrosion evident
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Attached to equipment</li> </ul>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-079</u>	
Equipment ID No. <u>HVP-AOD11A</u> Equip. Class 7 – <u>Pneumatic-Opera</u>	ted Valves
Equipment Description DSL GEN CONT RM A AIR SPLY (DC-3-131')	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Y□ N□ U□ N/A⊠
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Bolt missing but adequate number remaining	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⊠
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Equipment not in danger of overhead equipment falling	Y⊠ N□ U□ N/A□
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□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-079	
Equipment ID No. <u>HVP-AOD11A</u> Equip. Class <u>7 – Pneumatic-Opera</u>	ted 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. P. Klunhlaug	
J. Dunkelberg	10-2-12

Seismic Walkdown Checklist (SWC)		Y⊠ N□ U□
Equipment ID No. HVP-AOD11A	Equip. Class 7 – Pneumatic-Operated Valves	
Equipment Description DSL GEN CONT F	RM A AIR SPLY (DC-3-131')	

## **Photographs**



**Note:** AOD anchorage (with missing bolt shown in top left corner)



Note: Other side of AOD

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		Status: Y⊠ N□ U□
Seism	ic Walkdown Checklist (SWC)SWEL1-081	
Equipn	nent ID No. <u>HVP-FN2A</u> Equip. Class <u></u> 9 - Fans	
Equipn	nent Description DIESEL ROOM A EMER VENTILATING EXHAUST FAI	N
Locatio	on: Bldg. <u>DG</u> Floor El. <u>098</u> Room, Area <u>1100</u>	
Manufa	acturer, Model, Etc. (optional but recommended) N/A	
Instruc	ctions for Completing Checklist	
SWEL.	necklist may be used to document the results of the Seismic Walkdown of The space below each of the following questions may be used to record s. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Ancho	rage	
1.	Is the anchorage configuration verification required (i.e., is the item 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 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.	Y⊠ N□ U□ N/A□
3.	Is the anchorage free of corrosion that is more than mild surface oxidation?  Bolts are painted. Could not see 2 of 5 attachment bolts on south side. North side 5 bolts are good.	Y⊠ N□ U□ N/A□
4.	Is the anchorage free of visible cracks in the concrete near the anchors?	Y□ N□ U□ N/A⊠
4.	North side 5 bolts are good.  Is the anchorage free of visible cracks in the concrete near the	Y□ N□ U□ N/A⊠

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-081	
Equipment ID No. <u>HVP-FN2A</u> Equip. Class <u>9 - Fans</u>	
Equipment Description DIESEL ROOM A EMER VENTILATING EXHAUST FA	AN
5. Is the anchorage configuration consistent 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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free     of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) - SWEL1-081	
Equipment ID No. <u>HVP-FN2A</u> Equip. Class <u>9 - Fans</u>	
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□
<u>Comments</u> (Additional pages may be added as necessary)	
Fan is high in the overhead, all observations were from the floor, could not Could not see 2 of 5 attachment bolts on south side. North side 5 bolts are basis to conclude that the 2 bolts that could not be observed are not in plac with EOI (J Drake), it was determined that this is an acceptable inspection.	good. No evidence or ce. Based on discussion
Evaluated by: J. Dunkelberg	Date: <u>10-2-12</u>
D. Bassi	10-2-12

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Seismic Walkdown Checklist (SWC)	SWEL1-081	Status:	Y⊠ N□ U□
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.

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No. <u>HVP-FN2A</u> Equip. Cla	ass 9 - Fans
Equipment Description DIESEL ROOM A EMER VEI	NTILATING EXHAUST FAN
2 10.42 AH	
Note: Visible bolts on the south side of the fan.	Note:

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Status: Y⊠ N⊡ U⊡		
Seismic Walkdown Checklist (SWC)SWEL1-082		
Equipment ID No. <u>HVP-FN6A</u> 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		
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>		
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>All bolts were present and no problems</li> </ol>		
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y∑ N☐ U☐ N/A☐ oxidation?</li> <li>No corrosion observed</li> </ol>		
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracking was observed near the anchors.</li> </ul>		

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-082	
Equipment ID No. <u>HVP-FN6A</u> Equip. Class <u>9 - Fans</u>	
Equipment Description DSL GEN CONT RM A VENT SUPPLY FAN	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>EC-029G</li> <li>Verified in accordance with above dwg</li> </ol>	Y⊠ N□ U□ N/A□
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□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-082	
Equipment ID No. <u>HVP-FN6A</u> Equip. Class <u>9 - Fans</u>	
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	
N D ( / ///	
Evaluated by: J. Dunkelberg	Date: <u>10-2-12</u>
1) 13.	
D. Bassi	10-2-12

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Seismic Walkdown Checklist (SWC)SWEI	Status: Y⊠ N□ U□
Equipment ID No. <u>HVP-FN6A</u> Equip. Class <u>9</u>	- Fans
Equipment Description DSL GEN CONT RM A VENT SUP	PLY FAN
Photographs	

2 9:30 AM

Note:

Note:

Status: Y N U U
Seismic Walkdown Checklist (SWC) SWEL1-082

Ocidino trancovii oncomot (Otto)

Equipment Description DSL GEN CONT RM A VENT SUPPLY FAN

Equipment ID No. <u>HVP-FN6A</u> Equip. Class <u>9 - Fans</u>







Note: Non-standard attachment

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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		
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>		
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Panel is anchored to the wall by four bolts to embedded unistrut channel.</li> </ol>		
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A NO VISIBLE CORROSION.</li> </ol>		
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracks in the concrete near embedment.</li> </ul>		

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-083	
Equipment ID No. <u>HVP-PNL12A</u> Equip. Class <u>3 – Medium Voltage</u> ,	Metal-Clad Switchgear
Equipment Description DIESEL GENERATOR VENTILATION PNL 12A	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-083</u>	
Equipment ID No. <u>HVP-PNL12A</u> Equip. Class <u>3 – Medium Voltage, I</u>	Metal-Clad Switchgear
Equipment Description DIESEL GENERATOR VENTILATION PNL 12A	
Other Adverse Conditions	
11. Have you looked for and found no 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	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10-4-2012
J. P. Munhloug	40.4.0040
John Dunkelberg	10-4-2012

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	WEL 4 000	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	WEL1-083	
Equipment ID No. <u>HVP-PNL12A</u> Equip. Cla	ss <u>3 – Medium Voltage, Met</u>	al-Clad Switchgear
Equipment Description DIESEL GENERATOR VENT	ILATION PNL 12A	
Photographs		
Note:	Note:	

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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) <u>Buffalo Forge Model 390 PC/48D9-1750-22</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y⊠ N□ U□ N/A□</li> <li>No damage noticed on anchorage.</li> </ol>
3. Is the anchorage free of corrosion that is more than mild surface Y∑ N☐ U☐ N/A☐ oxidation?  Light rusting noted on anchorage bolts.
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Component is mounted on steel.</li> </ul>

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

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC)SWEL1-084	
Equipment ID No. <u>HVR-UC1A</u> Equip. Class 10 – Air Handlers	
Equipment Description CONTMT UNIT COOLER	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>Verified IAW drawings: 0215.252-057-010, 0215.252-057-009, ES-053P</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10-3-2012
John Dunkelberg	10-3-2012

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Seismic Walkdown Checklist (SWC)		Status: Y⊠ N□ U□
Equipment ID No. HVR-UC1A	Equip. Class 10 – Air Handlers	
Equipment Description CONTMT UNIT CO	OOLER	

## Photographs







Note:

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		Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC)	SWEL1-084	
Equipment ID No. <u>HVR-UC1A</u> Equip. C	Class 10 – Air Handlers	
Equipment Description CONTMT UNIT COOLER		_
Note:	Note:	

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) - SWEL1-085
Equipment ID No. HVR-UC6 Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>All hardware good condition, all in place</li> </ol>
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?  Painted
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracks</li> </ul>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-085	
Equipment ID No. <u>HVR-UC6</u> Equip. Class 10 – Air Handlers	
Equipment Description AUX BLDG UNIT COOLER	
<ul> <li>5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>Verified IAW the following Drawings:</li> <li>EC-066G, EC-067C, 0215.252-057-038</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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		Status: Y⊠ N□	$U \square$
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			
Have you looked for and found no calculate adversely affect the safety functions		Y⊠ N□ U□	
Comments (Additional pages may be adde	ed as necessary)		
None			
) RN	Luchleng		
Evaluated by: <u>J. Dunkelberg</u>	U	_ Date: 10/8/12	
D Bassi	3.	10/8/12	
Evaluated by: <u>J. Dunkelberg</u> D. Bassi	Inhlorg Bi	Date: 10/8/12	

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Seismic Walkdown Checklist (SWC)S\	Status: Y⊠ N□ U□
Equipment ID No. <u>HVR-UC6</u> Equip. Class	ss_10 – Air Handlers
Equipment Description AUX BLDG UNIT COOLER	
Photographs	
EXECUTION INTO THE PROPERTY OF	
Note:	Note:

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
Is the anchorage free of bent, broken, missing or loose hardware?  Y⊠ N□ U□ N/A□  All anchors are present and in good condition
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Anchors are clean steel or painted</li> </ol> Y∑ N☐ U☐ N/A☐
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>The grout bed is cracked on one anchor.</li> </ul>

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

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	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	R
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>EC-066G</li> </ol>	Y⊠ N□ U□ N/A□
<ul><li>Verified in accordance with above dwg</li><li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li></ul>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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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	
<ul><li>11. Have you looked for and found no other seismic conditions that could Y N U U adversely affect the safety functions of the equipment?</li><li>See comments</li></ul>	
<u>Comments</u> (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.	
Matt Keeney	
Evaluated by: M. Keeney Date: 10/8/12	
La Cay	
J. Halsey (10/8/12	

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Seismic Walkdown Checklist (SWC)S	
Equipment ID No. <u>LSV-C3A</u> Equip. Class	ss 12 – Air Compressors
Equipment Description PENETRATION VALVE LEAK	AGE CONT SYSTEM AIR
Photographs	
PERETRATION VALUE LEARAGE CONTRACT	
Note:	Note:

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Seismic Walkdown Checklist (SWC)SW	Status: Y⊠ N U U U
Equipment ID No. <u>LSV-C3A</u> Equip. Class	12 – Air Compressors
Equipment Description PENETRATION VALVE LEAKAGE	GE CONT SYSTEM AIR
Note:	Note:

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			Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SW	EL1-086	
Equipment ID No. LSV-C3A	Equip. Class	12 – Air Compressors	
Equipment Description PENETRATION V	ALVE LEAKAC	GE CONT SYSTEM AIR	
Note:		Note:	

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N⊠ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>All visible bolt holes filled.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Clean steel or painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Mounted to steel</li> </ul>

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

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Sajamia Walkdown Chacklist (SWC) SWEL 1 097	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-087	
Equipment ID No. <u>LSV-C3B</u> Equip. Class <u>12 – Air Compressors</u>	
Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR	R COMPRESSOR
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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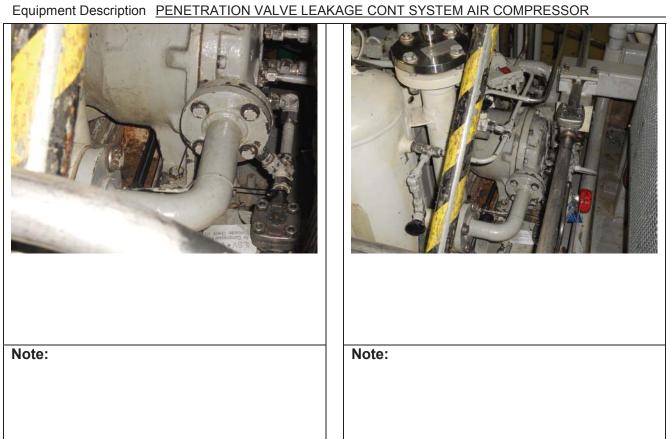
Seismic Walkdown Checklist (SWC)SWEL1-087	Status: Y⊠ N□ U□
Equipment ID No. LSV-C3B Equip. Class 12 – Air Compressor	
Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM A	IR COMPRESSOR
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
None	
Matt Keeney	-
Evaluated by: Matt Keeney	Date: 10/8/2012
Brandon Nissing	10/8/2012

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Seismic Walkdown Checklist (SWC)	
Equipment ID No. LSV-C3B Equip. Cl	
Equipment Description PENETRATION VALVE LEA	KAGE CONT SYSTEM AIR COMPRESSOR
Photographs	
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Note:	Note:

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Seismic Walkdown Checklist (SWC) - SWEL1-087	Status: Y⊠ N	I□ U□
Equipment ID No. <u>LSV-C3B</u> Equip. Class <u>12 – Air Compressors</u>		
Equipment Description PENETRATION VALVE LEAKAGE CONT SYSTEM AIR	COMPRESSOR	
	AUPSI	



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Status: Y N U U Seismic Walkdown Checklist (SWC) - SWEL1-087	
Equipment ID No. LSV-C3B Equip. Cla	ss_12 – Air Compressors
Equipment Description PENETRATION VALVE LEAK	AGE CONT SYSTEM AIR COMPRESSOR
Note:	Note:

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-088	
Equipment ID No. RCP-TCA03 Equip. Class <sup>1</sup> 14 – Distribution Pan	els
Equipment Description RX CNTMNT ELECT OUTBRD PENTR NMS13 & LVI1	3A TERMINATION CABINET
Location: Bldg. AB Floor El. 114 Room, Area 6207	
Manufacturer, Model, Etc. (optional but recommended)  General Electric Model	el EB-25
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documentin	the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware?  Welded connection to sills on two sides	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?  Painted	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?  No cracks visible in concrete	Y⊠ N□ U□ N/A□

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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		$Y \boxtimes N \square U \square$
Seismic Walkdown Checklist (SWC) SWE	<u>:L1-088</u>	
Equipment ID No. RCP-TCA03 Equip. Class	14 – Distribution Panels	
Equipment Description RX CNTMNT ELECT OUTBRD P	ENTR NMS13 & LVI13A TERMINA	ATION CABINET
<ol> <li>Is the anchorage configuration consistent with plan (Note: This question only applies if the item is one of an anchorage configuration verification is required.)</li> </ol>	of the 50% for which	U□ N/A⊠
6. Based on the above anchorage evaluations, is the potentially adverse seismic conditions?	anchorage free of Y⊠ N□	∪□
Interaction Effects		
7. Are soft targets free from impact by nearby equipm	ent or structures? Y⊠ N□	U□ N/A□
Are overhead equipment, distribution systems, ceili and masonry block walls not likely to collapse onto		U N/A
9. Do attached lines have adequate flexibility to avoid	damage? Y⊠ N□	U N/A
Based on the above seismic interaction evaluations of potentially adverse seismic interaction effects?	s, is equipment free Y⊠ N□	U

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) - SWEL1-088	
Equipment ID No. RCP-TCA03 Equip. Class 14 – Distribution Panel	<u>s</u>
Equipment Description RX CNTMNT ELECT OUTBRD PENTR NMS13 & LVI13	A 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□
Comments (Additional pages may be added as necessary)	
None	
J-13-	
Evaluated by: D. Bassi	Date: 10/9/12
J. P. Munholog	
J. Dunkelberg	10/9/12

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Seismic Walkdown Checklist (SWC)	SWEL1-088	Status: Y⊠ N□ U□
Equipment ID No. RCP-TCA03	Equip. Class 14 – Distribution Panels	
Equipment Description RX CNTMNT FLE	CT OUTBRD PENTR NMS13 & LVI13A	TERMINATION CARINET

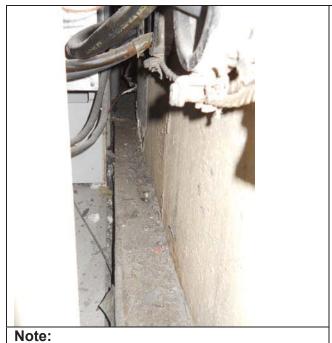
## **Photographs**





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Seismic Walkdown Checklist (SWC)	SWEL1-088	Status: Y⊠ N□ U□
Equipment ID No. RCP-TCA03	Equip. Class 14 – Distribution Panels	
Equipment Description RX CNTMNT ELEC	CT OUTBRD PENTR NMS13 & LVI13A	TERMINATION CABINET







Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC)SWEL1-089
Equipment ID No. RCP-TCF04 Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N□ U□ N/A□</li> <li>Welded to floor sills, 2 sides, continuous weldment.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks observed</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-089	
Equipment ID No. RCP-TCF04 Equip. Class 14 – Distribution Pane	ls
Equipment Description RX CNTMNT ELECT OUTBRD PENTR LVC21 & LVI20	A TERMINATION CABINET
<ul> <li>5. Is the anchorage configuration consistent 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</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□  Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

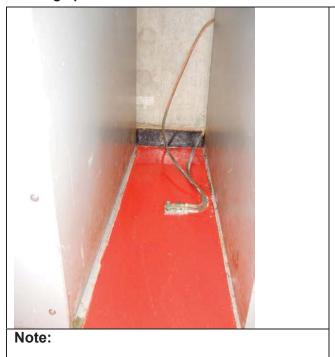
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Seismic Walkdown Checklist (SWC)	SWEL1 090	Status: Y⊠ N□ U□
· /—	<u> </u>	
Equipment ID No. RCP-TCF04 E	quip. Class <u>14 – Distribution Pane</u>	els
Equipment Description RX CNTMNT ELECT	OUTBRD PENTR LVC21 & LVI2	DA TERMINATION CABINET
Other Adverse Conditions		
<ol> <li>Have you looked for and found no othe adversely affect the safety functions of</li> </ol>		Y⊠ N□ U□
See comments		
Comments (Additional pages may be added a	as necessary)	
Rag observed at back right side of cab Recommend removal, housekeeping it		
CR-RBS-2012-6693 initiated.		
	/	
Evaluated by: John Dunkelberg	Glundberg	_ Date: 10/9/2012
	273.	
David Bassi		10/9/2012

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Seismic Walkdown Checklist (SWC)	SWEL1-089	Status: Y⊠ N□ U□
Equipment ID No. RCP-TCF04	Equip. Class 14 – Distribution Panels	
Equipment Description RX CNTMNT FLE	CT OUTBRD PENTR LVC21 & LVI20A	TERMINATION CARINET

## **Photographs**





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	Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC)	SWEL1-089	
Equipment ID No. RCP-TCF04	Equip. Class 14 – Distribution Panels	
Equipment Description RX CNTMNT ELE	CT OUTBRD PENTR LVC21 & LVI20A TERMINATION CABINET	<u>-</u>
Note:	Note:	

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-090
Equipment ID No. RCP-TCR01F Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Bolted steel cabinet welded to steel plate at base to floor.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A</li></ol>
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Mounted to steel floor plate.</li> </ol>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-090	
Equipment ID No. RCP-TCR01F Equip. Class 14 – Distribution Pane	els
Equipment Description RX CNTMNT ELECT INBRD PENTR NMS19 & LVI19A	TERMINATION CABINET
<ul> <li>5. Is the anchorage configuration consistent 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-035A Verified in accordance with above dwg</li> <li>6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> </ul>	Y⊠ N□ U□ N/A□ Y⊠ N□ U□
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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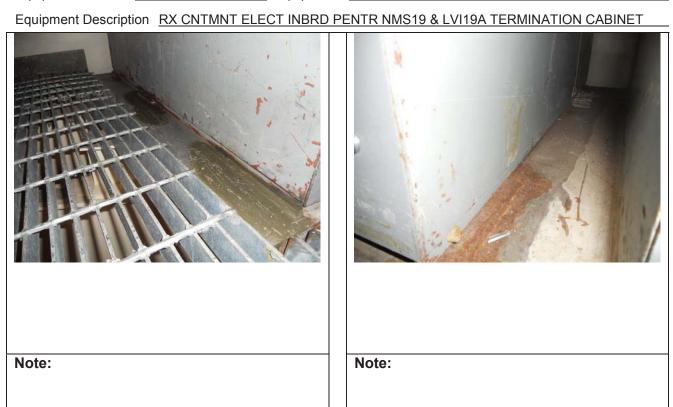
	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1-090	
Equipment ID No. RCP-TCR01F Equip. Class 14	
Equipment Description RX CNTMNT ELECT INBRD PENTR NMS19 & LVI19A	TERMINATION CABINET
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	$Y \boxtimes N \square U \square$
Comments (Additional pages may be added as necessary)	
None	
Mat Leoney	
Evaluated by: Matt Keeney	Date: 10-9-2012
Jason Halsey	10-9-2012

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		Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SWEL1-090	
Equipment ID No. RCP-TCR01F Equip. C	Class 14 – Distribution Panels	i .
Equipment Description RX CNTMNT ELECT INBRI	D PENTR NMS19 & LVI19A T	ERMINATION CABINET
Photographs		
Note:	Note:	

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Seismic Walkdown Checklist (SWC)	SWEL1-090	Status: Y⊠ N□ U□
Equipment ID No. RCP-TCR01F	Equip. Class 14 – Distribution Panels	
Equipment Description RX CNTMNT ELEC	CT INBRD PENTR NMS19 & LVI19A TE	RMINATION CABINET



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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Rack mounted in-line valve.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A D N/A</li> <li>painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Mounted on steel</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-091	
Equipment ID No. C11-AOV126 Equip. Class 7 – Pneumatic-Opera	ted Valves
Equipment Description SCRAM INLET VALVE	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-091	
Equipment ID No. C11-AOV126 Equip. Class 7 – Pneumatic-Opera	ted 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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10/9/2012
Many	
Jason Halsey `	10/9/2012

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Seismic Walkdown Checklist (SWC)S	Status: Y⊠ N□ U□
Equipment ID No. C11-AOV126 Equip. Class	ss_7 – Pneumatic-Operated Valves
Equipment Description SCRAM INLET VALVE	
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC)S	Status: Y⊠ N∐ U∐ <b>WEL1-091</b>
Equipment ID No. C11-AOV126 Equip. Class	
Equipment Description SCRAM INLET VALVE	
Note:	Note:

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Rack mounted in-line valve</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Mounted on steel</li> </ul>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-092	
Equipment ID No. C11-AOV126 Equip. Class 7 – Pneumatic-Opera	ted Valves
Equipment Description SCRAM INLET VALVE	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-092	
Equipment ID No. C11-AOV126 Equip. Class 7 – Pneumatic-Operat	ed 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□
Comments (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10/9/2012
Haling	
Jason Halsey	10/9/2012

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Seismic Walkdown Checklist (SWC) SWEL1  Equipment ID No. C11-AOV126 Equip. Class 7 -	
Equipment Description SCRAM INLET VALVE	
Photographs	_
Note:	te:

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Sciemic Walkdown Charklist (SWC)	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SV	VEL1-092
Equipment ID No. <u>C11-AOV126</u> Equip. Clas	s_7 – Pneumatic-Operated Valves
Equipment Description SCRAM INLET VALVE	
Note:	Note:

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Rack mounted in-line valve.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Mounted on steel</li> </ul>

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

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Colombia Walledown Chapleliat (CWC) CWEL 4 002	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-093	
Equipment ID No. <u>C11-AOV127</u> Equip. Class <u>7 – Pneumatic-Opera</u>	ted Valves
Equipment Description SCRAM DISCHARGE VALVE	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-093	
Equipment ID No. C11-AOV127 Equip. Class 7 – Pneumatic-Opera	ted 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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10/9/2012
Hall of	
Jason Halsey	10/9/2012

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Seismic Walkdown Checklist (SWC)S	Status: Y⊠ N□ U□
Equipment ID No. <u>C11-AOV127</u> Equip. Class	ss_7 – Pneumatic-Operated Valves
Equipment Description SCRAM DISCHARGE VALVE	
Photographs	
No. 4 a s	SWEL1-091 C11-ACV12G SWEL1-0913 C11-ACV127
Note:	Note:

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
Is the anchorage free of bent, broken, missing or loose hardware?  Y⊠ N□ U□ N/A□  Rack mounted in-line valve
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Mounted on steel</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-094</u>	
Equipment ID No. C11-AOV127 Equip. Class 7 – Pneumatic-Opera	ted Valves
Equipment Description SCRAM DISCHARGE VALVE	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	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	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that co adversely affect the safety functions of the equipment?	uld Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10/9/2012
Land	
lason Halsey	10/9/2012

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Seismic Walkdown Checklist (SWC)	SWEL1-094	Status: Y⊠ N□ U□
Equipment ID No. C11-AOV127 Equip. C	Class 7 - Pneumatic-Operated	Valves
Equipment Description SCRAM DISCHARGE VALV	VE	
Photographs		
Note:	Note:	

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>In-line valve.</li> </ol>
<ul> <li>3. Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>The body of the valve is brass</li> </ul>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Mounted on steel</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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Seismic Walkdown Checklist (SWC)SWEL1-095	Status: Y⊠ N□ U□
Equipment ID No. C11-AOV139 Equip. Class 7 – Pneumatic-Oper	rated Valves
Equipment Description SCRAM PILOT VALVES	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	, Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-095	
Equipment ID No. C11-AOV139 Equip. Class 7 – Pneumatic-Operate	ed Valves
Equipment Description SCRAM PILOT VALVES	
Other Adverse Conditions	
11. Have you looked for and found no 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	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10/9/2012
Harry	
Jason Halsey	10/9/2012

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Seismic Walkdown Checklist (SWC)S	Status: Y⊠ N□ U□
Equipment ID No. C11-AOV139 Equip. Class	ss_7 – Pneumatic-Operated Valves
Equipment Description SCRAM PILOT VALVES	
Photographs	
Note:	Note:

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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		
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>		
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>In-line valve</li> </ol>		
Is the anchorage free of corrosion that is more than mild surface Y N U N/A ∪ oxidation?  The valve body is brass		
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Mounted on steel</li> </ul>		

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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Sciencia Walkdown Charletict (SWC) SWEL4 000	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC)SWEL1-096	
Equipment ID No. C11-AOV139 Equip. Class 7 – Pneumatic-Opera	ted Valves
Equipment Description SCRAM PILOT VALVES	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC)SWEL1-096	
Equipment ID No. C11-AOV139 Equip. Class 7 – Pneumatic-Opera	ated Valves
Equipment Description SCRAM PILOT VALVES	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10/9/2012
Land	
Jason Halsey	10/9/2012

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Seismic Walkdown Checklist (SWC) SV  Equipment ID No. C11-AOV139 Equip. Class	
Equipment Description SCRAM PILOT VALVES	
Photographs	
Note:	Note:

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	Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC) SWEL1-099		
Equipment ID No. SWP-AOV599 Equip. Class <sup>1</sup> 7 – Pneumatic-Opera	ited Valves	
Equipment Description STANDBY CLG TOWR 1 STAT BLACKOUT DIV 1 STN VL	IDBY SRVCE WTR RETURN	
Location: Bldg. GT Floor El. 067 Room, Area 20G1		
Manufacturer, Model, Etc. (optional but recommended) Jamesbury Model 822	26-18-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⊠	
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>In-line mounted valve, no bolts missing, bent or loose.</li> </ol>	Y⊠ N□ U□ N/A□	
Is the anchorage free of corrosion that is more than mild surface oxidation?  Painted, some light rust.	Y⊠ N□ U□ N/A□	
Is the anchorage free of visible cracks in the concrete near the anchors?  In-line mounted valve.	Y□ N□ U□ N/A⊠	

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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Seismic Walkdown Checklist (SWC)SWEL1-099	Status: Y⊠ N□ U□
Equipment ID No. <u>SWP-AOV599</u> Equip. Class 7 – <u>Pneumatic-Opera</u>	ted Valves
Equipment Description STANDBY CLG TOWR 1 STAT BLACKOUT DIV 1 STN VL	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-099	
Equipment ID No. SWP-AOV599 Equip. Class 7 – Pneumatic-Opera	ted Valves
Equipment Description STANDBY CLG TOWR 1 STAT BLACKOUT DIV 1 STI	NDBY SRVCE WTR 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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
J. P. Munholog	
Evaluated by: John Dunkelberg	_ Date: 10-5-2012
And Carlose	
Jose Cardona	10-5-2012

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Seismic Walkdown Checklist (SWC)S	WFI 1-099	Status: Y⊠ N□ U□
Equipment ID No. <u>SWP-AOV599</u> Equip. Cla	ss 7 – Pneumatic-Operated	Valves
Equipment Description STANDBY CLG TOWR 1 STA	T BLACKOUT DIV 1 STNDE	BY SRVCE WTR RETURN
Photographs		
Note:	Note:	

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Calamia Walledown Charlette (CWC)	Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC) S	WEL1-099	
Equipment ID No. SWP-AOV599 Equip. Class	ss 7 – Pneumatic-Operated Valves	
Equipment Description STANDBY CLG TOWR 1 STAT BLACKOUT DIV 1 STNDBY SRVCE WTR RETURN VL		
Note:	Note:	

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	Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC) SWEL1-104		
Equipment ID No. SWP-MOV27C Equip. Class 1 8 – Motor-Operated a	and Solenoid-Operated Valves	
Equipment Description CNTRL BLDG CHILLD WTR CHILLR CONDENSR C S	VCE WTR SPLY LNE ISOL VL	
Location: Bldg. CB Floor El. 098 Room, Area 1110		
Manufacturer, Model, Etc. (optional but recommended)  Jamesbury Model 815	L-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		
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Y□ N⊠	
Is the anchorage free of bent, broken, missing or loose hardware?  In-line vertical valve.	Y⊠ N□ U□ N/A□	
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>All fittings were painted.</li> </ol>	Y⊠ N□ U□ N/A□	
Is the anchorage free of visible cracks in the concrete near the anchors?  In-line of pipe.	Y□ N□ U□ N/A⊠	

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

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1-104	
Equipment ID No. <u>SWP-MOV27C</u> Equip. Class <u>8 – Motor-</u>	Operated and Solenoid-Operated Valves
Equipment Description CNTRL BLDG CHILLD WTR CHILLR CONE	DENSR C SVCE WTR SPLY LNE ISOL VL
<ol> <li>Is the anchorage configuration consistent with plant documer (Note: This question only applies if the item is one of the 50% an anchorage configuration verification is required.)</li> </ol>	
Based on the above anchorage evaluations, is the anchorage potentially adverse seismic conditions?	e free of Y⊠ N□ U□
Interaction Effects	
<ol><li>Are soft targets free from impact by nearby equipment or stru Not a soft target.</li></ol>	ctures? Y N U N/A
<ol> <li>Are overhead equipment, distribution systems, ceiling tiles ar and masonry block walls not likely to collapse onto the equipment.</li> <li>No lights or masonry block walls nearby.</li> </ol>	
<ol> <li>Do attached lines have adequate flexibility to avoid damage?</li> <li>Yes, electrical connections are flexible.</li> </ol>	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipred of potentially adverse seismic interaction effects?	ment free Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-104	
Equipment ID No. <u>SWP-MOV27C</u> Equip. Class <u>8 – Motor-Operated at </u>	nd Solenoid-Operated Valves
Equipment Description CNTRL BLDG CHILLD WTR CHILLR CONDENSR C S	VCE 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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
7),77.	
Evaluated by: David Bassi	Date: 10/1/2012
Matt Keeney	
Matt Keeney	10/1/2012

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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
Photographs
t:07 PM
Note: Note:

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SWEL1-104
Equipment ID No. <u>SWP-MOV27C</u>	Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves
Equipment Description CNTRL BLDG CHI	HILLD WTR CHILLR CONDENSR C SVCE WTR SPLY LNE ISOL VL
	1 4:09 PM
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-105
Equipment ID No. <u>SWP-MOV502A</u> 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) <u>Velan Valve Model B14-0054B-02TS</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Component is an in-line mounted valve. Valve body to bonnet fasteners were covered by insulation.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A</li></ol>
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve not mounted to concrete.</li> </ol> Y□ N□ U□ N/A□

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-105	
Equipment ID No. <u>SWP-MOV502A</u> Equip. Class <u>8 – Motor-Operated</u>	and Solenoid-Operated Valves
Equipment Description CNTNMNT UNIT CLR A SPLY HEADER INBRD CNT	NMNT ISOL VLV
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Y□ N□ U□ N/A⊠ 1
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□
Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	, Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-105	
Equipment ID No. <u>SWP-MOV502A</u> Equip. Class <u>8 – Motor-Operated ar</u>	nd Solenoid-Operated Valves
Equipment Description CNTNMNT UNIT CLR A SPLY HEADER INBRD CNTNI	MNT 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□
<u>Comments</u> (Additional pages may be added as necessary)	
Valve body was covered with insulation.	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10-3-2012
John Dunkelberg	10-3-2012
JUIII DUINCIDEIG	10-2-2012

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Seismic Walkdown Checklist (SWC)S	Status: Y⊠ N□ U□
Equipment ID No. <u>SWP-MOV502A</u> Equip. Class	ss 8 – Motor-Operated and Solenoid-Operated Valves
Equipment Description CNTNMNT UNIT CLR A SPLY	HEADER INBRD CNTNMNT ISOL VLV
Photographs	
1 SULIP * POLIFICA PA	N. A.
Note: Valve body covered by insulation	Note:

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Seismic Walkdo	wn Checklist (SWC)	SWEL1-105	Status: Y⊠ N□ U□
Equipment ID No.	SWP-MOV502A	Equip. Class 8 – Motor-Oper	ated and Solenoid-Operated Valves
Farriament Deceries	tion CNITNIMANT LINET		CNITNIMALT ICOL VIV







Note: Structural steel support

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-106</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Component is an in-line valve with bolted flanges attaching it to the piping.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Bolting was painted with mild surface corrosion noted.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Valve is mounted in-line with the piping system.</li> </ul>

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-106	
Equipment ID No. <u>SWP-MOV40A</u> Equip. Class <u>8 – Motor-Operated a</u>	nd Solenoid-Operated Valves
Equipment Description STANDBY SVCE WTR PMP A DISCH ISOL VLV	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-106	
Equipment ID No. <u>SWP-MOV40A</u> Equip. Class_8 – <u>Motor-Operated a</u>	nd 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: <u>10-2-2012</u>
<b>~</b>	
A Car	
Jason Halsey	10-2-2012

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Status: Y N U 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:

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	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 PI	MP A DISCH ISOL VLV
Note:	Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC)SWEL1-107
Equipment ID No. <u>SWP-MOV55A</u> Equip. Class <sup>1</sup> 8 – <u>Motor-Operated and Solenoid-Operated Valves</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>In-line mounted butterfly valve, no missing or damaged hardware.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A Description?</li> <li>Painted surfaces.</li> </ol>
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line mounted valve.</li> </ol>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-107	
Equipment ID No. <u>SWP-MOV55A</u> Equip. Class <u>8 – Motor-Operated a</u>	nd Solenoid-Operated Valves
Equipment Description STBY CLG TOWER 1 INLET	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Y□ N□ U□ N/A⊠
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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-107	
Equipment ID No. SWP-MOV55A Equip. Class 8 – Motor-Operated at	nd Solenoid-Operated Valves
Equipment Description STBY CLG TOWER 1 INLET	
Other Adverse Conditions	
11. Have you looked for and found no 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	
101/	
Evaluated by: John Dunkelberg	Date: 10-5-2012
1 1 1	
- Laudoro	
Jose Cardona	10-5-2012

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Seismic Walkdown Checklist (SWC)	SWEL1-107	Status: Y⊠ N□ U□
Equipment ID No. SWP-MOV55A	Equip. Class 8 – Motor-Ope	erated and Solenoid-Operated Valves
Equipment Description STBY CLG TOWER	R 1 INLET	
Photographs		
Note:	Note:	

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC)SWEL1-108
Equipment ID No. SWP-P2A Equip. Class 1 6 – Vertical Pumps
Equipment Description STBY SVC WP
Location: Bldg. SCT Floor El. 118 Room, Area 0100
Manufacturer, Model, Etc. (optional but recommended) <u>Hayward-Tyler Pump Model 18X23VSN</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y∑ N☐ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Four cast in-place anchor bolts are free of bent, broken, missing or loose hardware.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Anchors are painted with only mild surface oxidation noted.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No visible cracks in grout pad near anchor bolts.</li> </ul>

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

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	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	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>Four anchor bolts verified IAW Dwg. 0232-920-257-013H</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Seismic Walkdown Checklist (SWC)	SWEI 1-108	Status: Y⊠ N□ U□
Equipment ID No. SWP-P2A		
Equipment Description STBY SVC WP	Equip. Oldoo o voltiour ampo	
Other Adverse Conditions		
Have you looked for and found no o adversely affect the safety functions		Y⊠ N□ U□
Comments (Additional pages may be adde	ed as necessary)	
None		
Evaluated by: John Dunkelberg	Muhlang	Date: <u>10-2-2012</u>
	La Car	
Jason Halsey	`	10-2-2012

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Seismic Walkdown Checklist (SWC) Equipment ID No. SWP-P2A		Status: Y⊠ N□ U□
Equipment Description STBY SVC WP	Equip. Glass 0 - Vertical Fullips	
Photographs		
Note:	Note:	

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		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:	

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-109
Equipment ID No. SWP-P3C Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Pump anchored to concrete pad using 4 bolts with double nuts.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A</li></ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-109</u>	
Equipment ID No. <u>SWP-P3C</u> Equip. Class <u>5 – Horizontal Pumps</u>	
Equipment Description CONTROL BLDG CHILLER RECIRC PUMP P3C	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
<ol> <li>Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Lighting properly secured.</li> </ol>	Y⊠ N□ U□ N/A□
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□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-109	
Equipment ID No. SWP-P3C Equip. Class 5 – Horizontal Pum	ps
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?	$Y \boxtimes N \square U \square$
<u>Comments</u> (Additional pages may be added as necessary)	
None	
J-13-	
Evaluated by: David Bassi	Date: <u>10/1/2012</u>
Matt Keeney	
Matt Keeney	10/1/2012

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Seismic Walkdown Checklist (SWC) SVE Equipment ID No. SWP-P3C Equip. Class	s <u>5 – Horizontal Pumps</u>
Equipment Description CONTROL BLDG CHILLER RE	ECIRC PUMP P3C
Photographs	
	1 3:41рм
Note:	Note:

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Seismic Walkdown Checklist (SWC)S	Status: Y⊠ N□ U□
Equipment ID No. SWP-P3C Equip. Cla	ss <u>5 – Horizontal Pumps</u>
Equipment Description CONTROL BLDG CHILLER R	ECIRC PUMP P3C
3:41PM	
Note:	Note:

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC)SWEL1-111	
Equipment ID No. <u>SWP-SOV602A</u> Equip. Class <sup>1</sup> 8 – Motor-Operated a	and Solenoid-Operated Valves
Equipment Description STNDBY CLG TWR STATION BLACKOUT RETURN V	LV AIR SPLY LINE CNTRL
Location: Bldg. CW Floor El. 108 Room, Area 0000	
Manufacturer, Model, Etc. (optional but recommended) Tyco Instrument Model	el EF8327G41
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?</li> </ol>	Y□ N⊠
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>No missing, broken, bent or loose hardware.</li> </ol>	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?  Painted, stainless or galvanized surfaces.	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?  No cracking visible.	Y⊠ N□ U□ N/A□

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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0.1	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-111	
Equipment ID No. <u>SWP-SOV602A</u> Equip. Class <u>8 – Motor-Operated a</u>	and Solenoid-Operated Valves
Equipment Description STNDBY CLG TWR STATION BLACKOUT RETURN \ SO	/LV AIR SPLY LINE CNTRL
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	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 V	/LV AIR SPLY LINE CNTRL			
Other Adverse Conditions				
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□			
<u>Comments</u> (Additional pages may be added as necessary)				
None				
Q P Munhology				
Evaluated by: John Dunkelberg	Date: 10-5-2012			
Liveridated by. Military Darkenson	Dutc. 10-0-2012			
Jose Cardona	10-5-2012			

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Seismic Walkdown Checklist (SWC)SW	Status: Y⊠ N□ U□
Equipment ID No. SWP-SOV602A Equip. Class	8 – Motor-Operated and Solenoid-Operated Valves
Equipment Description STNDBY CLG TWR STATION E	BLACKOUT RETURN VLV AIR SPLY LINE CNTRL
Photographs	
	SWP-PNL599A2
Note:	Note:

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)S	<u>WEL1-111</u>
Equipment ID No. SWP-SOV602A Equip. Class	ss_8 – Motor-Operated and Solenoid-Operated Valves_
Equipment Description STNDBY CLG TWR STATION SO	BLACKOUT RETURN VLV AIR SPLY LINE CNTRL
Note:	Note:

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>No missing, bent, broken, or loose hardware</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A</li></ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks at sill</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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		Status:	Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SWEL1-112		
Equipment ID No. <u>JPB-RAK3</u>	Equip. Class 18 – Instrument Racks		
Equipment Description AUX BLDG LOCA	L INSTR RACK 3		
<ol> <li>Is the anchorage configuration cons (Note: This question only applies if an anchorage configuration verification)</li> </ol>	the item is one of the 50% for which	Y	U□ N/A⊠
Based on the above anchorage evaluation potentially adverse seismic condition		Y⊠ N□	U
Interaction Effects			
7. Are soft targets free from impact by	nearby equipment or structures?	Y⊠ N□	U N/A
Are overhead equipment, distribution     and masonry block walls not likely t		Y⊠ N□	U N/A
9. Do attached lines have adequate flo	exibility to avoid damage?	Y⊠ N□	U N/A
Based on the above seismic interaction of potentially adverse seismic interaction.		Y⊠ N□	U

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-112
Equipment ID No. <u>JPB-RAK3</u> 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?
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 blicks, 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

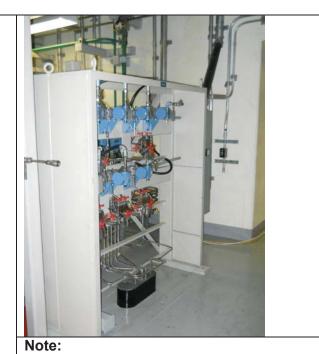
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Seismic Walkdown Checklist (SWC)	SWEL1-112	Status:	Y⊠ N	N□ U□
Equipment ID No. <u>JPB-RAK3</u>	Equip. Class 18 – Instrument Racks			
Equipment Description AUX BLDG LOCAL	_ INSTR RACK 3			

## **Photographs**







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Seismic Walkdown Checklist (SWC)	SWFI 1-112	Status: Y⊠ N□ U□
Equipment ID No. <u>JPB-RAK3</u>	Equip. Class 18 – Instrumen	t Racks
Equipment Description AUX BLDG LOCA	L INSTR RACK 3	
Note:	Note:	

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status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC)SWEL1-113
Equipment ID No. CMS-LT23A Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N☐ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Component is bolted to bracket and the mounting bracket is bolted to support.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Stainless steel mounting bracket with no visible oxidation.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Component is mounted to steel.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC) <u>SWEL1-113</u>		
Equipment ID No. CMS-LT23A Equip. Class 20 – Instrumentation and Control Panels		
Equipment Description SUPPRESSION POOL TRANSMITTER (AX 112? - 122	2')	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Y⊠ N□ U□ N/A□	
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□	
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□	
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□	
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□	

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-113	
Equipment ID No. CMS-LT23A Equip. Class 20 – Instrumentation ar	nd 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	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10-3-2012
J. P. Klunhlaug	
John Dunkelberg	10-3-2012

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Seismic Walkdown Checklist (SWC)S	Status: Y⊠ N□ U□
Equipment ID No. CMS-LT23A Equip. Class	ss 20 – Instrumentation and Control Panels
Equipment Description SUPPRESSION POOL TRAN	SMITTER (AX 112? - 122')
Photographs	
Note:	Note:

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		tus: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC)	SWEL1-113	
Equipment ID No. CMS-LT23A	Equip. Class 20 – Instrumentation and Con	trol Panels
Equipment Description SUPPRESSION P	OOL TRANSMITTER (AX 112? - 122')	
Note:	Note:	

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Colomia Malkeloven Chaoklist (CMC) CMEL 4 444	Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC)SWEL1-114	
Equipment ID No. CMS-RTD24F Equip. Class <sup>1</sup> 19 – Temperature Se	ensors
Equipment Description CNTNMNT ATMOS AND LEAKAGE MONITORING SY DETECTOR	S RESISTANCE TEMP
Location: Bldg. RB Floor El. 095 Room, Area 7100	
Manufacturer, Model, Etc. (optional but recommended) Pyco Model 122-3046	5-12-120.6
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>No bent, broken, missing or loose hardware.</li> </ol>	Y⊠ N□ U□ N/A□
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>No visible corrosion.</li> </ol>	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?  No visible cracks in concrete.	Y⊠ N□ U□ N/A□
140 VISIDIO GIAGIAS III CONGRETO.	

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

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Sciemic Wolkdown Chacklist (SWC) SWEL1 111	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-114  Equipment ID No. CMS RTD24E Equip Class 10 Temperature So	neore
Equipment ID No. CMS-RTD24F Equip. Class 19 – Temperature Se	
Equipment Description CNTNMNT ATMOS AND LEAKAGE MONITORING SYDETECTOR	YS RESISTANCE TEMP
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) - SWEL1-114	
Equipment ID No. CMS-RTD40A Equip. Class 19 – Temperature Senso	ors
Equipment Description CNTNMNT ATMOS AND LEAKAGE MONITORING SYS F	RESISTANCE TEMP
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	′⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Lange	
Evaluated by: <u>Jason Halsey</u>	Date: 10-10-2012
1 1 1 3.	
David Bassi	10-10-2012

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Seismic Walkdown Checklist (SWC) - SW	
Equipment ID No. CMS-RTD40A Equip. Class	s 19 – Temperature Sensors
Equipment Description CNTNMNT ATMOS AND LEAK DETECTOR	AGE MONITORING SYS RESISTANCE TEMP
Photographs	
Note:	Note:

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Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC) SWEL1-115	
Equipment ID No. CMS-RTD40C Equip. Class 1 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 Y N⊠ of the 50% of SWEL items requiring such verification)?	
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Item threaded into support pipe and mounted vertically. Pipe welded to Drywell wall.</li> </ol>	
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Stainless steel material no corrosion noted,</li> </ol>	
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Item is not mounted to concrete.</li> </ol> Y □ N □ U □ N/A □	

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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Seismic Walkdown Checklist (SWC)SWEL1-115	Status: Y⊠ N□ U□
Equipment ID No. CMS-RTD40C Equip. Class 19 – Temperature Se	nsors
Equipment Description CNTNMNT ATMOS AND LEAKAGE MONITORING SYDETECTOR	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-115	
Equipment ID No. CMS-RTD40C Equip. Class 19 – Temperature Se	nsors
Equipment Description CNTNMNT ATMOS AND LEAKAGE MONITORING SYDETECTOR	S RESISTANCE TEMP
Other Adverse Conditions	
11. Have you looked for and found no 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	
Matt Keeney	-
Evaluated by: Matt Keeney	Date: 10-3-2012
J. P. Munholog	
John Dunkelberg	10-3-2012

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Seismic Walkdown Checklist (SWC)SV	Status: Y⊠ N□ U□
Equipment ID No. CMS-RTD40C Equip. Class	s_19 – Temperature Sensors
Equipment Description CNTNMNT ATMOS AND LEAK DETECTOR	(AGE MONITORING SYS RESISTANCE TEMP
Photographs	
READS OF THE VIEW OF THE PROPERTY OF THE PROPE	DER-VIB ORIMIL POLITICION SIL ILI  ORIGINALI  ORIGINALI
Note:	Note:

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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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Bolts/welding to plate in place. Acceptable</li> </ol>
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□
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks noted</li> </ul>

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

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	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 XMITT	R
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	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 XMITTE	?
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? See comments	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Inspected internals, all fasteners tight, straight, no corrosion, no missing	hardware
Evaluated by: J. Dunkelberg	Date: <u>10/8/12</u>
D. Bassi	10/8/12

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Seismic Walkdown Checklist (SWC)	SWEL1-116	Status: Y⊠ N□ U□
Equipment ID No. CMS-AT25A Equip. Cl	ass <u>20</u>	
Equipment Description CNTNMNT MONITORING S	YS H2 ANALYZER XMITTR	
Photographs		
Note:	Note:	

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-117
Equipment ID No. EHS-MCC2K Equip. Class¹ 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N□ U□ N/A□</li> <li>Welded to floor sills</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>Painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ NO cracks observed</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-117</u>	
Equipment ID No. EHS-MCC2K Equip. Class 1 – Motor Control Cer Contactors	nters and Wall Mounted
Equipment Description AUXILIARY BUILDING MCC2K	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Ocionaio Malladovea Obcolaliot (CMO)	Status: Y N U
Seismic Walkdown Checklist (SWC) Equipment ID No. <u>EHS-MCC2K</u>	Equip. Class 1 – Motor Control Centers and Wall Mounted
Fautions at Description ALIVILIADY BUILD	Contactors
Equipment Description <u>AUXILIARY BUILD</u>	ING MCC2K
Other Adverse Conditions	
11. Have you looked for and found no or adversely affect the safety functions See comments	
Comments (Additional pages may be adde	d as necessary)
6B, 6C, 3B, 2C – split block cover m	ay not be fully engaged on bottom.
	in top right corner of cubicle. 2' cubicle – judged to not be a on between cubicle and cableway to right secured sufficiently to
6A – missing a screw on the transfo	rmer - lower right screw, red material directly behind fastener hole
See LB-19; CR-RBS-2012-06869	
Evaluated by: <u>J. Dunkelberg</u>	Date: 10/10/12
M. Keeney	10/10/12

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Seismic Walkdown Checklist (SWC) SWEL1-  Equipment ID No. EHS-MCC2K Equip. Class Contactors	ss_1 – Motor Control Centers and Wall Mounted
Equipment Description AUXILIARY BUILDING MCC2	<
Photographs	
ON 207F	
Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SW</u>	Status: Y⊠ N⊡ U	
	Class 1 – Motor Control Centers and Wall Mounted actors	
Equipment Description AUXILIARY BUILDING M	1CC2K	
ON SOFF INSTRUCENT AR LEAGE CONTROL		

Note:

Note:

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Seismic Walkdow	vn Checklist (SWC)	Status: Y N U U	]
Equipment ID No.	EHS-MCC2K	Equip. Class 1 – Motor Control Centers and Wall Mounted Contactors	
English and December		ONO MOCOL	







Note:

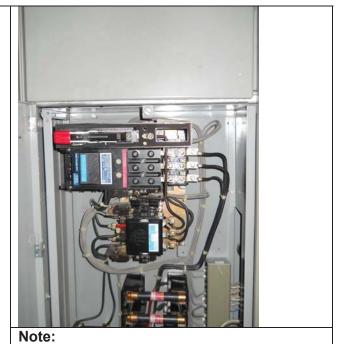
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Seismic Walkdov	vn Checklist (SWC)	SWEL1-11	Status: Y⊠ N□ 1	U
Equipment ID No.	EHS-MCC2K	Equip. Class_ Contactors	1 – Motor Control Centers and Wall Mounted	

Equipment Description <u>AUXILIARY BUILDING MCC2K</u>







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Seismic Walkdown Checklist (SWC)	Status: Y⊠ N⊡ U[	
Equipment ID No. <u>EHS-MCC2K</u>	Equip. Class 1 – Motor Control Centers and Wall Mounted Contactors	
Equipment Description AUXILIARY BUILD	ING MCC2K	
ON OFF		
Note:	Note:	

Seismic Walkdov	wn Checklist (SWC)	SWEL1-11	Status: Y⊠ N⊡ U 7	J□
Equipment ID No.	EHS-MCC2K	Equip. Class_ Contactors	1 – Motor Control Centers and Wall Mounted	

Equipment Description AUXILIARY BUILDING MCC2K







Note:

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Seismic Walkdo	wn Checklist (SWC)	SWEL1-11	Status: Y⊠ N□ U□
Equipment ID No.	EHS-MCC2K	Equip. Class_ Contactors	1 – Motor Control Centers and Wall Mounted



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Status: Y⊠ N⊡ U□
Seismic Walkdown Checklist (SWC) SWEL1-118
Equipment ID No. HCS-IGN04A Equip. Class 1 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N∑ N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Component is on the roof/dome of RB viewed from the RF floor.</li> <li>Anchorage pieces visible from RF floor are intact, no damage</li> </ol>
Is the anchorage free of corrosion that is more than mild surface
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Attached to steel containment</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-118	
Equipment ID No. <u>HCS-IGN04A</u> Equip. Class <u>0 – Other</u>	
Equipment Description H2 RECOMB IGNITER 04A	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
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□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-118	
Equipment ID No. <u>HCS-IGN04A</u> Equip. Class <u>0 – Other</u>	
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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Halay	
Evaluated by: <u>J. Halsey</u>	Date: 10/10/12
1 7 7 7 3.	
D. Bassi	10/10/12

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Seismic Walkdown Checklist (SWC)S	Status: Y⊠ N□ U□
Equipment ID No. <u>HCS-IGN04A</u> Equip. Class	ss_0 – Other
Equipment Description H2 RECOMB IGNITER 04A	
Photographs	
Note:	Note:

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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-119
Equipment ID No. <u>HVR-AOV165</u> Equip. Class <sup>1</sup> 7 – <u>Pneumatic-Operated Valves</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
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
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>Fastener painted, or free of corrosion</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-119	
Equipment ID No. <u>HVR-AOV165</u> Equip. Class 7 – <u>Pneumatic-Opera</u>	ted Valves
Equipment Description CONTMT SPLY OUTBD ISOL(AL-2-152')	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	Y□ N□ U□ N/A⊠
<ol> <li>Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions?</li> <li>Missing 1 of 8 fasteners.</li> </ol>	Y□ N□ U⊠
Interaction Effects	
7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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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')
Other Adverse Conditions
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? See comments
<u>Comments</u> (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

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Seismic Walkdown Checklist (SWC)SWEL	Status: Y⊠ N□ U□
Equipment ID No. <u>HVR-AOV165</u> Equip. Class 7	- Pneumatic-Operated Valves
Equipment Description CONTMT SPLY OUTBD ISOL(AL-	2-152')
Photographs	
Note:	ote:

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) S	WEL1-119
Equipment ID No. <u>HVR-AOV165</u> Equip. Class	ss 7 – Pneumatic-Operated Valves
Equipment Description CONTMT SPLY OUTBD ISOL	(AL-2-152')
Note:	Note:

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)	SWEL1-119
Equipment ID No. <u>HVR-AOV165</u> Equip. Cla	ass 7 – Pneumatic-Operated Valves
Equipment Description CONTMT SPLY OUTBD ISO	L(AL-2-152')
Note:	Note:

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Status: Y⊠ N⊡ U⊡			
Seismic Walkdown Checklist (SWC) SWEL1-120			
Equipment ID No. HVR-AOV123 Equip. Class 1 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			
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N⊠ of the 50% of SWEL items requiring such verification)?</li> </ol>			
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>In-line mounted valve supported from containment wall.</li> </ol>			
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Anchorage is painted, no corrosion observed.</li> </ol>			
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Component mounted in-line to pipe.</li> </ul>			

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

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-120</u>	
Equipment ID No. <u>HVR-AOV123</u> Equip. Class <u>7 – Pneumatic-Opera</u>	ted Valves
Equipment Description CONTMT SPLY INBD ISOL(42? - 152')	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-120</u>	
Equipment ID No. <u>HVR-AOV123</u> Equip. Class <u>7 – Pneumatic-Operate</u>	ed Valves
Equipment Description CONTMT SPLY INBD ISOL(42? - 152')	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: <u>10-3-2012</u>
J. P. Klundberg	
John Dunkelberg	10-3-2012

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Seismic Walkdown Checklist (SWC) <u>SWEL</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>HVR-AOV123</u> Equip. CI	ass 7 – Pneumatic-Operated Valves
Equipment Description CONTMT SPLY INBD ISOL(	42? - 152')
Photographs	
Note:	Note:

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Status: Y N U 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')
Aov
Note: Note:

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Sheet	1	of	5

Status: Y N U 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			
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>			
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>No missing, bent, broke, or loose fasteners</li> </ol>			
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>Painted</li> </ol>			
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve</li> </ul>			

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

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## 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	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Sheet 3 of 5	
	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL2-001	
Equipment ID No. CCP-MOV130 Equip. Class 8 – Motor-Operated a	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□
<u>Comments</u> (Additional pages may be added as necessary)	
Un-insulated, in-line valve	
J. P. Munhloug	
Evaluated by: <u>J. Dunkelberg</u>	Date: 10/8/12
J-13-	
D. Bassi	<u>10/8/12</u>

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## Sheet 4 of 5

Sileet 4 Of 3	
Calamia Malkdown Chaoklist (CMC) CMFL 2.0	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-0</u>	<del>001</del>
Equipment ID No. <u>CCP-MOV130</u> Equip. Clas	s 8 – Motor-Operated and Solenoid-Operated Valves
Equipment Description CCP LOOP A OUTLET ISOL V	LV
Photographs	
Note:	Note:

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## Sheet 1 of 5

Status: Y N U 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Anchor free of degraded conditions, none missing. In-line valve, not insulated</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>Painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve</li> </ul>

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

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## Sheet 2 of 5

0-11	Ol  -   (OMO)	0/4/5/ 0 000	Status: Y⊠ N□ U□
Seismic waikdo	wn Checklist (SWC)	SWELZ-002	
Equipment ID No.	CCP-MOV16A	Equip. Class 8 – Motor-Operated	and Solenoid-Operated Valves
Equipment Descrip	tion RPCCW LOOP A I	NORM SUPPLY VALVE	
(Note: This		sistent with plant documentation? the item is one of the 50% for which tion is required.)	Y□ N□ U□ N/A⊠
	ne above anchorage eva ndverse seismic condition	luations, is the anchorage free of ns?	Y⊠ N□ U□
Interaction Effects	3		
7. Are soft targ	gets free from impact by	nearby equipment or structures?	Y⊠ N□ U□ N/A□
		n systems, ceiling tiles and lighting, o collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached	l lines have adequate fle	exibility to avoid damage?	Y⊠ N□ U□ N/A□
	ne above seismic interac v adverse seismic intera	tion evaluations, is equipment free	Y⊠ N□ U□

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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 Y N U U □ adversely affect the safety functions of the equipment?
Comments (Additional pages may be added as possessary)
<u>Comments</u> (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
J-13-
D. Bassi 10/8/12

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# Sheet 4 of 5

Seismic Walkdown Checklis	t (SWC) <u>SWEL2-002</u>	Status: Y⊠ N□ U□
Equipment ID No. CCP-MOV16	A Equip. Class 8 – Motor-Operated and	Solenoid-Operated Valves
Equipment Description RPCCW	LOOP A NORM SUPPLY VALVE	

## **Photographs**



Note:



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## Sheet 5 of 5

Seismic Walkdown Checklist (SWC) <u>SWEL2</u>	Status: Y⊠ N□ U□
Seisiffic Walkdown Checklist (SWC)	-002
Equipment ID No. <u>CCP-MOV16A</u> Equip. Cla	ss_8 – Motor-Operated and Solenoid-Operated Valves_
Equipment Description RPCCW LOOP A NORM SUF	PPLY VALVE
DC P#K O VIOA	
Note:	Note:

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Status: Y⊠ N⊡ U⊡				
Seismic Walkdown Checklist (SWC) <u>SWEL2-003</u>				
Equipment ID No. CCP-MOV163 Equip. Class 1 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) <u>Velan Model W08-2074X-02TS</u>				
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				
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>				
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>In-line valve, CS, no bend, broken, or missing hardware.</li> </ol>				
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>Painted</li> </ol>				
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve</li> </ul>				

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

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SHEET 2 OF 5	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-003</u>	Status. T N N U
Equipment ID No. <u>CCP-MOV163</u> Equip. Class <u>8 – Motor-Operated a</u>	nd Solenoid-Operated Valves
Equipment Description CRD PUMPS SUPPLY VLV	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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SHEET 3 OF 5	Otatus VM ND HD
Seismic Walkdown Checklist (SWC) SWEL2-003	Status: Y⊠ N□ U□
Equipment ID No. CCP-MOV163 Equip. Class 8 – Motor-Operated a	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□
<u>Comments</u> (Additional pages may be added as necessary)	
In-line, un-insulated valve	
1 13.	
Evaluated by: David Bassi	Date: 10/9/2012
J. P. Munhloug	
John Dunkelberg	10/9/2012

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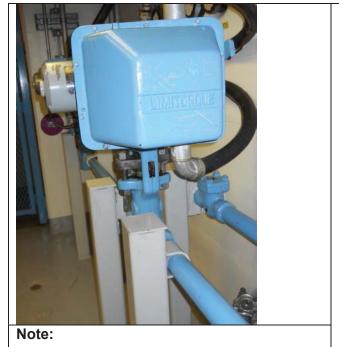
SHEET 4 OF 5	Status: VM NI III
Seismic Walkdown Checklist (SWC) _	Status: Y N U U
Equipment ID No. CCP-MOV163	Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves
Equipment Description CRD PUMPS SUPP	PLY VLV
Photographs	
000	



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SHEET 5 OF 5

SHEET S OF S	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) _	
Equipment ID No. CCP-MOV163	Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves
Equipment Description CRD PUMPS SUPP	PLY VLV





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SHEET 6 OF 6

Status: Y⊠ N□ U□

Seismic Walkdown Checklist (SWC) <u>SWEL2-003</u>

Equipment ID No. CCP-MOV163 Equip. Class 8 – Motor-Operated and Solenoid-Operated Valves

Equipment Description CRD PUMPS SUPPLY VLV



Note:



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	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL2-004</u>	
Equipment ID No. CCP-MOV335 Equip. Class 1 8 – Motor-Operated a	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 822	26-EX-C-12
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)?	Y□ N⊠
Is the anchorage free of bent, broken, missing or loose hardware?     No missing hardware. All Okay	Y⊠ N□ U□ N/A□
Is the anchorage free of corrosion that is more than mild surface oxidation?  Painted	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?  In-line valve	Y□ N□ U□ N/A⊠

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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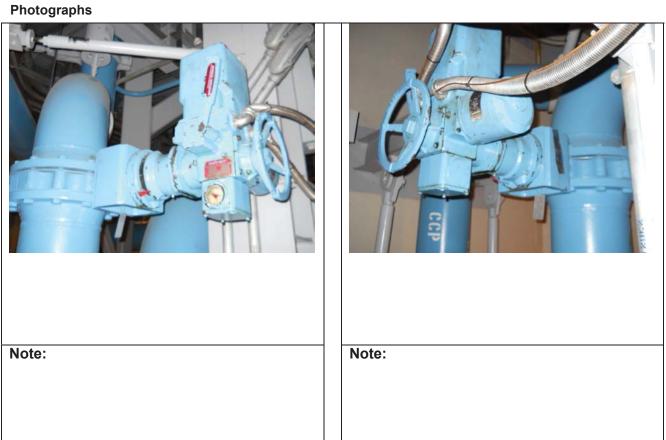
SHEET 2 OF 5	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-004</u>	Status. I N IV U
Equipment ID No. CCP-MOV335 Equip. Class 8 – Motor-Operated a	nd Solenoid-Operated Valves
Equipment Description CCP LOOP A OUTLET MTR OPERATED ISOL VLV	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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SHEET 3 OF 5	Status: V⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL2-004	Status: Y⊠ N□ U□
Equipment ID No. <u>CCP-MOV335</u> Equip. Class <u>8 – Motor-Operated a</u>	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□
<u>Comments</u> (Additional pages may be added as necessary)	
Un-insulated valve, in-line	
1).13.	
Evaluated by: D. Bassi	Date: 10/8/12
J. P. Klundberg	
J. Dunkelberg	10/8/12

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SHEET 4 OF 5	Status: Y⊠ N□ U□			
Seismic Walkdown Checklist (SWC) SWEL2-004	Status. F N N U			
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				



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SHEET 5 OF 5

OHEET OOF O	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-</u>	
Equipment ID No. <u>CCP-MOV335</u> Equip. Cla	ss 8 – Motor-Operated and Solenoid-Operated Valves
Equipment Description CCP LOOP A OUTLET MTR (	PERATED ISOL VLV
Note:	Note:

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Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL2-005
Equipment ID No. <u>EHS-MCC2H</u> Equip. Class¹ 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>MCC is welded to embedded sill.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A Painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks visible.</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-005</u>	
Equipment ID No. <u>EHS-MCC2H</u> Equip. Class <u>1 – Motor Control Centers ar</u>	nd 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□
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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Status: Y N U 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? 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
Matt Keeney
Evaluated by: Matt Keeney Date: 10/10/2012
John Dunkelberg 10/10/2012

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Seismic Walkdown Checklist (SWC) <u>SWEL2-005</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>EHS-MCC2H</u> Equip. Class <u>1 – Motor Control Centers and</u>	Wall-Mounted Contactors
Equipment Description AUXILIARY BUILDING MCC2H	

# **Photographs**







Note:			

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Seismic Walkdown Checklist (SWC) SWEL2-0  Equipment ID No. EHS-MCC2H Equip. Class 1 - N	
Equipment Description AUXILIARY BUILDING MCC2H	1
513800 5HT-13 1E	ON COFF 4
Note:	Note:

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Status:	$Y \boxtimes$	N	U
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# Seismic Walkdown Checklist (SWC) SWEL2-005

Equipment ID No. <u>EHS-MCC2H</u> Equip. Class <u>1 – Motor Control Centers and Wall-Mounted Contactors</u>

Equipment Description AUXILIARY BUILDING MCC2H







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Seismic Walkdown Checklist (SWC) <u>SWEL2-</u>	Status: Y⊠ N□ U□		
Equipment ID No. <u>EHS-MCC2H</u> Equip. Class <u>1 – </u>	Motor Control Centers and Wall-Mounted Contactors		
Equipment Description AUXILIARY BUILDING MCC2	Н		
Equipment Description AUXILIARY BUILDING MCC2H   The state of the stat			
Note:	Note:		

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		Status:	$Y \boxtimes N \square U \square$
Seismic Walkdown Checklist (SWC) _	SWEL2-005		

Equipment ID No. <u>EHS-MCC2H</u> Equip. Class <u>1 – Motor Control Centers and Wall-Mounted Contactors</u>

Equipment Description AUXILIARY BUILDING MCC2H





Note:

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# Seismic Walkdown Checklist (SWC) SWEL2-005

Equipment ID No. <u>EHS-MCC2H</u> Equip. Class <u>1 – Motor Control Centers and Wall-Mounted Contactors</u>

Equipment Description AUXILIARY BUILDING MCC2H





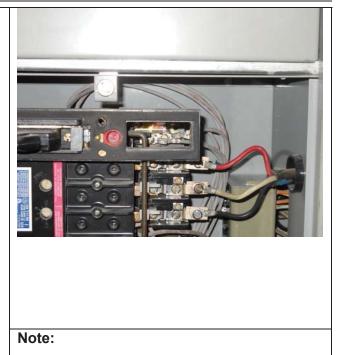
Note:

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		Status: `	$Y \boxtimes N \square U \square$
Seismic Walkdown Checklist (SWC) _	SWEL2-005		

Equipment ID No. <u>EHS-MCC2H</u> Equip. Class <u>1 – Motor Control Centers and Wall-Mounted Contactors</u>
Equipment Description <u>AUXILIARY BUILDING MCC2H</u>





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Seismic Walkdown Checklist (SWC) SWEL2-	
Equipment ID No. <u>EHS-MCC2H</u> Equip. Class <u>1 – I</u>	Motor Control Centers and Wall-Mounted Contactors
Equipment Description AUXILIARY BUILDING MCC2	H
Note:	Note:
	1

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		Status:	$Y \boxtimes N \square U \square$	
Obsolution (OM/O)	CMELOGOE			

Seismic Walkdown Checklist (SWC) SWEL2-005

Equipment ID No. <u>EHS-MCC2H</u> Equip. Class <u>1 – Motor Control Centers and Wall-Mounted Contactors</u>

Equipment Description AUXILIARY BUILDING MCC2H







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Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL2-005
Equipment ID No. <u>EHS-MCC2H</u> Equip. Class <u>1 – Motor Control Centers and Wall-Mounted Contactors</u>
Equipment Description AUXILIARY BUILDING MCC2H
Note:

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Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL2-006</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y⊠ N□ U□ N/A□</li> <li>Welded to embedded sill</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A U N/A U N/A U N/A U N/A U N/A</li> <li>Painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ NO visible cracks</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{\scriptsize name}}$  from Appendix B: Classes of Equipment.

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Seismic Walkdown Checklist (SWC)	SWEL2-006	Status: Y⊠ N□ U□
Equipment ID No. <u>EHS-MCC8B</u>	Equip. Class 1, Motor Control Center Contactors	ers and Wall-Mounted
Equipment Description STANDBY SWGR	RM 1B MCC8B	
<ol> <li>Is the anchorage configuration cons (Note: This question only applies if t an anchorage configuration verificat Ref. 248.000; 0242.562-082-004 Verified in accordance with above d</li> </ol>	he item is one of the 50% for which ion is required.)	Y⊠ N□ U□ N/A□
Based on the above anchorage eva potentially adverse seismic condition		Y⊠ N□ U□
Interaction Effects		
7. Are soft targets free from impact by	nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distributio and masonry block walls not likely to		Y⊠ N□ U□ N/A□
9. Do attached lines have adequate fle	xibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction of potentially adverse seismic interaction.	• •	Y⊠ N□ U□

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Seismic Walkdown Checklist (SV	Status: Y⊠ N□ U□  VC) <u>SWEL2-006</u>	
Equipment ID No. <u>EHS-MCC8B</u>	Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors	
Equipment Description STANDBY SWGR RM 1B MCC8B		
Other Adverse Conditions		
<ol> <li>Have you looked for and found adversely affect the safety func</li> </ol>	no other seismic conditions that could Y☐ N☒ U☐ tions of the equipment?	
See comments below		

Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No. <u>EHS-MCC8B</u>	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  $\frac{1}{2}$ " wide x  $\frac{1}{8}$ " 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

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		Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC)	SWEL2-006	
Equipment ID No. <u>EHS-MCC8B</u>	Equip. Class 1, Motor Control Cente Contactors	ers and Wall-Mounted
Equipment Description STANDBY SWGR	RM 1B MCC8B	
That ,	Keeney	Date: 10/11/12
J. Dunkelberg	fundling	10/11/12

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Seismic Walkdown Checklist (SWC)	Status: Y⊠ N□ U□	
Equipment ID No. <u>EHS-MCC8B</u>	Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors	
Equipment Description STANDBY SWGR RM 1B MCC8B		
Photographs		





Note:

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Seismic Walkdown Checklist (SWC)	SWEL2-006	Statu	us: Y⊠ N□ U□
	Equip. Class <u>1, Moto</u> Contactors	r Control Centers and V	Vall-Mounted
Equipment Description STANDBY SWGR R	RM 1B MCC8B		
Note:	Note:		

Seismic Walkdo	wn Checklist (SWC)	Status: Y N N Status: Y N N N N N N N N N N N N N N N N N N	UL
Equipment ID No.	EHS-MCC8B	Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors	

Equipment Description STANDBY SWGR RM 1B MCC8B







Seismic Walkdov	vn Checklist (SWC)	SWEL2-00	Status: Y⊠ N⊡ U⊡ 96	]
Equipment ID No.	EHS-MCC8B	Equip. Class_	1, Motor Control Centers and Wall-Mounted	

Equipment Description STANDBY SWGR RM 1B MCC8B



Note:



Seismic Walkdo	wn Checklist (SWC)	Status: Y N N Status: Y N N	U
Equipment ID No.	EHS-MCC8B	Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors	

Equipment Description STANDBY SWGR RM 1B MCC8B



Note:

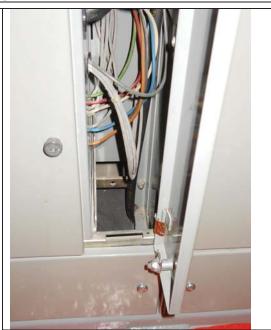


Seismic Walkdo	wn Checklist (SWC)	SWEL2-006	Status:	Y⊠ N□ U□
Equipment ID No.	EHS-MCC8B	Equip. Class <u>1, Mo</u> Contactors	otor Control Centers and Wall-	Mounted

Equipment Description STANDBY SWGR RM 1B MCC8B

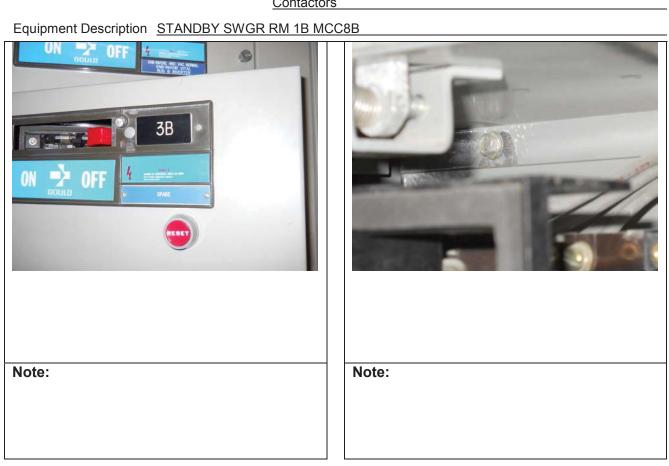






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Seismic Walkdow	vn Checklist (SWC)	Status: Y⊠ N□ U[ SWEL2-006	
Equipment ID No.	EHS-MCC8B	Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors	



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Seismic Walkdown Checklist (SWC)	Status: Y N U U
Equipment ID No. <u>EHS-MCC8B</u>	Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors
Equipment Description STANDBY SWGR	RM 1B MCC8B
ON POFF	

Note:

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Seismic Walkdown Checklist (SWC)	Status: Y N U
Equipment ID No. <u>EHS-MCC8B</u>	Equip. Class 1, Motor Control Centers and Wall-Mounted Contactors
Equipment Description STANDBY SWGR	RM 1B MCC8B
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Note:	Note:

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Seismic Walkdown Checklist (SWC) <u>SWEL2</u>	Status: Y⊠ N□ U□
Equipment ID No. EHS-MCC8B Equip. Cla	ass 1, Motor Control Centers and Wall-Mounted
Equipment Description STANDBY SWGR RM 1B MG	CC8B
ON ≥ OFF	
Note:	Note:

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Seismic Walkdown Checklist (SWC)	SWEL2-0	Status: Y⊠ N□ U□
Equipment ID No. <u>EHS-MCC8B</u>	Equip. Class Contactors	s 1, Motor Control Centers and Wall-Mounted
Equipment Description STANDBY SWGR	RM 1B MCC	8B
SC ON SULP OFF A		
Note:		Note:

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Equipment ID No. <u>EHS-MCC8B</u> Equip. Class 1, Motor Control Centers and Wall-Mounted	
Contactors	
Equipment Description STANDBY SWGR RM 1B MCC8B	
7C	
Note: Note:	

Seismic Walkdov	wn Checklist (SWC)	SWEL2-006		Y⊠ N□ U□
Equipment ID No.	EHS-MCC8B	Equip. Class	1, Motor Control Centers and Wall	-Mounted



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### Sheet 1 of 5

Status: Y N U	
Seismic Walkdown Checklist (SWC) <u>SWEL2-008</u>	
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 are findings. Additional space is provided at the end of this checklist for documenting other comments.	
Anchorage	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N⊠ of the 50% of SWEL items requiring such verification)?</li> </ol>	
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>No missing hardware, in-line valve. Welded to pipe. Operator attachment bolts all acceptable.</li> </ol>	
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Stainless steel materials</li> </ol>	
4. Is the anchorage free of visible cracks in the concrete near the anchors?  In-line valve	

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

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SHEET 2 OF 5	Ctatura VM ND ND
Seismic Walkdown Checklist (SWC) <u>SWEL2-008</u>	Status: Y⊠ N⊡ U⊡
Equipment ID No. SFC-AOV31A Equip. Class 7 – Pneumatic-Opera	ted Valves
Equipment Description F POOL PRFCN FLT1A BYP FD-6-87'	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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SHEET 3 OF 5	Status: VM NM HM
Seismic Walkdown Checklist (SWC) SWEL2-008	Status: Y⊠ N□ U□
Equipment ID No. SFC-AOV31A Equip. Class 7 – Pneumatic-Operation	ed 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	
1 D ( / // // // / // // // // // // // //	
1 K Munhtery	
Evaluated by: John Dunkelberg	Date: 10/9/2012
()	
David Bassi	10/9/2012

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SHEET 4 OF 4  Seismic Walkdown Checklist (SWC)SWEL2-00	Status: Y⊠ N□ U□
Equipment ID No. SFC-AOV31A Equip. Class	7 – Pneumatic-Operated Valves
Equipment Description F POOL PRFCN FLT1A BYP FI  Photographs	D-6-87'

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IA	ote.	

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### Sheet 1 of 5

Status: Y N U 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Stainless in-line valve not insulated. No missing, bent, broken, loose hardware noted</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Stainless materials and painted</li> </ol> Y∑ N☐ U☐ N/A☐
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve</li> </ul>

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

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SHEET 2 OF 5	Status: V N N II
Seismic Walkdown Checklist (SWC) SWEL2-009	Status: Y N U
Equipment ID No. <u>SFC-AOV32B</u> Equip. Class <u>7 – Pneumatic-Oper</u>	ated Valves
Equipment Description F POOL PRFCN FLT1B INLET FD-9-87'	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment?	, Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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SHEET 3 OF 5	Ctatus VM ND HD
Seismic Walkdown Checklist (SWC) SWEL2-009	Status: Y⊠ N□ U□
Equipment ID No. SFC-AOV32B Equip. Class 7 – Pneumatic-Operat	ted 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□
<u>Comments</u> (Additional pages may be added as necessary)	
In-line valve, stainless steel line, not insulated	
Evaluated by: J. Dunkelberg	Date: 10/9/12
	54.6. <u>10/0/12</u>
1)13.	
D. Bassi	10/9/12

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SHEET 4 OF 5	Status: V⊠ N□ II□
Seismic Walkdown Checklist (SWC) <u>SWEL2-0</u>	Status: Y⊠ N⊡ U⊡
Equipment ID No. SFC-AOV32B Equip. Class	s_7 - Pneumatic-Operated Valves
Equipment Description F POOL PRFCN FLT1B INLET	FD-9-87'
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) SWEL2-009

Equipment ID No. SFC-AOV32B Equip. Class 7 - Pneumatic-Operated Valves

Equipment Description FPOOL PRFCN FLT1B INLET FD-9-87'

Note: Note:

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### Sheet 1 of 5

Status: Y N U
Seismic Walkdown Checklist (SWC) SWEL2-012
Equipment ID No. SFC-FT19B Equip. Class¹_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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>Transmitter mounted to a bracket with 4 bolts then mounted to instrument support. Support welded to wall embed.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A No corrosion. Cadmium coated</li> </ol>
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y□ N□ U□ N/A□ anchors?

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

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SHEET 2 OF 5	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL2-012</u>	Status. T N N U
Equipment ID No. SFC-FT19B Equip. Class 20 – Instrumentation a	and Control Panels
Equipment Description CLR WTR TO SPENT FUEL POOLS FE-8-75'	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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SHEET 3 OF 5	Ctatus VM ND HD
Seismic Walkdown Checklist (SWC) SWEL2-012	Status: Y⊠ N□ U□
Equipment ID No. SFC-FT19B Equip. Class 20 – Instrumentation a	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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
J-173.	
Evaluated by: David Bassi	Date: 10/9/2012
John Dunkelberg	10/9/2012

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SHEET 4 OF 5	Ctatus VN ND UD
Seismic Walkdown Checklist (SWC) SWEL2-012	Status: Y⊠ N□ U□
Equipment ID No. SFC-FT19B Equip. Class 2	20 – Instrumentation and Control Panels
Equipment Description CLR WTR TO SPENT FUEL POO	DLS FE-8-75'
Photographs	
SWEL2-012 SFC-FT19B	
Note:	Note:

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SHEET 5 OF 5

Status: Y⊠ N□ U□

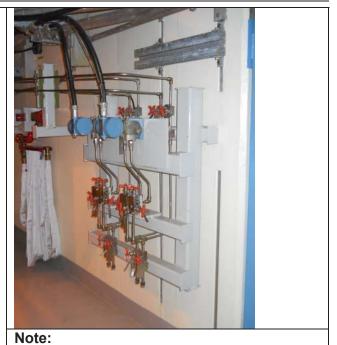
Seismic Walkdown Checklist (SWC) SWEL2-012

Equipment ID No. SFC-FT19B Equip. Class 20 – Instrumentation and Control Panels

Equipment Description CLR WTR TO SPENT FUEL POOLS FE-8-75'







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### Sheet 6 of 6

Seismic Walkdown Checklist (SWC) SWEL2-0	Status: Y⊠ N□ U□
Equipment ID No. SFC-FT19B Equip. Clas	
Equipment Description CLR WTR TO SPENT FUEL PO	OOLS FE-8-75'
Note:	Note:

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<b>Sheet</b>	1	of	5
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Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-013</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>All hardware is in place and not bent, broken or loose.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Stainless steel materials, no corrosion.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>Component mounted to pool steel (liner/embed)</li> </ul>

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

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SHEET 2 OF 5	04-4 VM NM UM
Seismic Walkdown Checklist (SWC) SWEL2-013	Status: Y⊠ N□ U□
Equipment ID No. SFC-LT28A Equip. Class 20 – Instrumentation	and Control Panels
Equipment Description FUEL STORAGE POOL (SPENT FUEL) LEVEL XMITT	ΓR
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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SHEET 3 OF 5	Status: VM NM HM
Seismic Walkdown Checklist (SWC) SWEL2-013	Status: Y⊠ N□ U□
Equipment ID No. SFC-LT28A Equip. Class 20 – Instrumentation ar	nd Control Panels
Equipment Description FUEL STORAGE POOL (SPENT FUEL) LEVEL XMITTE	<u> </u>
Other Adverse Conditions	
11. Have you looked for and found no 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
- Laudono	
Jose Cardona	10-5-2012

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SHEET 4 OF 5

Sheet 4 or 5	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-013</u>	
Equipment ID No. SFC-LT28A Equip. Class 20 – Instrumentation and	Control Panels
Equipment Description FUEL STORAGE POOL (SPENT FUEL) LEVEL XMITTR	

## **Photographs**







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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:

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#### Sheet 1 of 4

Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL2-014</u>
Equipment ID No. SFC-P1A Equip. Class¹_ 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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>No missing, broken, bent or loose fasteners.</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A N/A</li> <li>Minor surface rust.</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A</li></ul>

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

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SHEET 2 OF 4		Status: Y⊠ N□ U□
Seismic Walkdown Checklist	(SWC) <u>SWEL2-014</u>	
Equipment ID No. SFC-P1A	Equip. Class 5 – Horizontal Pump	S
Equipment Description FUEL POO	OL COOLING PUMP 1A	
	tion consistent with plant documentation? pplies if the item is one of the 50% for which verification is required.)	Y□ N□ U□ N/A⊠
Based on the above anchor potentially adverse seismic	rage evaluations, is the anchorage free of conditions?	Y⊠ N□ U□
Interaction Effects		
7. Are soft targets free from in	npact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
	listribution systems, ceiling tiles and lighting, of likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have ade	equate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismi of potentially adverse seism	c interaction evaluations, is equipment free nic interaction effects?	Y⊠ N□ U□

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SHEET 3 OF 4	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL2-014	Status. F N N U
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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
J. P. Klunhlaug	
Evaluated by: John Dunkelberg	Date: 10-5-2012
And Carlose	
Jose Cardona	10-5-2012

SHEET 4 OF 4

	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-014</u>	
Equipment ID No. SFC-P1A Equip. Class 5 – Horizontal Pumps	
Equipment Description FUEL POOL COOLING PUMP 1A	

# **Photographs**







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### Sheet 1 of 5

Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-015</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>In-line (in pipe) thermo well</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Stainless pipe and fittings</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In line device</li> </ul>

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

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SHEET 2 OF 5	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL2-015	Status. TA NO U
Equipment ID No. SFC-RTD7A Equip. Class 19 – Temperature Set	nsors
Equipment Description FUEL POOL CLG PMP A SUCT HEADER RESISTAND	CE TEMP DETECTOR
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

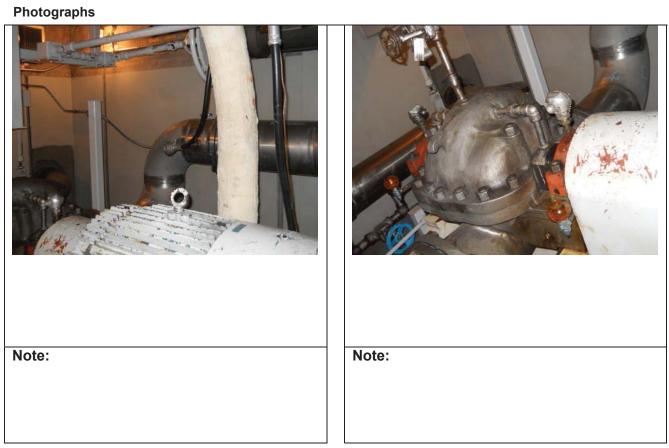
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SHEET 3 OF 5	Ctatus: VV NV II
Seismic Walkdown Checklist (SWC) SWEL2-015	Status: Y⊠ N□ U□
Equipment ID No. SFC-RTD7A Equip. Class 19 – Temperature Sen	sors
Equipment Description FUEL POOL CLG PMP A SUCT HEADER RESISTANCE	E TEMP DETECTOR
Other Adverse 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□
<b>Comments</b> (Additional pages may be added as necessary)	
SFC pump room A	
J. P. Klanhleug	
Evaluated by: John Dunkelberg	Date: 10/9/2012
Low I Carlos	
Jose` Cardona	10/9/2012

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SHEET 4 OF 5

SHEET 4 OF 5	Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC) <u>SWEL2-015</u>		
Equipment ID No. SFC-RTD7A Equip. Class 19 – Temperature Sensor	ors	
Equipment Description FUEL POOL CLG PMP A SUCT HEADER RESISTANCE TEMP DETECTOR		



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SHEET 5 OF 5  Status: Y⊠ N□ U□			
Seismic Walkdown Checklist	(SWC) <u>SWEL2-015</u>	— Status	6. T N N U
Equipment ID No. SFC-RTD7A	Equip. Class 19 -	- Temperature Sensors	
Equipment Description FUEL PO	OL CLG PMP A SUCT HEA	DER RESISTANCE TEMP D	ETECTOR
Note:	Not	e:	

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## Sheet 1 of 5

Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL2-016</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>In-line valve, no insulation</li> </ol>
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?  Light rusting
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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SHEET 2 OF 5	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL2-016</u>	Status. T N N U
Equipment ID No. <u>SWP-MOV504B</u> Equip. Class <u>8 - Motor-Operated</u>	& Solenoid-Operated Valves
Equipment Description RPCCW SYSTEM RETURN	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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SHEET 3 OF 5	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL2-016	Status. I N IV U
Equipment ID No. <u>SWP-MOV504B</u> Equip. Class <u>8 - Motor-Operated &amp;</u>	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	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10/8/2012
Brandon Nissing	10/8/2012

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SHEET 4 OF 5	Otatua, VM NI III
Seismic Walkdown Checklist (SWC) <u>SWEL2-0</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>SWP-MOV504B</u> Equip. Class	s 8 - Motor-Operated & Solenoid-Operated Valves
Equipment Description RPCCW SYSTEM RETURN	
Photographs	
Note:	Note:

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SHEET 5 OF 5

	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL2-016</u>	
Equipment ID No. <u>SWP-MOV504B</u> Equip. Class <u>8 - Motor-Operated &amp; Sole</u>	enoid-Operated Valves
Equipment Description RPCCW SYSTEM RETURN	



Note: Note:

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## Sheet 1 of 5

Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) <u>SWEL2-017</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N□ U□ N/A□</li> <li>In-line valve</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A N/A</li> <li>Painted</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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SHEET 2 OF 5	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL2-017	
Equipment ID No. <u>SWP-MOV510B</u> Equip. Class <u>8 - Motor-Operated &amp;</u>	Solenoid-Operated Valves
Equipment Description RPCCW SYSTEM SUPPLY	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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SHEET 3 OF 5	Status: VM ND UD
Seismic Walkdown Checklist (SWC) SWEL2-017	Status: Y⊠ N□ U□
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□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10/8/2012
Brandon Nissing	10/8/2012

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SHEET 4 OF 5  Seismic Walkdown Checklist (SWC) SWEL2-	Status: Y⊠ N□ U□
Equipment ID No. <u>SWP-MOV510B</u> Equip. Cla	
Equipment Description RPCCW SYSTEM SUPPLY	
Photographs	
18 WP * MOVS I DB	

Note:

Note:

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SHEET 5 OF 5	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL2-017	Status. TA NO OL
Equipment ID No. <u>SWP-MOV510B</u> Equip. Class <u>8 - M</u>	otor-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

AWC#	SWEL#
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

AWC#	SWEL#
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
L	

AWC #	SWEL#
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

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Area Walk-By Checklist (AWC) <u>AWC-1010</u>	Status: Y⊠ N□ U□
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 new space below each of the following questions may be used to record the result Additional space is provided at the end of this checklist for documenting other spaces.	ults of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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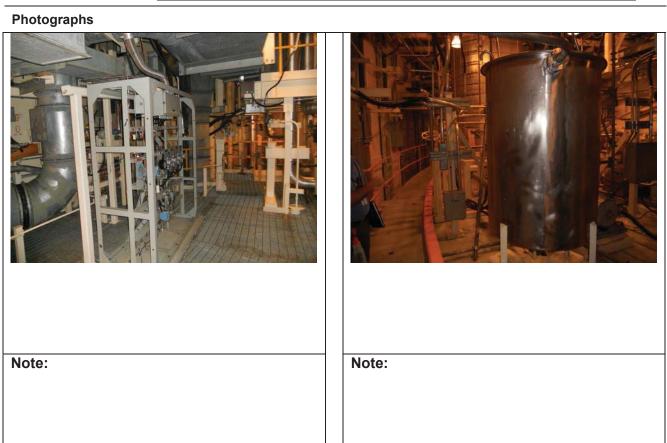
Area	Wa	ılk-By	Checklist (	(AWC)	AWC-1010			Status: `	Y⊠ N□ L	J
Locat	on:	Bldg.	RB	Floor El.	141	Room, Area	7200			
4.	sp		teractions wi			ally adverse so ne area (e.g., c		Y⊠ N□ U	J□ N/A□	
5.						ally adverse so y in the area?	eismic	Y⊠ N□ U	J□ N/A□	
6.			ppear that th			ally adverse se a?	eismic	Y⊠ N□ U	J□ N/A□	
7.	int po	eractio	ns associate equipment, a	d with hou	sekeeping pr	ally adverse se actices, storaç ons (e.g., scaff	ge of	Y⊠ N□ U	J□ N/A□	

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Area Walk-By Checklist (AWC)AWC-1010_	Status: Y⊠ N□ U□
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?  Output  Description:	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
None	
That Keeney  Evaluated by: Matt Keeney	Date: 10-9-2012
,	
A. O.	
Jason Halsey	10-9-2012

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Area Walk-By Checklist (AWC)AWC-1010		status: Y⊠ N□ U□
Location: Bldg. <u>RB</u> Floor El. <u>141</u>	Room, Area <u>7200</u>	
SWEL Components: SWEL1-010		



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Area Walk-By Checklist (AWC) <u>AWC-1012</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>RB</u> Floor El. <u>114</u> Room, Area	1 7200
SWEL Components: SWEL1-012	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area W space below each of the following questions may be used to reco Additional space is provided at the end of this checklist for docum	rd the results of judgments and findings.
1. Does anchorage of equipment in the area appear to be free potentially adverse seismic conditions (if visible without ne opening cabinets)?	
Does anchorage of equipment in the area appear to be fre significant degraded conditions?	ee of Y⊠ N□ U□ N/A□
<ol> <li>Based on a visual inspection from the floor, do the cable/c raceways and HVAC ducting appear to be free of potentia seismic conditions (e.g., condition of supports is adequate conditions of cable trays appear to be inside acceptable lir</li> </ol>	lly adverse and fill

 $<sup>^{1}</sup>$  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.

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Area \	Nalk-E	y Ch	necklist (A	.WC)	AWC-1012	_				Status	Y	N□	U
Locatio	n: Bld	g. <u>Rl</u>	3	Floor El.	114	Room, A	rea	7200					
4.		intera	actions with		ee of potent uipment in tl				Υ[	⊠ N□	U <u></u> N	N/A□	
5.					ee of potent oding or spra			eismic	ΥĮ	⊠ N□	U <u></u>	N/A□	
6.					ee of potent re in the are		se se	eismic	Υ[	⊠ N□	U <u></u>	N/A□	
7.	interac	tions e equ	associated	with hous	ee of potent sekeeping p ary installatio	ractices, s	torag	e of		⊠ N□	U <u></u>	N/A□	

Area Walk-By Checklist (AWC)AWC-1012_	Status: Y⊠ N□ U□
Location: Bldg. RB Floor El. 114 Room, Area 7200	
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	
Matt Keeney	
Evaluated by: Matt Keeney	Date: <u>10-3-2012</u>
John Dunkelberg	10-3-2012

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Area Walk-By Checklist (AWC)AWC-1014_	Status: Y⊠ N□ U□
Location: Bldg. <u>AB</u> Floor El. <u>070</u> Room, Area¹ <u>6006</u>	_
SWEL Components: SWEL1-014, SWEL 1-015, SWEL 1-018, SWEL	1-019, SWEL 1-021
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near of space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other of the control of the co	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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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Area \	Wall	k-Bv	Checklist (A	AWC)	AWC-1014			Status:	Y⊠ N□	U
Location				Floor El.		Room, Area	6006			
4.	spa		teractions with			ally adverse so ne area (e.g., c		Y⊠ N□	U□ N/A□	
5.						ally adverse soy in the area?	eismic	Y⊠ N□	U□ N/A□	
6.			opear that the			ally adverse so a?	eismic	Y⊠ N□	U□ N/A□	
7.	inte port	ractio	ns associated equipment, ar	with hous	sekeeping pr	ally adverse s actices, storaç ons (e.g., scaff	ge of	Y⊠ N□	U□ N/A□	

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Area Walk-By Checklist (AW	C) AWC-1014	1		Status: Y⊠ N□ U□
	or El. <i>070</i>	Room, Area	6006	
Have you looked for and for adversely affect the safety	ound no other sei	smic conditions	that could	Y⊠ N□ U□
Comments (Additional pages ma None	y be added as ne	cessary)		
Evaluated by: <u>John Dunkelberg</u>	J P 14	t Card	lano	Date: <u>10-6-2012</u>
lose Cardona	/			10-6-2012

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Area W	alk-By Checklist	(AWC) <u>AWC-10</u>	<u>16</u>	Status: Y⊠ N□ U□					
Location	: Bldg. <u>AB</u>	Floor El. 070	Room, Area <sup>1</sup> 6008						
SWEL	SWEL Components: SWEL1-016, SWEL2-002								
This che space be	elow each of the follo	o document the resu owing questions may	Its of the Area Walk-By near be used to record the results ecklist for documenting other						
р			appear to be free of risible without necessarily	Y⊠ N□ U□ N/A□					
	oes anchorage of edignificant degraded of edig		appear to be free of	Y⊠ N□ U□ N/A□					
ra S	aceways and HVAC eismic conditions (e	ducting appear to be g., condition of supp	r, do the cable/conduit free of potentially adverse orts is adequate and fill de acceptable limits)?	Y⊠ N□ U□ N/A□					

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Area \	Walk	c-Bv	Checklist (A	AWC)	AWC-1016			Status:	Y⊠ N□	U
Locatio				Floor El.		Room, Area	6008			
4.	spat		teractions with			ally adverse so ne area (e.g., c		Y⊠ N□	U□ N/A□	
5.						ally adverse s y in the area?	eismic	Y⊠ N□	U□ N/A□	
6.			opear that the ns that could (			ally adverse s a?	eismic	Y⊠ N□	U□ N/A□	
7.	inter porta	actio	ns associated equipment, an	with hous	sekeeping pr	ally adverse soractices, storactices, scaff	ge of	Y⊠ N□	U□ N/A□	

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Area Walk-By Checklist (AWC) <u>AWC-1016</u>	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 070 Room, Area 6008	
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  Add Adams	Date: <u>10/6/2012</u>
Jose` Cardona	10/6/2012

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Area \	Walk-By Checklis	t (AWC) <u>AWC-10</u>	<u> 117</u>	Status: Y⊠	$N \square U \square$
Locatio	on: Bldg. <u>AB</u>	Floor El. 070	Room, Area <sup>1</sup> 6112		
SWEL	. Components: <u>SV</u>	WEL1-017, SWEL1-	-022		
This ch	below each of the fol	to document the resultowing questions may	ults of the Area Walk-By nea be used to record the resulute of the resulute of the documenting other	ts of judgments and fi	
		equipment in the area seismic conditions (if v	a appear to be free of visible without necessarily	Y⊠ N□ U□	N/A
2.	Does anchorage of significant degraded	equipment in the area I conditions?	a appear to be free of	Y⊠ N□ U□	N/A
3.	raceways and HVA0 seismic conditions (	C ducting appear to be e.g., condition of supp	or, do the cable/conduit e free of potentially adverse ports is adequate and fill ide acceptable limits)?	Y⊠ N□ U□	N/A

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Area Walk-By Checklist (AWC) <u>AWC-1017</u>								Status: Y⊠ N□ U□		
Locatio	n: Bldg	ı. <u>AB</u>	Floor E	I. <u>070</u>	Room, Are	a <u>6112</u>				
4.		interaction			tentially adverse in the area (e.g.		Y⊠ N□	U N/A		
5.					tentially adverse spray in the area		Y⊠ N□	U□ N/A□		
6.			that the area is t could cause a		tentially adverse area?	seismic	Y⊠ N□	U□ N/A□		
7.	interact	ions ass e equipn	ociated with ho	usekeepir	tentially adverse ng practices, stor llations (e.g., sca	age of	Y⊠ N□	U□ N/A□		

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				Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC	(a) AWC-1017	<u> </u>		
Location: Bldg. AB Floo	or El. <u>070</u>	Room, Area 61	112	
Have you looked for and for adversely affect the safety f				Y⊠ N□ U□
Comments (Additional pages may	be added as ned	cessary)		
	184	mhle	-g	
Evaluated by: <u>John Dunkelberg</u>			U	Date: 10/6/2012
· ·	4	t Carlo	20	
Jose' Cardona	/			10/6/2012

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Area Walk-By Checklist (AWC) <u>AWC-1020</u>	Status: Y⊠ N□ U□
Location: Bldg. D Tunnel Floor El. 070 Room, Area 20D1	
SWEL Components: SWEL1-020	
Instructions for Completing Checklist  This checklist may be used to document the results of the Area Walk-By near or space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other controls.	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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 travs appear to be inside acceptable limits)?	Y⊠ N□ U□ N/A□

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Area \	Walk-	Ву	Checklist (	AWC)	AWC-1020	_		Status:	Y⊠ N□ U□
Location	on: Blo	dg.	D Tunnel	Floor El.	070	Room, Area	20D1		
4.	Does spatia and li	ıl int	teractions wit	e area is fr h other eq	ee of potenti uipment in th	ally adverse s le area (e.g., o	eismic ceiling tiles	Y⊠ N□	U N/A
5.						ally adverse s y in the area?		Y⊠ N□	U N/A
6.			opear that the			ally adverse s a?	eismic	Y⊠ N□	U N/A
7.	intera	ctio	ns associated equipment, ai	d with hous	sekeeping pr	ally adverse s actices, storag ons (e.g., scaff	ge of	Y⊠ N□	U N/A

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Area Walk-By Checklist (AWC) <u>AWC-1020</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>D Tunnel</u> Floor El. <u>070</u> Room, Area <u>20D1</u>	_
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: <u>10-10-2012</u>
David Bassi	10-10-2012

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Area Walk-By Checklist (AWC) <u>AWC-1020</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>D Tunnel</u> Floor El. <u>070</u>	Room, Area 20D1
SWEL Components: SWEL1-020	
Photographs	
Mata	Mata
Note:	Note:

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Avec Malk Dy Checklist (AMC) AMC 4022	Status: Y⊠ N□ U□									
Area Walk-By Checklist (AWC) <u>AWC-1023</u>										
Location: Bldg. DG Floor El. 098 Room, Area <sup>1</sup> 1104										
SWEL Components: SWEL1-023, SWEL1-031										
Instructions for Completing Checklist										
This checklist may be used to document the results of the Area Walk-By no space below each of the following questions may be used to record the results and the Additional space is provided at the end of this checklist for documenting of	sults of judgments and findings.									
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□									
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 advers seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Y⊠ N□ U□ N/A□ se									

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Area \	<i>N</i> alk-By	/ Checklist (	(AWC)	AWC-1023	_		Status:	Y⊠ N□ U□	]
Locatio	n: Bldg.	DG	Floor El.	098	Room, Area	1104			
4.		nteractions wit			ally adverse so ne area (e.g., c		Y⊠ N□ U	J N/A	
5.					ally adverse so y in the area?	eismic	Y⊠ N□ U	J□ N/A□	
6.		appear that th			ally adverse so a?	eismic	Y⊠ N□ U	J□ N/A□	
7.	interaction	ons associate equipment, a	d with hous	sekeeping pr	ally adverse so ractices, storaç ons (e.g., scaff	ge of	Y⊠ N□ U	J□ N/A□	

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1023</u>	
Location: Bldg. DG Floor El. 098 Room, Area 1104	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
A Car	
Evaluated by: <u>Jason Halsey</u>	Date: 10/5/2012
Brandon Nissing	10/5/2012

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	Status: Y⊠ N□ U□									
Area Walk-By Checklist (AWC) <u>AWC-1024</u>										
Location: Bldg. F Tunnel Floor El. 067 Room, Area 5000										
SWEL Components: SWEL1-024										
Instructions for Completing Checklist										
This checklist may be used to document the results of the Area Walk-By near or space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other contains the contains tha	of judgments and findings.									
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□									
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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Area \	Wall	k-Bv	Checklist (A	AWC)	AWC-1024			Status:	Y⊠ N□	U
			F Tunnel			Room, Area	5000			
4.	spa		teractions with			ally adverse s ne area (e.g., o		Y⊠ N□	U N/A	
5.						ally adverse s y in the area?		Y⊠ N□	U□ N/A□	
6.			opear that the			ally adverse s a?	eismic	Y⊠ N□	U□ N/A□	
7.	inte port	ractio	ns associated equipment, ar	I with hous	sekeeping pr	ally adverse s actices, stora ons (e.g., scaff	ge of	Y⊠ N□	U□ N/A□	

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Area Walk-By Checklist (AWC)AWC-1024_	Status: Y⊠ N□ U□
Location: Bldg. F Tunnel Floor El. 067 Room, Area 5000	
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  Add Adams	Date: <u>10/5/2012</u>
Jose` Cardona	10/5/2012

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Area Walk-By Checklist (AWC)AWC-1027_	Status: Y⊠ N□ U□
Location: Bldg. DG Floor El. 098 Room, Area <sup>1</sup> 1104	
SWEL Components: SWEL1-027	
Instructions for Completing Checklist  This checklist may be used to document the results of the Area Walk-By no space below each of the following questions may be used to record the results of the Area Walk-By no space below each of the following questions may be used to record the results of the Area Walk-By no space below each of the following questions may be used to record the results of the Area Walk-By no space below each of the following questions may be used to record the results of the Area Walk-By no space below each of the following questions may be used to record the results of the Area Walk-By no space below each of the following questions may be used to record the results of the Area Walk-By no space below each of the following questions may be used to record the results of the Area Walk-By no space below each of the following questions may be used to record the results of the Area Walk-By no space below each of the following questions may be used to record the results of the Area Walk-By no space below each of the following questions may be used to record the results of the Area Walk-By no space below each of the following questions may be used to record the results of the Area Walk-By no space below each of th	sults of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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 advers seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Y⊠ N□ U□ N/A□ se

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Area '	Wa	lk-By	Checklist (A	AWC)	AWC-1027	_		Status: `	Y⊠ N□ U	J
Location	on:	Bldg.	DG	Floor El.	098	Room, Area	1104			
4.	spa		teractions witl			ally adverse so ne area (e.g., c		Y⊠ N□ U	J□ N/A□	
5.						ally adverse soy in the area?	eismic	Y⊠ N□ U	J□ N/A□	
6.			ppear that the			ally adverse s	eismic	Y⊠ N□ U	J□ N/A□	
7.	inte poi	eractio	ns associated equipment, ar	d with hous	sekeeping pr	ally adverse s actices, storaç ns (e.g., scaff	ge of	Y⊠ N□ U	J□ N/A□	

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1027</u>	
Location: Bldg. DG Floor El. 098 Room, Area 1104	1
<ol> <li>Have you looked for and found no other seismic conditions that of adversely affect the safety functions of the equipment in the area</li> </ol>	
Comments (Additional pages may be added as necessary)	
None	
Harris	
Evaluated by: <u>Jason Halsey</u>	Date: <u>10-5-2012</u>
Brandon Nissing	10-5-2012

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Area Walk-By Checklist (AWC) <u>AWC-1028</u>	Status: Y⊠ N□ U□
Location: Bldg. CB Floor El. 115 Room, Area <sup>1</sup> 1207	
SWEL Components: SWEL1-028	
Instructions for Completing Checklist  This checklist may be used to document the results of the Area Walk-By near on space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other co	f judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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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Area '	Wa	lk-By	Checklist	(AWC)	AWC-1028	_		Status:	Y⊠ N□	U
Location	on:	Bldg.	СВ	Floor El.	115	Room, Area	1207			
4.	spa		teractions w			ally adverse so ne area (e.g., c		Y⊠ N□ I	U□ N/A□	
5.						ally adverse sory in the area?	eismic	Y⊠ N□ I	U□ N/A□	
6.					ree of potenti re in the area	ally adverse so a?	eismic	Y⊠ N□ I	U□ N/A□	
7.	into po	eractio	ns associat equipment,	ed with hou	sekeeping pi	ally adverse so ractices, storaç ons (e.g., scaff	ge of	Y⊠ N□ I	U□ N/A□	

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1028</u>	
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?	U □N ⊠Y
<u>Comments</u> (Additional pages may be added as necessary)	
None	
2	
Hally	
Evaluated by: <u>Jason Halsey</u>	Date: 10-5-2012
Brandon Nissing	10-5-2012

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Area \	Walk-By Checklist	(AWC) <u>AWC-10</u>	29_	Status: Y⊠ N□ U□
Locatio	on: Bldg. <u>CB</u>	Floor El. <u>116</u>	Room, Area <sup>1</sup> N/A	
SWEL	. Components: <u>SW</u>	/EL1-029, SWEL1-	.030	
This ch	below each of the foll	to document the resu owing questions may		r one or more SWEL items. The ts of judgments and findings. r comments.
1.	Does anchorage of e potentially adverse s opening cabinets)?		appear to be free of visible without necessarily	Y⊠ N□ U□ N/A□
2.	Does anchorage of e significant degraded		appear to be free of	Y⊠ N□ U□ N/A□
3.	raceways and HVAC seismic conditions (e	ducting appear to be e.g., condition of supp	or, do the cable/conduit e free of potentially adverse ports is adequate and fill de acceptable limits)?	Y⊠ N□ U□ N/A□

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Area \	Walk-By	/ Checklist	(AWC)	AWC-1029	_		Status:	Y⊠ N□ U	
Locatio	n: Bldg.	CB	_ Floor El.	116	Room, Area	N/A			
4.		nteractions wi			ally adverse s ne area (e.g., o		Y⊠ N□	U N/A	
5.					ally adverse s by in the area?		Y⊠ N□	U□ N/A□	
6.		appear that th ons that could			ially adverse s a?	eismic	Y⊠ N□	U□ N/A□	
7.	interacti	ons associate equipment, a	ed with hous	sekeeping pi	ially adverse s ractices, stora ons (e.g., scafi	ge of	Y⊠ N□	U□ N/A□	

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1029</u>	
Location: Bldg. <u>CB</u> Floor El. <u>116</u> Room, Area <u>N/A</u>	
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	
Halay	
Evaluated by: Jason Halsey	_ Date: <u>10-5-2012</u>
Brandon Nissing	10-5-2012

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Area Walk-By Checklist (AWC) <u>AWC-1036</u>	Status: Y⊠ N□ U□
Location: Bldg. CB Floor El. 070 Room, Area <sup>1</sup> 6112	
SWEL Components: SWEL1-036	
Instructions for Completing Checklist This checklist may be used to document the results of the Area Walk-By near or	no or more SWEL items. The
space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other of	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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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Area \	Wal	k-By	Checklist (	AWC)	AWC-1036			Status: Y⊠ N□ U□	
Location	on:	Bldg.	СВ	Floor El.	070	Room, Area	6112		
4.	spa		teractions wit			ally adverse so ne area (e.g., c		Y⊠ N□ U□ N/A□	
5.						ally adverse s y in the area?	eismic	Y⊠ N□ U□ N/A□	
6.			ppear that the			ally adverse s	eismic	Y⊠ N□ U□ N/A□	
7.	inte por	ractio	ns associated equipment, a	d with hous	sekeeping pr	ally adverse s actices, storaç ons (e.g., scaff	ge of	Y⊠ N□ U□ N/A□	

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Area Walk By Chacklist (AWC) AWC 1036	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1036</u>	
Location: Bldg. <u>CB</u> Floor El. <u>070</u> Room, Area <u>6112</u>	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	d Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: 10/8/2012
Lacy	
Jason Halsey	10/8/2012

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Area Walk-By Checklist (AWC)AWC-1037_	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 070 Room, Area <sup>1</sup> 6005	_
SWEL Components: SWEL1-037, SWEL1-035, SWEL1-032. SWEL1	1-034
Instructions for Completing Checklist  This checklist may be used to document the results of the Area Walk-By near space below each of the following questions may be used to record the result: Additional space is provided at the end of this checklist for documenting other	s of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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 travs appear to be inside acceptable limits)?	Y⊠ N□ U□ N/A□

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Area \	Nalk-B <sub>i</sub>	y Checkl	ist (AWC)	AWC-1037	_		Status:	Y⊠ N□	U
Locatio	n: Bldg	. <u>AB</u>	Floor El.	070	Room, Area	6005			
4.		nteraction	at the area is fr s with other eq				Y⊠ N□	U N/A	
5.			at the area is fr could cause floo				Y⊠ N□	U□ N/A□	
6.			at the area is fr could cause a fi			eismic	Y⊠ N□	U□ N/A□	
7.	interacti	ons asso	at the area is fr ciated with hou nt, and tempor	sekeeping pi	ractices, stora	ge of	Y⊠ N□	U N/A	

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	Status: Y⊠ N⊡ U⊡
Area Walk-By Checklist (AWC) <u>AWC-1037</u>	
Location: Bldg. AB Floor El. 070 Room, Area 6005	
Have you looked for and found no other seismic conditions that c adversely affect the safety functions of the equipment in the area See Comments	
Comments (Additional pages may be added as necessary)	
General house keeping issue: small container with what appears Ref. WR-00288442	to be oil (28 oz.)
Walk-by area is elevation 70 ft of the RCIC room, Aux Bldg.	
Matt Keeney  Evaluated by: M. Keeney	Date: 10/8/12
Adag	
J. Halsey	10/8/12

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Area Walk-By Checklist (AWC)AWC-1037_	J
Location: Bldg. AB Floor El. 070 Room, Area 6005	
SWEL Components: SWEL1-037	
Photographs	
Note: Note:	

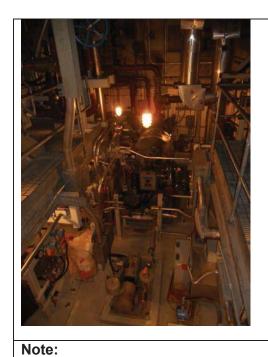
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Area Walk-By Checklist (AWC) <u>AWC-1037</u>	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 070	Room, Area 6005
SWEL Components: SWEL1-037	
AUTIE	
Note:	Note:

Area Walk-By Checklist (A	AWC) <u>AWC-1037</u>	-		Status:	Y⊠ N∐ I	UL
Location: Bldg. AB	Floor El. 070	Room, Area	6005			
SWEL Components: SWE	L1-037					_







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Area Walk-By Checklist (AWC) <u>AWC-1043</u>	Status: Y⊠ N□ U□
Location: Bldg. DG Floor El. 098 Room, Area <sup>1</sup> 1106	
SWEL Components: <u>SWEL1-043, SWEL1-038, SWEL1-039, SWEL1-043, SWEL1-044</u>	040, SWEL1-041, SWEL1-
Instructions for Completing Checklist  This checklist may be used to document the results of the Area Walk-By near or space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other controls.	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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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Area \	Walk-B	y Checl	klist (AWC)	AWC-1043	_		Status:	Y⊠ N□ U□
Location	on: Bldg	. DG	Floor El.	098	Room, Area	1106		
4.		nteractio	hat the area is frons with other eq				Y⊠ N□	U N/A
5.			hat the area is fr could cause floo			eismic	Y⊠ N□	U N/A
6.			hat the area is fr could cause a fi			eismic	Y⊠ N□	U□ N/A□
7.	interact	ions asse e equipm	hat the area is fr ociated with hous ent, and tempor	sekeeping pr	actices, storaç	ge of	Y⊠ N□	U□ N/A□

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Area Walk-By Checklist (AWC)AWC-1043_	Status: Y⊠ N□ U□
· · · · · · · · · · · · · · · · · · ·	
Location: Bldg. DG Floor El. 098 Room, Area	1106
Have you looked for and found no other seismic conditions adversely affect the safety functions of the equipment in the	
<u>Comments</u> (Additional pages may be added as necessary)	
Threaded fire protection piping connections used but all are	e adequately restrained.
Matt Keeney  Evaluated by: M. Keeney	Date: 10-2-12
J. Halsey	10-2-12

Status: Y⊠ N□ U□

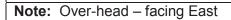
	Area Walk-B	y Checklist	(AWC)	AWC-1043
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Location: Bldg. DG Floor El. 098 Room, Area 1106

SWEL Components: SWEL1-043

## **Photographs**







**Note:** Over-head – facing west

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Area Walk-By Checklist (AWC)AWC-1046_	Status: Y⊠ N□ U□
Location: Bldg. DG Floor El. 098 Room, Area <sup>1</sup> 1107	
SWEL Components: SWEL1-046, SWEL1-083	
Instructions for Completing Checklist  This checklist may be used to document the results of the Area Walk-By near or space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other controls.	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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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Area \	Nalk-By	/ Checklist (	(AWC)	AWC-1046	_		Status:	Y⊠ N□ U□	]
Locatio	n: Bldg.	DG	Floor El.	098	Room, Area	1107			_
4.		nteractions wi			ally adverse s ne area (e.g., o		Y⊠ N□ I	N/A□	
5.					ally adverse soy in the area?	eismic	Y⊠ N□ U	J□ N/A□	
6.		appear that th ons that could			ally adverse s	eismic	Y⊠ N□ U	J□ N/A□	
7.	interaction	ons associate equipment, a	d with hous	sekeeping pr	ally adverse s ractices, storaç ons (e.g., scaff	ge of	Y⊠ N□ U	J□ N/A□	

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Area Walk-By Checklist (AWC) <u>AWC-1046</u>	Status: Y⊠ N□ U□
Area Walk-by Checklist (AWC)AWC-1040_	
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	
LaCay	
Evaluated by: <u>Jason Halsey</u>	Date: 10-5-2012
Brandon Nissing	10-5-2012

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1048</u>	
Location: Bldg. AB Floor El. 141 Room, Area¹ 6302	
SWEL Components: <u>SWEL1-048</u>	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near of space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other of the control of the co	of judgments and findings.
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</li> </ol>	Y⊠ N□ U□ N/A□
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.

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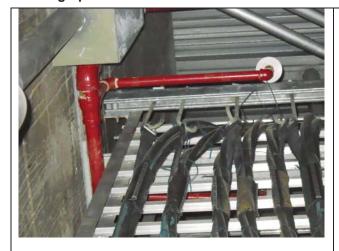
Area Wa	alk-By Check	list (AWC)	AWC-1048			Status: Y⊠ N□ U□
	Bldg. AB	Floor El.		Room, Area	6302	
4. Desp	oes it appear the patial interaction at lighting)?	nat the area is front on the sequent of the sequent	ee of potenti uipment in th	ally adverse so	eismic	Y⊠ N□ U□ N/A□
		nat the area is fro			eismic	Y⊠ N□ U□ N/A□
		nat the area is frocould cause a fi			eismic	Y⊠ N□ U□ N/A□
in po st	teractions asso	nat the area is frociated with housent, and tempora	sekeeping pr	actices, storaç	ge of	Y⊠ N□ U□ N/A□

Area Walk-By Checklist (AWC) <u>AWC-1048</u>	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 141 Room, Area 6302	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?  See comments	Y□ N⊠ U□
<u>Comments</u> (Additional pages may be added as necessary)	
EHS-MCC2D – backside, directly behind cubicle 2D, lower right hand door (approx ½" sticking out); backside, directly behind cubicle 4A, door hinge recurrently secure with tight fit  1TL803B Vertical Cable tray – sprinkler head about 20' in overhead is very cable tray. Behind EHS-MCC2B, north end.  Above COP-H230 (EJS-SWG2B area), there is a length of rope in the over Ref. AWC-1112 for JPB-RAK3 for adjacent area  Ref. LB-18; CR-RBS-2012-06446	needs readjustment. Door is y close (almost touching)
Evaluated by: D. Bassi	Date: 10/12/12
J. Dunkelberg	10/12/12

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Area Walk-By Checklist	(AWC) <u>AWC-1048</u>	<u> </u>	Status: Y⊠ N□ U□			
Location: Bldg. AB	Floor El. <u>141</u>	Room, Area 6302				
SWEL Components: SWEL1-048						

## **Photographs**







Note:

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Area Walk-By Checklist	(AWC) <u>AWC-1048</u>	<u> </u>		Status:	Y⊠ N□ U□			
Location: Bldg. AB	Floor El. 141	_ Room, Area	6302					
SWEL Components: SWEL1-048								







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Area Walk-By Checklist (AWC)AWC-1049_	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 141 Room, Area 6306	_
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 of space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other of the control of the co	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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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Area \	Walk-E	By Ch	ecklist (AWC)	AWC-1049	_		Status:	Y⊠ N□ U□
Location	on: Bld	g. <u>AB</u>	Floor El.	141	Room, Area	6306		
4.		intera	ar that the area is for ctions with other ed? ?				Y⊠ N□	U N/A
5.			ar that the area is fo				Y⊠ N□	U N/A
6.			ar that the area is fi hat could cause a f			eismic	Y⊠ N□	U□ N/A□
7.	interac	tions a e equ	ar that the area is fo associated with hou ipment, and tempor	sekeeping pr	ractices, storaç	ge of	Y⊠ N□	U□ N/A□

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Area Walk-By Checklist (AWC)AWC-1049_	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 141 Room, Area 6306	_
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  Add Add Adams	Date: <u>10-5-2012</u>
Jose Cardona	10-5-2012

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Area Walk-By Checklist (AWC) <u>AWC-1055</u>	Status: Y⊠ N□ U□
Location: Bldg. SCT Floor El. 136 Room, Area <sup>1</sup> N/A	_
SWEL Components: SWEL1-055	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near of space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other of the control of the co	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area '	Wa	lk-By	Checklist	(AWC)	AWC-1055	_		Status	s: Y⊠ N□	] U[
Location	on:	Bldg.	SCT	_ Floor El.	136	Room, Area	N/A			
4.	spa		teractions w			ally adverse s ne area (e.g., o		Y⊠ N□	] U□ N/A[	
5.						ally adverse s y in the area?		Y⊠ N□	] U[] N/A[	
6.					ee of potenti re in the area	ally adverse s a?	eismic	Y⊠ N□	] U[] N/A[	
7.	into po	eractio	ns associate equipment, a	ed with hou	sekeeping pr	ally adverse s actices, storaç ons (e.g., scaff	ge of	Y⊠ N□	] U[] N/A[	

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1055</u>	
Location: Bldg. SCT Floor El. 136 Room, Are	rea <u>N/A</u>
Have you looked for and found no other seismic condition adversely affect the safety functions of the equipment in	
Comments (Additional pages may be added as necessary)  None	
Evaluated by: Jason Halsey	Date: 10-4-2012
Matt Keene	
Matt Keenev	10-4-2012

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	Status: Y⊠ N□ U□							
Area Walk-By Checklist (AWC) <u>AWC-1056</u>								
Location: Bldg. <u>CB</u> Floor El. <u>116</u> Room, Area¹ <u>N/A</u>								
SWEL Components: SWEL1-056	_							
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.								
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</li> </ol>	Y⊠ N□ U□ N/A□							
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.

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Area '	Wa	lk-By	Checklist	(AWC)	AWC-1056	_		Status:	Y⊠ N□	U
Locati	on:	Bldg.	СВ	_ Floor El.	116	Room, Area	N/A			
4.	spa	es it a atial in d lighti	teractions w	ne area is fr ith other eq	ee of potenti uipment in th	ally adverse so ne area (e.g., c	eismic eiling tiles	Y⊠ N□ U	J N/A	
5.						ally adverse se y in the area?	eismic	Y⊠ N□ l	J□ N/A□	
6.					ree of potenti re in the area	ally adverse se a?	∍ismic	Y⊠ N□ l	J□ N/A□	
7.	inte	eractio	ns associate equipment,	ed with hou	sekeeping pr	ally adverse so actices, storaç ons (e.g., scaff	ge of	Y⊠ N□ U	J□ N/A□	

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1056</u>	
Location: Bldg. <u>CB</u> Floor El. <u>116</u> Room, Area <u>N/A</u>	
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	
$\mathcal{A}_{\mathcal{O}}$	
Evaluated by: <u>Jason Halsey</u>	Date: <u>10/5/2012</u>
Brandon Nissing	10/5/2012

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Area Walk-By Checklist (AWC) <u>AWC-1057</u>	Status: Y⊠ N□ U□
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 space below each of the following questions may be an Additional space is provided at the end of this checklist	
Does anchorage of equipment in the area app potentially adverse seismic conditions (if visible opening cabinets)?	
Does anchorage of equipment in the area app significant degraded conditions?	pear to be free of Y⊠ N□ U□ N/A□
<ol> <li>Based on a visual inspection from the floor, do raceways and HVAC ducting appear to be free seismic conditions (e.g., condition of supports conditions of cable trays appear to be inside a</li> </ol>	e of potentially adverse is adequate and fill

 $<sup>^{1}</sup>$  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.

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Area	Wal	k-By	Checklist (A	AWC)	AWC-1057	_		Status:	Y⊠ N□	U
Locati	on: I	Bldg.	СВ	Floor El.	116	Room, Area	1214			
4.	spa		teractions witl			ally adverse so ne area (e.g., c		Y⊠ N□	U N/A	
5.						ally adverse so y in the area?	eismic	Y⊠ N□	U□ N/A□	
6.			opear that the			ally adverse se a?	eismic	Y⊠ N□	U□ N/A□	
7.	inte por	ractio	ns associated equipment, ar	d with hous	sekeeping pr	ally adverse se ractices, storag ons (e.g., scaff	ge of	Y⊠ N□	U□ N/A□	

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Area Walk-By Checklist (AWC) <u>AWC-1057</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>CB</u> Floor El. <u>116</u> Room, Area <u>1214</u>	
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Evaluated by: Jason Halsey	Date: 10/5/2012
Desire Marie Park	40/5/0040
Brandon Nissing	10/5/2012

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1062</u>	
Location: Bldg. CB Floor El. 098 Room, Area <sup>1</sup> 1117	
SWEL Components: SWEL1-062, SWEL1-052, SWEL1-053, SWEL1-062	61
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near one space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other co	judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area	Wal	k-By	Checklist (	AWC)	AWC-1062	_		Status:	Y⊠ N□	U
Locati	on:	Bldg.	СВ	Floor El.	098	Room, Area	1117			
4.	spa		teractions wit			ally adverse s le area (e.g., c		Y⊠ N□	U N/A	
5.						ally adverse s y in the area?	eismic	Y⊠ N□	U□ N/A□	
6.			ppear that the			ally adverse s a?	eismic	Y⊠ N□	U□ N/A□	
7.	inte por	eractio	ns associated equipment, ar	d with hous	sekeeping pr	ally adverse s actices, storaç ns (e.g., scaff	ge of	Y⊠ N□	U□ N/A□	

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				Status: Y⊠ N□ U□
Area Walk-By Checklist (AW	C) <u>AWC-1062</u>	_		
Location: Bldg. CB Flo	or El. <u>098</u>	Room, Area	1117	_
Have you looked for and for adversely affect the safety				Y⊠ N□ U□
<u>Comments</u> (Additional pages ma None	y be added as nec	essary)		
Evaluated by: <u>Jason Halsey</u>	Acc		>	Date: 10-4-2012
Matt Keenev	Patt X			10-4-2012

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1063</u>	
Location: Bldg. CB Floor El. 136 Room, Area 1 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 of space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other of the control of the co	of judgments and findings.
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</li> </ol>	Y□ N□ U□ N/A⊠
Main Control Panels closed, could not see anchorage.	
<ol> <li>Does anchorage of equipment in the area appear to be free of significant degraded conditions?</li> <li>Could not observe.</li> </ol>	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.

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Area V	Valk-By	Checklist	(AWC)	AWC-1063	_		Status: Y⊠ N□ U□
Locatio	n: Bldg.	СВ	_ Floor El.	136	Room, Area	1310	
	spatial in and light	teractions wi	th other eq	uipment in th	ally adverse se le area (e.g., c		Y⊠ N□ U□ N/A□
					ally adverse se y in the area?		Y⊠ N□ U□ N/A□
		ppear that th			ally adverse se a?	eismic	Y⊠ N□ U□ N/A□
	interaction portable shielding Temp I& on table. several contable.	ons associate equipment, a )? C workd table Several loos	ed with house and tempora es set up a se items – F cabinets no	sekeeping pr ary installation djacent to pa P&ID chart, so t attached to	ally adverse se actices, storag ons (e.g., scaff nels, with loos tick files on wh	ge of olding, lead se equipment neels,	Y□ N⊠ U□ N/A□

	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1063</u>	
Location: Bldg. CB Floor El. 136 Room, Area 1310	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
See Question 7; I&C Maintenance contacted  Area – Main Control Room, CB Elev. 136'	
See LB-04	
Evaluated by: John Dunkelberg	Date: <u>10-1-2012</u>
Laulone	
Jose` Cardona	10-1-12

Area Walk-By Checklist (AWC) <u>AWC-1063</u>	Status: Y⊠ N□ U□
Location: Bldg. CB Floor El. 136	Room, Area <u>1310</u>
SWEL Components: SWEL1-073	_
Photographs	
Note:	Note:

Area Walk-By Checklis	st (AWC) <u>AWC-10</u>	63_	Status: Y⊠ N□ U□
Location: Bldg CB	Floor FI 136	Room Area 1310	

SWEL Components: SWEL1-063







Area Walk-By Checklist (AWC)AWC-1	Status: Y⊠ N⊡ U⊡ 1063_					
Location: Bldg. CB Floor El. 136	Room, Area 1310					
SWEL Components: SWEL1-063						







Area Walk-By Checklist (	AWC) <u>AWC-1063</u>	_		Status:	Y⊠ N□	U
Location: Bldg. CB	Floor El. 136	Room, Area	1310			_
SWEL Components: SWE	L1-063					_







Note:			

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Area Walk-By Checklist	(AWC) <u>AWC-1063</u>	<u> </u>		Status:	Y⊠ N□ U□			
Location: Bldg. CB	_ Floor El. <u>136</u>	Room, Area	1310					
SWEL Components: SWEL1-063								







Status: Y⊠ N□ U□

Area Walk-By Checklist (AWC)	AWC-1063

Location: Bldg. CB Floor El. 136 Room, Area 1310

SWEL Components: SWEL1-063







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Area Walk-By Checklist (AWC) <u>AWC-1063</u>	Status: Y⊠ N□ U□
Location: Bldg. CB Floor El. 136	Room, Area 1310
SWEL Components: <u>SWEL1-063</u>	
Note:	Note:

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Area Walk-By Checklist (AWC) <u>AWC-1064</u>	Status: Y⊠ N□ U□
Location: Bldg. RB Floor El. 114 Room, Area <sup>1</sup> 7207	
SWEL Components: SWEL1-064, SWEL1-005, SWEL1-007, SWEL1 095	-091, SWEL1-093, SWEL1-
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area \	Nalk-By	/ Checklist	(AWC)	AWC-1064	_		Status:	Y⊠ N□ U	
Locatio	n: Bldg.	RB	_ Floor El.	114	Room, Area	7207			
4.		nteractions w			ally adverse s ne area (e.g., o		Y⊠ N□	U N/A	
5.					ally adverse s ly in the area?		Y⊠ N□	U□ N/A□	
6.		appear that th			ally adverse s a?	eismic	Y⊠ N□	U□ N/A□	
7.	interaction	ons associate equipment, a	ed with hous	sekeeping p	ally adverse s ractices, storaç ons (e.g., scaff	ge of	Y⊠ N□	U□ N/A□	

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Area Walk-By Checklist (AWC) <u>AWC-1064</u>	Status: Y⊠ N□ U□
Location: Bldg. RB Floor El. 114 Room, Area 7207	
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: <u>10-9-2012</u>
Lacy	
Jason Halsey	<u>10-9-12</u>

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Area Walk-By Checklist (AWC) <u>AWC-1064</u>	Status: Y⊠ N□ U□
Location: Bldg. RB Floor El. 114	Room, Area <u>7207</u>
SWEL Components: SWEL1-064	
Photographs	
Note:	Note:

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1066</u>	
Location: Bldg. CB Floor El. 070 Room, Area¹ 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 of space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other of the control of the co	of judgments and findings.
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area \	Nalk-By	/ Checkli	st (AWC)	AWC-1066	_		Status:	Y⊠ N□ U□
Locatio	n: Bldg	. <u>CB</u>	Floor El.	070	Room, Area	1011		
4.		nteractions			ally adverse s ne area (e.g., o		Y⊠ N□	U N/A
5.					ally adverse s y in the area?	eismic	Y⊠ N□	U□ N/A□
6.			t the area is fr ould cause a fi		ally adverse s a?	eismic	Y⊠ N□	U□ N/A□
7.	interacti	ons associ equipmen	ated with hous	sekeeping pr	ally adverse s ractices, storaç ons (e.g., scaff	ge of	Y⊠ N□	U□ N/A□

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Area Walk-By Checklist (AWC)AWC-1066_	Status: Y⊠ N□ U□
Location: Bldg. CB Floor El. 070 Room, Area 1011	
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: <u>10/1/2012</u>
A.S. Dalawari	10/1/2012

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1067</u>	
Location: Bldg. AB Floor El. 114 Room, Area 6201	
SWEL Components: SWEL1-067	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near of space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other of the control of the co	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area	Wa	lk-By	Checklist (A	AWC)	AWC-1067			Status: Y	′⊠ N□	U
Locati	on:	Bldg.	AB	Floor El.	114	Room, Area	6201			
4.	sp	oes it a atial in d lighti	teractions witl	e area is fr h other eq	ee of potention in the second	ally adverse se ne area (e.g., c	eiling tiles	Y⊠ N□ U	□ N/A□	
5.						ally adverse se y in the area?	eismic	Y⊠ N□ U	□ N/A□	
6.			ppear that the			ally adverse se a?	∍ismic	Y⊠ N□ U	□ N/A□	
7.	int po	eractio	ons associated equipment, ar	d with hous	sekeeping pr	ally adverse se actices, storaç ons (e.g., scaff	ge of	Y⊠ N□ U	□ N/A□	

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Area Wa	lk-By	Checklist	(AWC)	AWC-1067	_		Status: Y⊠ N□ U□
Location:	Bldg.	AB	_ Floor El.	114	Room, Area	<u>6201</u>	
					mic conditions juipment in the		Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)							
		ad ended ca allation	ble sitting o	on top of RC	P-TCA07 . TS	E tag attached	d, identifying it as part of a
Evaluated	by: <u><i>J.</i></u>	Halsey		20,			_ Date: 10/10/12
	<u>D.</u>	Bassi C	1	) ' (	5	·	<u>10/10/12</u>

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Area Walk-By Checklist (AWC) <u>AWC-1067</u>	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 114	Room, Area <u>6201</u>
SWEL Components: <u>SWEL1-067</u>	
Photographs	
Note:	Note:

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Area Walk-By Checklist (AWC) <u>AWC-1067</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>AB</u> Floor El. <u>114</u>	Room, Area <u>6201</u>
SWEL Components: SWEL1-067	
Notes	Meter
Note:	Note:

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1069</u>	
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 or space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other control of the contro	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area	Wa	ılk-By	Checklist (A	AWC)	AWC-1069			Status	: Y N	] U[
Locati	on:	Bldg.	СВ	Floor El.	070	Room, Area	N/A			
4.	sp	oes it a atial in id lighti	ppear that the teractions with ng)?	area is fr n other eq	ee of potentia uipment in th	ally adverse se e area (e.g., c	eismic eiling tiles	Y⊠ N□	U□ N/A□	]
5.			ppear that the				eismic	Y⊠N□	U□ N/A□	]
6.			ppear that the				eismic	Y⊠ N□	U□ N/A□	]
7.	int po	eractio	ppear that the ons associated equipment, ar )?	with hous	sekeeping pra	actices, storaç	ge of	Y⊠ N□	U□ N/A□	]

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1069</u>	
Location: Bldg. CB Floor El. 070 Room, Area N/A	
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	
A.O.	
Evaluated by: Jason Halsey	_ Date: 10/8/2012
Mat Leoney	
Matt Keeney	10/8/2012

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Area Walk-By Checklist (AWC) <u>AWC-1069</u>	Status: Y⊠ N□ U□
Location: Bldg. CB Floor El. 070	Room, Area N/A
SWEL Components: SWEL1-069	
Photographs	
Note:	Note:

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1070</u>	
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 o space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other controls.	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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□

 $<sup>^{\</sup>scriptscriptstyle 1}$  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.

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		] U[
Y N	U N/A	
Y⊠ N□	U∏ N/A	
Y⊠ N□	U□ N/A	
Y⊠ N□	U∏ N/A	
Y	/⊠ N□	/□ N⊠ U□ N/A[ /⊠ N□ U□ N/A[ /⊠ N□ U□ N/A[

Aroa V	Nalk-	Rv	Chacklist	(AWC)	AWC-1070			Status: Y⊠ N□ U□
Locatio				Floor El.		Room, Area	1200	
8.	Have	you	looked for	and found n	o other seis	mic conditions quipment in the	that could	Y⊠ N□ U□
Comm	<u>ents</u> (	Add	ditional page	es may be a	dded as nec	essary)		
	See C	4.						
		BSI	D-2012-0709		n written to a prrect the cor		idition. WR-2	290719, 290720,290721 and
Evalua	ted by	: <u>Ja</u>	son Halsey	Y	40			_ Date: <u>10-2-2012</u>
			/	Mai	# Ke	eney		•
		Ma	att Keenev		-			10-2-2012

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Area Walk-By Checklist (AWC) <u>AWC-1070</u>	Status: Y⊠ N□ U□
Location: Bldg. CB Floor El. 115 Room, Area	1200
SWEL Components: SWEL1-070	
Photographs	
Note: Open S hook on hanging overhead lighting  Note:	

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Area Walk-By Checklist (AWC) <u>AWC-1072</u>	Status: Y⊠ N□ U□
Location: Bldg. CB Floor El. 116	Room, Area <sup>1</sup> 1200
SWEL Components: SWEL1-072, SWEL1-074	<u> </u>
Instructions for Completing Checklist	
This checklist may be used to document the results of space below each of the following questions may be Additional space is provided at the end of this checklist.	
Does anchorage of equipment in the area approtentially adverse seismic conditions (if visib opening cabinets)?	
Does anchorage of equipment in the area appreciations significant degraded conditions?	pear to be free of Y⊠ N□ U□ N/A□
<ol> <li>Based on a visual inspection from the floor, do raceways and HVAC ducting appear to be fre seismic conditions (e.g., condition of supports conditions of cable trays appear to be inside a</li> </ol>	e of potentially adverse s is adequate and fill

 $<sup>^{1}</sup>$  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.

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Area \	Walk-B <sub>i</sub>	y Check	list (AWC)	AWC-1072	_		Status:	Y⊠ N□ U□
Location	on: Bldg	. <u>CB</u>	Floor El.	116	Room, Area	1200		
4.		nteractio	at the area is fr ns with other eq				Y⊠ N□	U N/A
5.			at the area is fr				Y⊠ N□	U N/A
6.			at the area is fr could cause a fi			eismic	Y⊠ N□	U□ N/A□
7.	interacti	ons asso equipme	nat the area is fr ciated with housent, and tempor	sekeeping pi	ractices, storaç	ge of	Y⊠ N□	U□ N/A□

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Area Walk-By Checklist (AWC)AWC-1072_	Status: Y⊠ N□ U□
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?	d Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
None	
Evaluated by: Jason Halsey  The Xeep each of the Second Se	Date: <u>10/2/2012</u>
Matt Keeney	10/2/2012

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Area Walk-By Checklist (AWC) <u>AWC-1075</u>	Status: Y⊠ N□ U□
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-
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other	s of judgments and findings.
1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area	Wall	k-By	Checklist (	AWC)	AWC-1075	<u>.</u>		Status:	Y⊠ N□	U
Locati	on: E	Bldg.	СВ	Floor El.	098	Room, Area	1124			
4.	spar and Stru	tial int	teractions witing)? ipe small inte	h other eq	uipment in th	ally adverse se e area (e.g., c alve and Strut	eiling tiles	Y□ N⊠	U N/A	
5.						ally adverse se y in the area?	eismic	Y⊠ N□	U□ N/A□	
6.					ee of potentiand in the area	ally adverse se 1?	eismic	Y⊠ N□	U□ N/A□	
7.	inte port	ractio	ns associate equipment, a	d with hous	sekeeping pr	ally adverse se actices, storag ns (e.g., scaff	ge of	Y⊠ N□	U□ N/A□	

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Area Walk-By Checklist (	AMC) AMC 107	=		Status: Y⊠ N□ U□
	-			
Location: Bldg. CB	Floor El. 098	_ Room, Area	1124	
8. Have you looked for a adversely affect the sa				Y⊠ N□ U□
Comments (Additional pages	s may be added as ne	cessary)		
For strut interference Ref. LB-02	Ref CR-RBS-2012-06	241.		
Evaluated by: <u>Amar Dalawari</u>	Al Ja	Mau'		Date: <u>10/1/2012</u>
	Matt X	eoney		
Matt Keeney	-			10/1/2012

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Area Walk-By Checklist (AWC) _	AWC-1075	Status: Y⊠ N□ U□
Location: Bldg. CB Floor E	El. <u>098</u> Room, Area	1124
SWEL Components: SWEL1-075	5	
Photographs		
Note:	1 3:45 PM	
	11010.	

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Area Walk-By Checklist (AWC) <u>AWC-1082</u>	Status: Y⊠ N□ U□
Location: Bldg. DG Floor El. 126 Room, Are	ea <sup>1</sup> <u>1305</u>
SWEL Components: <u>SWEL1-082</u> , <u>SWEL1-079</u> , <u>SWEL1-</u>	-080
Instructions for Completing Checklist  This checklist may be used to document the results of the Area space below each of the following questions may be used to reconditional space is provided at the end of this checklist for documents.	cord the results of judgments and findings.
1. Does anchorage of equipment in the area appear to be f potentially adverse seismic conditions (if visible without r opening cabinets)?	
Does anchorage of equipment in the area appear to be f significant degraded conditions?	ree of Y⊠ N□ U□ N/A□
<ol> <li>Based on a visual inspection from the floor, do the cable raceways and HVAC ducting appear to be free of potent seismic conditions (e.g., condition of supports is adequa conditions of cable trays appear to be inside acceptable</li> </ol>	ially adverse te and fill

 $<sup>^{1}</sup>$  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.

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Area \	Walk-B	y Check	list (AWC)	AWC-1082	_		Status:	Y⊠ N□ U□
Location	on: Bldg	j. <u>DG</u>	Floor El.	126	Room, Area	1305		
4.		interactio	nat the area is fr ns with other eq				Y⊠ N□	U N/A
5.	interact	ions that	nat the area is fr could cause floo zanine area.			eismic	Y⊠ N□	U□ N/A□
6.			nat the area is fr could cause a fi			eismic	Y⊠ N□	U□ N/A□
7.	interact	ions asso e equipm	nat the area is frociated with housent, and tempor	sekeeping p	ractices, storaç	ge of	Y⊠ N□	U□ N/A□

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				Status: Y⊠ N□ U□
Area Walk-By Checklist (AW	/C) <u>AWC-1082</u>	2		
Location: Bldg. DG Flo	oor El. <u>126</u>	Room, Area	1305	
Have you looked for and f adversely affect the safety		Y⊠ N□ U□		
<u>Comments</u> (Additional pages ma	ay be added as ne	cessary)		
None				
Evaluated by: <u>J. Dunkelberg</u>	) Prife	nh/be	J	Date: <u>10-2-12</u>
	):/	3	·	
D Bassi				10-2-12

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Area Walk-By Checklist (AWC)AWC-1084_	Status: Y⊠ N□ U□
Location: Bldg. <u>RB</u> Floor El. <u>162</u> Room, Area¹ <u>7408</u>	
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 space below each of the following questions may be used to record the results.	s of judgments and findings.
Additional space is provided at the end of this checklist for documenting other	comments.
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</li> </ol>	Y⊠ N□ U□ N/A□
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.

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Area \	Walk-E	Зу (	Check	list (AW	C)	AWC-1	1084	_					St	atus:	Y⊠	N	] U[
Location	on: Bld	g.	RB	Flo	or El.	162		Roon	n, Area	1	7408						
4.		linte	eraction	at the are								S	Υ⊠	N□	U	N/A	
5.				at the are							ismic		Υ⊠	N□	U	N/A	
6.				at the are					lverse s	se	ismic		Υ⊠	N□	U	N/A[	]
7.	interac	ctior le e	ns asso quipme	at the are ciated wit ent, and te	h hous	sekeepi	ing pr	actice	s, stora	age	e of	ad	Υ⊠	N□	U	N/A[	

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Area Walk-By Checklist (AV	VC) AWC-108	34		Status: Y⊠ N□ U□
	oor El. <u>162</u>	Room, Area	7408	
Have you looked for and adversely affect the safet				Y⊠ N□ U□
<u>Comments</u> (Additional pages ma	ay be added as n	ecessary)		
None				
7	natt x	eeney		
Evaluated by: <i>Matt Keeney</i>				_ Date: 10-3-2012
John Dunkelberg	J. P. W.	Lundo	/ og	10-3-2012

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Area Walk-By Checklist (AWC) <u>AWC-1085</u>	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 114 Room, Area <sup>1</sup> 6205	
SWEL Components: SWEL1-085	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near on space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other control of the contro	f judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area Walk-By Checklist (AWC)AWC-1085_	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 114 Room, A	Area <u>6205</u>
4. Does it appear that the area is free of potentially adve spatial interactions with other equipment in the area (e and lighting)? Scaffold material stored in area has potential interaction connected to conduit 1CX8188C1 on north wall of are	e.g., ceiling tiles
Does it appear that the area is free of potentially adve interactions that could cause flooding or spray in the a	
Does it appear that the area is free of potentially adve interactions that could cause a fire in the area?	rse seismic Y⊠ N⊡ U⊡ N/A⊡
7. Does it appear that the area is free of potentially adve interactions associated with housekeeping practices, sportable equipment, and temporary installations (e.g., shielding)? See Q4 above	storage of

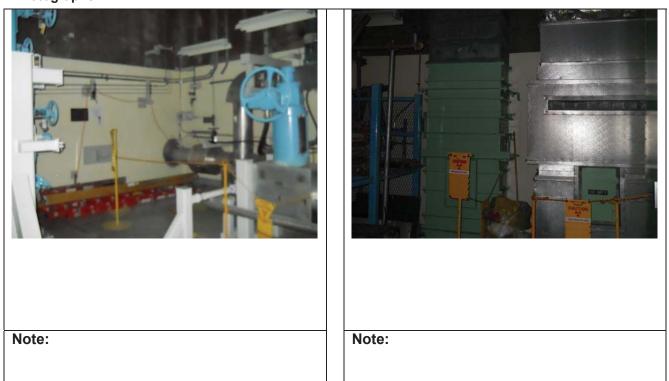
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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1085</u>	
Location: Bldg. AB Floor El. 114 Room, Area 6205	
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?  See Q4 above	Y□ N⊠ U□
<u>Comments</u> (Additional pages may be added as necessary)	
General area: UC6 room, scaffold storage rack in area, west side, equipside.  Recommendation: remove scaffolding material suspended from rack, 2 p (Revised 14:30 10/8/12) Maintenance replied to request, all suspended raction required	places.
Evaluated by: J. Dunkelberg	_ Date: 10/8/12
D. Bassi	10/8/12

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Area Walk-By Checklist (AWC) <u>AWC-1085</u>	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 114 Room, Area 6205	
SWEL Components: SWEL1-085	

## **Photographs**



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Area Walk-By Checklist (AWC)AWC-1085	Status:	Y⊠ N□ U□
Location: Bldg. AB Floor El. 114	Room, Area 6205	
SWEL Components: SWEL1-085		
Note: Scaffold storage close to conduit	Note:	

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Area Walk-By Checklist (AWC) <u>AWC-1086</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>AB</u> Floor El. <u>141</u> Room, Area <sup>1</sup>	6301
SWEL Components: SWEL1-086	
Instructions for Completing Checklist  This checklist may be used to decument the recults of the Area We	ally Dy poor one or more CMICL items. The
This checklist may be used to document the results of the Area Waspace below each of the following questions may be used to record Additional space is provided at the end of this checklist for documents.	d the results of judgments and findings.
Does anchorage of equipment in the area appear to be free potentially adverse seismic conditions (if visible without necopening cabinets)?	
Does anchorage of equipment in the area appear to be free significant degraded conditions?	e of Y⊠ N□ U□ N/A□
<ol> <li>Based on a visual inspection from the floor, do the cable/co raceways and HVAC ducting appear to be free of potentially seismic conditions (e.g., condition of supports is adequate a conditions of cable trays appear to be inside acceptable lim</li> </ol>	y adverse and fill

 $<sup>^{1}</sup>$  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.

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Area	Wa	ılk-By	Checklist (	AWC)	AWC-1086	_			Statu	s: Y⊠ N	1	U
Locati	on:	Bldg.	AB	Floor El.	141	Room, A	Area	6301				
4.	sp	pes it a patial in ad lighti	ppear that the teractions wit ing)?	e area is fr h other eq	ee of potentia uipment in th	ally adver e area (e	rse se	eismic eiling tiles	Y⊠ N[	U	A□	
5.			ppear that the					eismic	Y⊠ N□	] U[] N/	A□	
6.			ppear that the				rse se	eismic	Y⊠ N[	] U[] N/	A□	
7.	int pc	eractio	ppear that the ons associated equipment, a )?	d with hous	sekeeping pr	actices, s	storag	je of	Y⊠ N[	] U∏ N/	Α□	

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Area Walk-By Checklist (AWC) <u>AWC-1086</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>AB</u> Floor El. <u>141</u> Room, Area <u>6301</u>	1
Have you looked for and found no other seismic conditions that of adversely affect the safety functions of the equipment in the area.	
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: M. Keeney	Date: <u>10/8/12</u>
Lacy	
.l Halsev	10/8/12

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Area Walk-By Checklist (AWC) <u>AWC-1086</u>	Status: Y⊠ N□ U□					
Location: Bldg. AB Floor El. 141	Room, Area <u>6301</u>					
SWEL Components: SWEL1-086	SWEL Components: SWEL1-086					
Photographs						
Note:	Note:					

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Area Walk-By Checklist (AWC) <u>AWC-10</u>		Y⊠ N□ U□
Location: Bldg. <u>AB</u> Floor El. <u>141</u>	Room, Area <sup>1</sup> 6301	
SWEL Components: SWEL1-087		
Instructions for Completing Checklist	ulta af tha Anna Malla Division and an anna CV	VEL House The
This checklist may be used to document the resu space below each of the following questions may Additional space is provided at the end of this che	y be used to record the results of judgments a	
Does anchorage of equipment in the area potentially adverse seismic conditions (if vopening cabinets)?		J□ N/A□
Does anchorage of equipment in the area significant degraded conditions?	a appear to be free of Y⊠ N⊡ U	J□ N/A□
<ol> <li>Based on a visual inspection from the floor raceways and HVAC ducting appear to be seismic conditions (e.g., condition of supp conditions of cable trays appear to be insi</li> </ol>	e free of potentially adverse ports is adequate and fill	J□ 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.

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Area '	Walk	-By	Checklist (	AWC)	AWC-1087	_		Status: Y⊠ N□ U□
Location	on: Bl	ldg.	AB	Floor El.	141	Room, Area	6301	
4.		al int	teractions wit			ally adverse so ne area (e.g., c		Y⊠ N□ U□ N/A□
5.						ally adverse soy in the area?		Y⊠ N□ U□ N/A□
6.			opear that the			ally adverse s a?	eismic	Y⊠ N□ U□ N/A□
7.	intera	actio	ns associated equipment, a	d with hous	sekeeping pr	ally adverse s ractices, storaç ons (e.g., scaff	ge of	Y⊠ N□ U□ N/A□

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	Status: Y⊠ N⊡ U⊡
Area Walk-By Checklist (AWC) <u>AWC-1087</u>	
Location: Bldg. AB Floor El. 141 Room, Area 6301	_
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: <u>10/8/2012</u>
Brandon Nissing	10/8/2012

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Area Walk-By Checklist (AWC) <u>AWC-1087</u>	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 141	Room, Area <u>6301</u>
SWEL Components: SWEL1-087	
Photographs	
Note:	Note:

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Area Walk-By Checklist (AWC) <u>AWC-1088</u>	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 114 Room, Area 6207	_
SWEL Components: SWEL1-088	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other	s of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area	Wa	alk-By	Checklist (	AWC)	AWC-1088	_			Stati	us: Y⊠	N□	U
Locati	on:	Bldg.	AB	Floor El.	114	Room,	Area	6207				
4.	sp	pes it a patial in nd lighti	ppear that the teractions wit ing)?	e area is fr h other eq	ee of potentia uipment in th	ally adve e area (	erse se e.g., c	eismic eiling tiles	Y⊠ N	1 <u>U</u> U <u></u>	N/A	
5.			ppear that the					eismic	Y⊠ N∣	□ U □	N/A□	
6.			ppear that the				rse se	eismic	Y⊠ N∣	□ U □	N/A□	
7.	int pc	teractio	ppear that the ons associated equipment, and )?	d with hous	sekeeping pr	actices,	storag	je of		□ U □	N/A□	

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1088</u>	
Location: Bldg. <u>AB</u> Floor El. <u>114</u> Room, Area <u>6207</u>	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
AB Elev 114', west side of crescent area.  Coil of cable hanging from overhead conduit. Coil is held together by tip with tie wrap, conduit running N-S, approx 15' in overhead, near panel D seismic issue	
Evaluated by: <u>D. Bassi</u>	_ Date: <u>10/9/12</u>
1. Dunkelberg	10/9/12

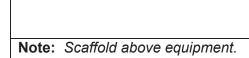
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Area Walk-By Checklist (AWC) <u>AWC-1088</u>	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 114	Room, Area 6207
SWEL Components: SWEL1-088	
Photographs	
Note:	Note:

Area Walk-By Checklist (AWC) <u>AWC-1088</u>	Status: Y⊠ N□ U□										
Location: Bldg. AB Floor El. 114	Room, Area <u>6207</u>										
SWEL Components: SWEL1-088											



Note:



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Area Walk-By Checklist (AWC) <u>AWC-1089</u>	Status: Y⊠ N□ U□
Location: Bldg. FB Floor El. 113 Room, Area 5205	_
SWEL Components: SWEL1-089	_
Instructions for Completing Checklist  This checklist may be used to decument the results of the Area Walk By page 6	one or more SWEL items. The
This checklist may be used to document the results of the Area Walk-By near of space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other of the control of the co	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area '	Walk-I	Зу (	Checkl	ist (A\	NC)	AWC-	1089	_				Sta	atus:	Y⊠	N	U
Location	on: Bld	g.	FB	F	loor El.	113		Room	n, Area	5205						
4.		linte								eismic ceiling til	les	Υ⊠	N□ (	N Dr	I/A 🗌	
5.			pear th									Υ⊠	N∏ (	л□ и	I/A□	
6.			pear that o						verse s	eismic		Y⊠	N□ (	J□ N	I/A <u></u>	
7.	interac	ctior le e		ciated v	vith hou	sekee	oing pr	actices	s, stora		lead	Υ⊠	N□ (	J□ N	I/A <u></u>	

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Avec Malla Du Chasklint (AMC) AMC 4000	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1089</u>	
Location: Bldg. <u>FB</u> Floor El. <u>113</u> Room, Area <u>5205</u>	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?  See comments	Y⊠ N□ U□
<u>Comments</u> (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: <u>10/9/2012</u>
J-13-	
David Bassi	10/9/2012

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Area Walk-By Checklist (AWC) <u>AWC-1089</u>	Status: Y⊠ N□ U□
Location: Bldg. FB Floor El. 113 Room,	Area <u>5205</u>
SWEL Components: SWEL1-089	
Photographs	
Note:	te:

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Area Walk-By Checklist (AWC) <u>AWC-1089</u>	Status: Y⊠ N□ U□
Location: Bldg. FB Floor El. 113	Room, Area <u>5205</u>
SWEL Components: SWEL1-089	
1-DKRT A  1-LAP-MINIEL  3	
Note:	Note:

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Area Walk-By Checklist (AWC) <u>AWC-1090</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>RB</u> Floor El. <u>114</u> Room, Area¹ <u>7200</u>	
SWEL Components: SWEL1-090, SWEL1-009, SWEL1-011, SW	/EL1-013
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By space below each of the following questions may be used to record the readditional space is provided at the end of this checklist for documenting of	esults of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessari opening cabinets)?	Y⊠ N□ U□ N/A□
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 adve seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?	Y⊠ N□ U□ N/A□ rse

 $<sup>^{1}</sup>$  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.

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Area \	Walk-I	Зу (	Check	list (AV	NC)	AWC	-1090	_					Sta	atus:	Y⊠	N	U
Location	on: Bld	g.	RB	F	loor El.	114		Rooi	m, Area	3	7200						
4.		linte	eractio	nat the a							ismic eiling tiles	6	Υ⊠	N□	U	N/A	]
5.				nat the a could ca							ismic		Υ⊠	N□	U□	N/A	]
6.				nat the a could ca					dverse s	se	ismic		Υ⊠	N□	U□	N/A	]
7.	interac	ctior le e	ns asso quipme	nat the a ociated v ent, and	vith hou	sekee	eping p	ractice	es, stora	age		ad	Υ⊠	N□	U	N/A	]

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Area Walk-By Checklist (AWC)	AWC-1090			Status: Y⊠ N□ U□
Location: Bldg. RB Floor E	El. <u>114</u> R	Room, Area	7200	
Have you looked for and found adversely affect the safety fun				Y⊠ N□ U□
Comments (Additional pages may be None	added as neces	sary)		
Evaluated by: Matt Keeney	# Ke	ney	<i>-</i>	Date: 10-9-2012
Jason Halsey		`		10-9-2012

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Area Walk-By Checklist (AWC) <u>AWC-1090</u>	Status: Y⊠ N□ U□
Location: Bldg. RB Floor El. 114	Room, Area <u>7200</u>
SWEL Components: SWEL1-090	
Photographs	
Note:	Note:

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Area Walk-By Checklist (AWC)AWC-1092_	Status: Y⊠ N□ U□
Location: Bldg. <u>RB</u> Floor El. <u>114</u> Room, Area¹ <u>7200, 7203</u>	_
SWEL Components: SWEL1-092, SWEL1-006, SWEL1-008, SWEL1-09	94, SWEL1-096
Instructions for Completing Checklist  This checklist may be used to document the results of the Area Walk-By near one space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other contains.	judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area '	Wal	lk-By	Checklist (A	AWC)	AWC-1092	_		Status: Y⊠ N□ U□	]
Locati	on:	Bldg.	RB	Floor El.	114	Room, Area	7200, 7203		_
4.	spa		teractions witl			ally adverse so ne area (e.g., c		Y⊠ N□ U□ N/A□	_
5.						ally adverse so y in the area?	eismic	Y⊠ N□ U□ N/A□	
6.			ppear that the			ally adverse so a?	eismic	Y⊠ N□ U□ N/A□	
7.	inte por	eractio	ens associated equipment, ar	with hous	sekeeping pr	ally adverse so actices, storag ons (e.g., scaff	ge of	Y⊠ N□ U□ N/A□	

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Area Walk-By Checklist (AWC)AWC-1092_	Status: Y⊠ N□ U□
Location: Bldg. RB Floor El. 114 Room, Area 7200, 7203	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
Matt Keeney	
Evaluated by: Matt Keeney	Date: <u>10/9/2012</u>
Halay	
Jason Halsey	10/9/2012

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Area Walk-By Checklist	(AWC) <u>AWC-1092</u>	<u>!</u>		Status: Y⊠ N□ U□
Location: Bldg. RB	Floor El. <u>114</u>	Room, Area	<u>7200, 7203</u>	
SWEL Components: <u>SW</u>	/EL1-092			
Photographs				
Note:		Note:		

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Area Walk-By Checklist (AWC)AWC-1106_	Status: Y⊠ N□ U□
Location: Bldg. <u>SCT</u> Floor El. <u>118</u> Room	n, Area¹ <u>0104</u>
SWEL Components: SWEL1-106, SWEL1-047, SWE	EL1-108
Instructions for Completing Checklist	
This checklist may be used to document the results of the A space below each of the following questions may be used to Additional space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of this checklist for our control of the space is provided at the end of the end of the space is provided at the end of the e	to record the results of judgments and findings.
Does anchorage of equipment in the area appear to potentially adverse seismic conditions (if visible with opening cabinets)?	
Does anchorage of equipment in the area appear to significant degraded conditions?	be free of YN NUNA
<ol> <li>Based on a visual inspection from the floor, do the c raceways and HVAC ducting appear to be free of po- seismic conditions (e.g., condition of supports is ade conditions of cable trays appear to be inside accepta</li> </ol>	otentially adverse equate and fill

 $<sup>^{1}</sup>$  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.

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Area \	Walk-	-By	Checklist (	AWC)	AWC-1106	<b>;</b>			Status	s: Y🖂	N□	U
			SCT	Floor El.			n, Area	0104				
4.		al int	opear that the teractions wit ng)?						Y⊠ N□	) U	N/A	
5.			opear that the						Y⊠ N□	] U[	N/A	
6.			opear that the				verse s	eismic	Y⊠ N□	] ∪□	N/A	
7.	intera	actio	opear that the ns associate equipment, a )?	d with hous	sekeeping p	ractices	s, storaç	ge of	Y⊠ N□	] U[	N/A□	

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1106</u>	
Location: Bldg. <u>SCT</u> Floor El. <u>118</u> Room, Area	0104
Have you looked for and found no other seismic conditions adversely affect the safety functions of the equipment in the safety functions.	
<u>Comments</u> (Additional pages may be added as necessary)	
None	
J. P. Munhold	/ leg
Evaluated by: <u>John Dunkelberg</u>	Date: 10-2-2012
Evaluated by: germ Burmensory	
Jan Car	
Jason Halsey	10-2-2012

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Area Walk-By Checklist (AWC)AWC-1107_	Status: Y⊠ N□ U□
Location: Bldg. <u>GT</u> Floor El. <u>067</u> Room, Area¹ <u>000</u>	00
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-E space below each of the following questions may be used to record the Additional space is provided at the end of this checklist for documenting	results of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necess opening cabinets)?	Y⊠ N□ U□ N/A□ arily
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/conduraceways and HVAC ducting appear to be free of potentially adseismic conditions (e.g., condition of supports is adequate and conditions of cable trays appear to be inside acceptable limits)?	verse fill

 $<sup>^{1}</sup>$  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.

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Area \	Walk	-Ву	Check	dist (AWC	;) <u>/</u>	AWC-110	7						St	atus:	Y⊠	N	] U[
Location	on: B	ldg.	GT	Floo	r El.	067	F	Room,	Area	00	000						
4.		al int	eractio	nat the area								es	Υ⊠	N□	U	N/A	
5.				nat the area							mic		Υ⊠	N□	U	N/A[	]
6.				nat the area					erse s	eisr	mic		Υ⊠	Ν□	U	N/A	]
7.	intera	actio	ns asso equipm	nat the area ociated with ent, and ter	hous	ekeeping	prac	ctices,	storag	ge c	of	ad	Υ⊠	N□	U	N/A[	]

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Area Walk-By Checklist (AWC	C) <u>AWC-1107</u>			Status: Y⊠ N□ U□
Location: Bldg. GT Floor	or El. <u>067</u>	Room, Area	0000	
Have you looked for and fo adversely affect the safety				Y⊠ N□ U□
See Comments				
<u>Comments</u> (Additional pages may	be added as ned	cessary)		
Carbon steel surfaces of pi seismic issue. Recommen				
Housekeeping issue.				
		11	/	
Evaluated by: <i>John Dunkelberg</i>	Jen	mhle	J	Date: 10-5-2012
Evaluated by . Goint Barmonony			A	_ Dutc. 10 0 2012
Company of the Compan	1	Coul	one	
Jose Cardona	/			10-5-2012

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Status: Y⊠ N⊡ t  Area Walk-By Checklist (AWC)AWC-1107_	U
Location: Bldg. <u>GT</u> Floor El. <u>067</u> Room, Area <u>0000</u>	
SWEL Components: SWEL1-107	-
Photographs	
Note: Note:	

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Area Walk-By Checklist (AWC) <u>AWC-1107</u>	Status: Y⊠ N□ U□
Location: Bldg. GT Floor El. 067	Room, Area <u>0000</u>
SWEL Components: <u>SWEL1-107</u>	
Note:	Note:

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Area Walk-By Checklist (AWC) <u>AWC-1112</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>AB</u> Floor El. <u>141</u>	Room, Area <sup>1</sup> 6302
SWEL Components: SWEL1-112, SWEL1-11	7
	of the Area Walk-By near one or more SWEL items. The used to record the results of judgments and findings.
Additional space is provided at the end of this check	
Does anchorage of equipment in the area ap potentially adverse seismic conditions (if visit opening cabinets)?	
Does anchorage of equipment in the area ap significant degraded conditions?	pear to be free of Y⊠ N□ U□ N/A□
3. Based on a visual inspection from the floor, or raceways and HVAC ducting appear to be freseismic conditions (e.g., condition of support conditions of cable trays appear to be inside	ee of potentially adverse s is adequate and fill

 $<sup>^{1}</sup>$  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.

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Area Walk-By Checklist (AWC) <u>AWC-1112</u>								Status: Y⊠ N□ U□			
Locatio	n: Bldg	. <u>AB</u>	Floor El.	141	Room, Area	6302					
4.		nteractio	hat the area is frons with other eq				Y⊠ N□	U N/A			
5.			hat the area is fr could cause floo				Y⊠ N□	U□ N/A□			
6.			hat the area is fr could cause a fi			eismic	Y⊠ N□	U□ N/A□			
7.	interacti	ons asse	hat the area is fr ociated with hou ent, and tempor	sekeeping pi	ractices, storaç	ge of	Y⊠ N□	U□ N/A□			

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1112</u>	
Location: Bldg. <u>AB</u> Floor El. <u>141</u> Room, Area <u>6302</u>	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
AB 141' East side, east of LSV compressor skid A HSC-PWRS1B: west side of unit, back panel is dented at bottom apprent HTS-PNL2N: In overhead tray support horizontal brace has portion of 10-12' above floor, North side of PNL2N. Not Seismic Issue	
Evaluated by: <u>J. Dunkelberg</u>	Date: <i>10/9/12</i>
D. Bassi	10/9/12

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Area Walk-By Checklist (AW	/C) <u>AWC-1112</u>			Status:	Y⊠ N□	U[
Location: Bldg. AB Flo	oor El. <u>141</u>	Room, Area	6302			
SWEL Components: SWEL1-	-112					



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Area Walk-By Checklist (AWC) <u>AWC-1112</u>	Status: Y⊠ N□ U□
Location: Bldg. AB Floor El. 141 F	doom, Area <u>6302</u>
SWEL Components: SWEL1-112	
577	
Note:	Note:

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Status: Y⊠ N□ U[ Area Walk-By Checklist (AWC) _ AWC-1113	
Location: Bldg. RB Floor El. 114 Room, Area 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.	3
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</li> </ol>	
<ol> <li>Does anchorage of equipment in the area appear to be free of significant degraded conditions?</li> </ol>	
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?  Y□ N□ U□ N/A□  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.

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Area Walk-By Checklist (AWC)AWC-1113_								Status: Y⊠ N□ U□		
Location	n: Bld	g. <u>/</u>	RB	Floor El.	114	Room, Area	7200			
4.		inte	ractions v			ally adverse s ne area (e.g., o		Y⊠ N□	U N/A	
5.						ally adverse s ly in the area?		Y⊠ N□	U□ N/A□	
6.					ree of potenti ire in the area	ally adverse s a?	eismic	Y⊠ N□	U N/A	
7.	interac	tion le e	s associa quipment,	ted with hou	sekeeping pr	ally adverse s ractices, storaç ons (e.g., scaff	ge of	Y⊠ N□	U N/A	

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Area Walk-By Checklist (AW	/C) <u>AWC-111</u>	13_		Status: Y⊠ N□ U□
Location: Bldg. RB Fl	oor El. <u>114</u>	Room, Area	7200	
8. Have you looked for and factorial adversely affect the safety				Y⊠ N□ U□
Comments (Additional pages ma	ay be added as n	ecessary)		
Evaluated by: <u>Matt Keeney</u>	Datt X	eoney		Date: 10-3-2012
John Dunkelbera	J P N	Lundle	/ eg	10-3-2012

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Area Walk-By Checklist (AWC)AWC-1114_	Status: Y⊠ N□ U□
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 space below each of the following questions may be used to record the result Additional space is provided at the end of this checklist for documenting other	s of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area Walk-By Checklist (AWC) <u>AWC-1114</u>								Status: Y⊠ N□ U□		
Location	on:	Bldg.	RB	Floor El.	095	Room, Area	7100			
4.	spa		teractions wi			ally adverse s le area (e.g., d		Y⊠ N□ U□ N/A□		
5.						ally adverse s y in the area?	eismic	Y⊠ N□ U□ N/A□		
6.			ppear that th			ally adverse s a?	eismic	Y⊠ N□ U□ N/A□		
7.	inte por	eractio	ens associate equipment, a	d with hous	sekeeping pr	ally adverse s actices, storaç ons (e.g., scaff	ge of	Y⊠ N□ U□ N/A□		

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	Status: Y⊠ N⊡ U⊡
Area Walk-By Checklist (AWC) <u>AWC-1114</u>	
Location: Bldg. RB Floor El. 095 Room, Area	7100
<ol> <li>Have you looked for and found no other seismic conditions adversely affect the safety functions of the equipment in the</li> </ol>	
<u>Comments</u> (Additional pages may be added as necessary)	
None	
2	
Hally .	
Evaluated by: Jason Halsey	Date: <u>10-10-2012</u>
1273	
David Bassi	<u>10-10-2012</u>

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Area Walk-By Checklist (AWC) <u>AWC-1114</u>	Status: Y⊠ N□ U□
Location: Bldg. RB Floor El. 095	Room, Area <u>7100</u>
SWEL Components: SWEL1-114	
Photographs	
Note:	Note:
NOTE.	Note.

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Area Walk-By Checklist (AWC)AWC-1115_	Status: Y⊠ N□ U□
Location: Bldg. RB Floor El. 095 Room, Area <sup>1</sup> 7100	
SWEL Components: SWEL1-115	
Instructions for Completing Checklist	0.451.11
This checklist may be used to document the results of the Area Walk-By near space below each of the following questions may be used to record the result Additional space is provided at the end of this checklist for documenting other	ts of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area '	Walk	(-By	Checklist (A	AWC)	AWC-1115	_		Status: Y⊠ N□ U□
Location	on: B	Bldg.	RB	Floor El.	095	Room, Area	7100	
4.	spat		teractions with			ally adverse so ne area (e.g., c		Y⊠ N□ U□ N/A□
5.						ally adverse s y in the area?		Y⊠ N□ U□ N/A□
6.			opear that the			ally adverse s a?	eismic	Y⊠ N□ U□ N/A□
7.	inter porta	actio	ns associated equipment, an	with hous	sekeeping pr	ally adverse s ractices, storaç ons (e.g., scaff	ge of	Y⊠ N□ U□ N/A□

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Area Walk-By Checklist (AW	/C) <u>AWC-111</u>	15_		Status: Y⊠ N□ U□
Location: Bldg. RB FI	oor El. <u>095</u>	Room, Area	7100	
8. Have you looked for and to adversely affect the safety				Y⊠ N□ U□
Comments (Additional pages ma	ay be added as n	ecessary)		
,	Datt X	eoney		
Evaluated by: Matt Keeney				_ Date: <u>10-3-2012</u>
John Dunkelbera	J. P. W.	Lundle	/ eg	10-3-2012

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Area Walk-By Checklist (AWC) <u>AWC-1116</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>AB</u> Floor El. <u>114</u>	Room, Area <sup>1</sup> 6306
SWEL Components: SWEL1-116, SWEL1-11	9
	of the Area Walk-By near one or more SWEL items. The used to record the results of judgments and findings. list for documenting other comments.
Does anchorage of equipment in the area ap potentially adverse seismic conditions (if visil opening cabinets)?	pear to be free of Y⊠ N□ U□ N/A□
Does anchorage of equipment in the area ap significant degraded conditions?	pear to be free of Y⊠ N□ U□ N/A□
3. Based on a visual inspection from the floor, or raceways and HVAC ducting appear to be freseismic conditions (e.g., condition of support conditions of cable trays appear to be inside	ee of potentially adverse s is adequate and fill

 $<sup>^{1}</sup>$  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.

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Area	Wa	alk-By	Checklist (	AWC)	AWC-1116			Status:	Y⊠ N□	U
Locati	on:	Bldg.	AB	Floor El.	114	Room, Area	6306			
4.	sp	pes it a patial in ad lighti	ppear that the teractions with ing)?	e area is fron	ee of potentia	ally adverse s e area (e.g.,	eismic ceiling tiles	Y⊠ N□	U□ N/A□	
5.			ppear that the					Y⊠ N□	U□ N/A□	
6.			ppear that the				eismic	Y⊠ N□	U□ N/A□	
7.	int pc	teractio	ppear that the ons associated equipment, ar )?	d with hous	sekeeping pr	actices, stora	ge of	Y⊠ N□	U□ N/A□	

Area Walk-By Checklist (AWC)AWC-116	Status: Y⊠ N□ U□
Location: Bldg. <u>AB</u> Floor El. <u>114</u> Room, Are	ea <u>6306</u>
Have you looked for and found no other seismic condition adversely affect the safety functions of the equipment in	
<u>Comments</u> (Additional pages may be added as necessary)	
AB Crescent area, west side, 141' Elev	
Evaluated by: <u>D. Bassi</u>	Date: 10/8/12
J. Dunkelberg	Date. 10/8/12

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Area Walk-By Checklist	t (AWC) <u>AWC-111</u>	16	Status: Y⊠ N□ U□					
Location: Bldg. AB	Floor El. <u>114</u>	Room, Area <u>6306</u>						
SWEL Components: SWEL1-116								
Photographs								







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Area Walk-By Checklist (AWC)AWC-1116_	Status: Y N U
	m Aron 6206
	m, Area <u>6306</u>
SWEL Components: SWEL1-116	
Note:	Note:

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Area Walk-By Checklist (AWC)AWC-1118_	Status: Y⊠ N□ U□
Location: Bldg. RB Floor El. 186 Room, Area 7500	
SWEL Components: SWEL1-118	
Instructions for Completing Checklist  This checklist may be used to document the results of the Area Walk-By near or space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other control	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area \	Walk-	Ву	Check	list (AWC)	AV	VC-1118	<u>.                                    </u>				Sta	tus:	Y⊠	N□	U
Location	on: Blo	dg.	RB	Floor	El. <u>1</u>	86	Roo	m, Area	<u>75</u>	500					
4.		al int	teraction	nat the area in swith other							Y⊠ N	N∏ U	J	I/A 🗌	
5.				nat the area i						mic	Y⊠ N	N∏ L	J N	J/A 🗌	
6.				nat the area i could cause				dverse s	seisr	mic	Y⊠ N	N∏ U	J N	J/A□	
7.	intera	ctio	ns asso equipme	nat the area i ciated with h ent, and tem	nouse	keeping p	ractice	es, stora	ige d	of	Y⊠ N	N□ r	J N	J/A□	

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1118</u>	
Location: Bldg. RB Floor El. 186 Roc	m, Area <u>7500</u>
Have you looked for and found no other seismic of adversely affect the safety functions of the equipment of the equipmen	
<u>Comments</u> (Additional pages may be added as necessar	у)
Refueling floor of the RB Elev. 186.	
LaCay	
Evaluated by: <u>J. Halsey</u>	Date: 10/10/12
1)17	<u></u>
D. Bassi	10/10/12

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Area Walk-By Checklist (AWC)	AWC-1118	Status: Y⊠ N□ U□							
Location: Bldg. RB Floor	El. <u>186</u> Room, Are	ea <u>7500</u>							
SWEL Components: SWEL1-11	SWEL Components: SWEL1-118								
Photographs									
Note:	Note:	:							

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Area Walk-By Checklist (AWC) <u>AWC-1120</u>	Status: Y⊠ N□ U□
Location: Bldg. RB Floor El. 141 Room, Area 9408	
SWEL Components: SWEL1-120	_
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near space below each of the following questions may be used to record the result Additional space is provided at the end of this checklist for documenting other spaces.	Its of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area \	Nalk-I	Зу (	Checklis	st (AWC) _	AWC-1120	_		Status:	Y⊠ N□ U□
Location	n: Bld	g.	RB	Floor El	. 141	Room, Area	9408		
4.		inte	eractions			ally adverse s ne area (e.g., o		Y⊠ N□	U N/A
5.						ally adverse s by in the area?		Y⊠ N□	U□ N/A□
6.					ree of potenti fire in the are	ially adverse s a?	eismic	Y⊠ N□	U N/A
7.	interac	tion le e	is associ quipmen	ated with hou	isekeeping p	ally adverse s ractices, stora ons (e.g., scaff	ge of	Y⊠ N□	U N/A

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Area Walk-By Checklist (AWC)AWC-1120_	Status: Y⊠ N□ U□
Location: Bldg. RB Floor El. 141 Room, Area 9408	
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	
Matt Keeney	
Evaluated by: Matt Keeney	_ Date: <u>10-3-2012</u>
John Dunkelberg	10-3-2012

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Area Walk-By Checklist (AWC) <u>AWC-2001</u>	Status: Y⊠ N□ U□							
Location: Bldg. AB Floor El. 070	Room, Area <sup>1</sup> 6008							
SWEL Components: SWEL2-001, SWEL2-004	1							
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.								
Does anchorage of equipment in the area appotentially adverse seismic conditions (if visit opening cabinets)?								
Does anchorage of equipment in the area apprint significant degraded conditions?	pear to be free of Y⊠ N□ U□ N/A□							
<ol> <li>Based on a visual inspection from the floor, d raceways and HVAC ducting appear to be fre seismic conditions (e.g., condition of supports conditions of cable trays appear to be inside</li> </ol>	ee of potentially adverse s is adequate and fill							

 $<sup>^{1}</sup>$  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.

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Area Wa	alk-By	Checklist (	(AWC)	AWC-2001	_			Stat	us: Y⊠	N□	U
Location:	Bldg.	AB	Floor El.	070	Room, A	Area	6008				
sp ar	oatial in nd lighti	opear that the teractions wit ng)? nas safety co	th other eq	uipment in th				Y⊠ N	<u></u> ∪□ I	N/A	
		opear that th ns that could					eismic	Y⊠ N	□ U□ I	N/A	
		opear that the				se se	eismic	Y⊠ N	□ U□ I	N/A	
in po	teractio	ppear that the ns associate equipment, a )?	d with hous	sekeeping pr	actices, s	torag	ge of	Y⊠ N	□ U□ I	N/A	

	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-2001</u>	
Location: Bldg. AB Floor El. 070 Room, Area 6008	
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

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Area Walk-By Checklist (AWC) <u>AWC-2003</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>FB</u> Floor El. <u>070</u> Room, Area <sup>1</sup> <u>5013</u>	
SWEL Components: SWEL2-003	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near on space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other continuous co	f judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area	Wa	lk-By	Checklist (	AWC)	AWC-2003	_		Status:	Y⊠ N□	U
Locati	on:	Bldg.	FB	Floor El.	<u>070</u>	Room, Area	<u>5013</u>			
4.	spa		teractions wit			ally adverse se le area (e.g., c		Y⊠ N□	U N/A	
5.						ally adverse se y in the area?	eismic	Y⊠ N□	U□ N/A□	
6.			ppear that the			ally adverse se a?	eismic	Y⊠ N□	U□ N/A□	
7.	inte por	eractio	ns associated equipment, ar	d with hous	sekeeping pr	ally adverse se actices, storag ns (e.g., scaff	ge of	Y⊠ N□	U□ N/A□	

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Avec Malle De Chapleliat (AMC) AMC 2002	Status: Y⊠ N⊡ U⊡
Area Walk-By Checklist (AWC) <u>AWC-2003</u>	
Location: Bldg. FB Floor El. 070 Room, Area 5013	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
None	
J-13-	
Evaluated by: <u>David Bassi</u>	Date: <u>10/9/2012</u>
John Dunkelberg	10/9/2012
John Dunkelberg	10/3/2012

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Area Walk-By Checklist (AWC)AWC-2003	Status: Y⊠ N□ U□
Location: Bldg. FB Floor El. 070	Room, Area <u>5013</u>
SWEL Components: SWEL2-003	
Photographs	
Note:	Note:

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Area Walk-By Checklist (AWC) <u>AWC-2005</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>AB</u> Floor El. <u>114</u> Room, Area¹ <u>6203</u>	
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 result: Additional space is provided at the end of this checklist for documenting other	s of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area	Wa	lk-By	Checklist (A	AWC)	AWC-2005				Status:	Y⊠ N□	U
Locati	on:	Bldg.	AB	Floor El.	114	Room,	Area	6203			
4.	spa and	atial in d lighti	ppear that the teractions with ng)? nments						Y⊠ N□	U N/A	
5.			ppear that the					eismic	Y⊠ N□	U□ N/A□	l
6.			ppear that the				erse se	eismic	Y⊠ N□	U□ N/A□	I
7.	inte poi shi	eraction rtable ( elding	ppear that the ons associated equipment, ar )? onments	I with hous	sekeeping pra	actices,	storag	ge of	Y⊠ N□	U N/A	l

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	_	<b>.</b>					Status: Y⊠ N□ U□
Area Walk	-Ву	Checklist (A	AWC)/	AWC-2005	-		
Location: B	ldg.	AB	Floor El.	114	Room, Area	6203	
adve	ersely				mic conditions juipment in the		Y□ N⊠ U□
Comments	_(Add	itional pages	may be a	dded as nec	essary)		
conn pote Obse cond	nected ntial s ervati luits r	d (bolted toge seismic intera on: At PW12 nearby touchi	ether). MC action is sid 3-04, hois	C2C has 3 s de to side. t in the overh	ections, MCC2	2D has 5 secting that extends	her (approx 1") but not ons. Both welded to sills, from 123' to 114' floor. Rigid chain
See	LB-1	7					
Evaluated b	y: <u>D.</u>	Bassi		) (Jun	3 - Me	 -	_ Date: <u>10/12/12</u>
	,	Dunkelhera	U			$\cup$	10/12/12

		Status:	Y igstyle M igstyl
Area Walk-By Checklist (AWC) _	AWC-2005		

Location: Bldg. AB Floor El. 114 Room, Area 6203

SWEL Components: SWEL2-005

## **Photographs**



Note:



Area Walk-By Checklist (AWC) <u>AWC-2005</u>	Status: Y⊠ N□ U□						
Location: Bldg. <u>AB</u> Floor El. <u>114</u> Room	, Area <u>6203</u>						
SWEL Components: SWEL2-005							







Status: Y⊠ N□ U□

Area Walk-By Checklist (AWC)	AWC-2005
------------------------------	----------

Location: Bldg. <u>AB</u> Floor El. <u>114</u> Room, Area <u>6203</u>

SWEL Components: SWEL2-005





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	Status: Y⊠ N⊡ U⊡
Area Walk-By Checklist (AWC) <u>AWC-2006</u>	
Location: Bldg. <u>CB</u> Floor El. <u>098</u> Room, Area <sup>1</sup> <u>1114</u>	
SWEL Components: SWEL2-006	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near on space below each of the following questions may be used to record the results o Additional space is provided at the end of this checklist for documenting other co	f judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area V	Walk-By	Checkli	st (AWC) _	AWC-20	<b>06</b> _		Status:	Y⊠ N□ U
Locatio	n: Bldg.	СВ	Floor E	I. <u>098</u>	Room, Area	1114		
		teractions			entially adverse s n the area (e.g., o		Y⊠ N□	U N/A
	SWG01E	are oper annot cre	and need t	o be closed	d EHS-MCC8B and the log the lo	ocation of the		
			HS-MCC8B is secure (n		in a tilted or out on its in a tilted or out on its in a tilted or out on its in a tilted or out of its in a tilted or out	of level		
					entially adverse s pray in the area?		Y⊠ N□	U N/A
	interaction Conduits the conduits	ns that co approxinuit does n	ould cause a nately 1" dia not have fire	fire in the a meter pene stop or sea	entially adverse s area? trating fire wall ap I. Located on CL y 11' above finish	ppears that "CA" about	Y⊠ N□	U N/A
	interactio	ns assoc equipmer	iated with ho	ousekeeping	entially adverse s g practices, storaç ations (e.g., scaff	ge of	Y⊠ N□	U N/A

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10/11/2012

Area \	Valk-Β <sub>∶</sub>	y Check	list (AWC)	AWC-20	006_		Status: Y⊠ N□ U□
Locatio	n: Bldg	. <u>CB</u>	Floor El.	098	Room, Area	1114	
8.					seismic conditions e equipment in the		Y□ N⊠ U□
	See cor	mments b	elow.				
Comm	<u>ents</u>						
	2. 3. 4. 5. 6. 7. 8. 9. 10.	Seal loos Missing s Fastener 3" condui ENB-SW Vent grills Loose the Inconsist Inconsist Loose LE viewed fr Groundin seismic is	se on 1CK003B seal on 1CC047 in not tight on I it "LB" in a verti G01B is missing appear to be a umb screw on E ent style of bolt ent use of wash om front of MC ig cable behind	M above 'B4 abov ENB-INV cal orient g a wash missing b ENS-SW0 head ush her on the se (1 of a C (condu ENB-INV	EHS-MCC14Bnote ENB-INV01Bnote ENB-INV01Bnote Incomply and Inc	not seismic issued seismic issued seismic issued to the right factor of the result of	sue astener r between door CB098-30 and ot seismic issue located above ENB-INV01B1 -not seismic issue seismic issue dCC14B, north most cubicle
Evaluated by: M. Keeney  Date: 10/11/2012							
⊏valua	ieu by: <u>/</u>	w. neerie)		2	mhle	7	_ Date: <u>10/11/2012</u>

J. Dunkelberg

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Area Walk-By Checklist (AWC) <u>AWC-2008</u>	Status: Y⊠ N□ U□
Location: Bldg. FB Floor El. 070 Room, Area <sup>1</sup> 5018	_
SWEL Components: SWEL2-008	_
Instructions for Completing Checklist	one or many OMEL House The
This checklist may be used to document the results of the Area Walk-By near space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other	s of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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.

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Area	Wal	k-By	Checklist (	AWC)	AWC-2008	_		Status:	Y⊠ N□	U
Locati	on:	Bldg.	FB	Floor El.	<u>070</u>	Room, Area	<u>5018</u>			
4.	spa		teractions witl			ally adverse se e area (e.g., c		Y⊠ N□	U N/A	
5.						ally adverse se y in the area?	eismic	Y⊠ N□	U□ N/A□	
6.			ppear that the			ally adverse se a?	eismic	Y⊠ N□	U□ N/A□	
7.	inte por	eractio	ns associated equipment, ar	d with hous	sekeeping pr	ally adverse se actices, storag ns (e.g., scaff	je of	Y⊠ N□	U□ N/A□	

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Area Walk-By Checklist (AWC) <u>AWC-2008</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>FB</u> Floor El. <u>070</u> Room, Area <u>5018</u>	
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?  Output  Description:  Output  Desc	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)  Area: FB 85' valve room (north room)	
Evaluated by: John Dunkelberg  David Bassi	Date: <u>10/9/2012</u>

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Area Walk-By Checklist (AWC) <u>AWC-2008</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>FB</u> Floor El. <u>070</u> Room, Area <u>5018</u>	8
SWEL Components: SWEL2-008	
Photographs	
Note: Note:	

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Area Walk-By Checklist (AWC) <u>AWC-2009</u>
Location: Bldg. FB Floor El. 070 Room, Area¹ 5021
SWEL Components: SWEL2-009
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.
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</li> </ol>
<ol> <li>Does anchorage of equipment in the area appear to be free of significant degraded conditions?</li> </ol>
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?  Y□ N□ U□ N/A□ 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.

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Area	Wal	k-By	Checklist (	AWC)	AWC-2009	_		Status:	Y⊠ N□	U
Locati	on:	Bldg.	FB	Floor El.	<u>070</u>	Room, Area	<u>5021</u>			
4.	spa		teractions witl			ally adverse se e area (e.g., c		Y⊠ N□	U N/A	
5.						ally adverse so y in the area?	eismic	Y⊠ N□	U□ N/A□	
6.			ppear that the			ally adverse se a?	eismic	Y⊠ N□	U□ N/A□	
7.	inte por	eractio	ns associated equipment, ar	d with hous	sekeeping pr	ally adverse se actices, storag ns (e.g., scaff	je of	Y⊠ N□	U□ N/A□	

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	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-2009</u>	
Location: Bldg. FB Floor El. 070 Room	, Area <u>5021</u>
Have you looked for and found no other seismic cor adversely affect the safety functions of the equipme	
See comments	
<u>Comments</u> (Additional pages may be added as necessary	ı
Hand lever of valve SFC-V356 (Temporary tag by Ginteraction	SU) is within ¾" of adjacent 4" pipe – Potential
Ref. LB-13 & CR-RBS-2012-06687	
/	//
J. P. Klund	berg
Evaluated by: <u>J. Dunkelberg</u>	Date: 10/9/12
1 70	· ·
D. Bassi	10/9/12

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Area Walk-By Checklist (AWC) <u>AWC-2009</u>	Status: Y N U
Location: Bldg. FB Floor El. 070 R	oom, Area <u>5021</u>
SWEL Components: SWEL2-009	
Photographs	
Note:	Note:

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Area Walk-By Checklist (AWC) <u>AWC-2012</u> Status: Y N U	
Location: Bldg. <u>FB</u> Floor El. <u>070</u> Room, Area¹ <u>5000</u>	
SWEL Components: SWEL2-012	
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.	
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</li> </ol>	
<ol> <li>Does anchorage of equipment in the area appear to be free of significant degraded conditions?</li> </ol>	
3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)?  Y□ N□ U□ N/A□ 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.

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Area '	Wa	lk-By	Checklist (	AWC)	AWC-2012	-		Status:	Y⊠ N□ U□
Location	on:	Bldg.	FB	Floor El.	070	Room, Area	5000		
4.	spa	es it a atial in d lighti	teractions wi	e area is fr th other eq	ee of potentia uipment in th	ally adverse se e area (e.g., c	eismic eiling tiles	Y⊠ N□	U□ N/A□
5.						ally adverse so y in the area?	eismic	Y⊠ N□	U□ N/A□
6.			ppear that th			ally adverse se 1?	eismic	Y⊠ N□	U□ N/A□
7.	into po	eractio	ens associate equipment, a	d with hous	sekeeping pr	ally adverse so actices, storaç ns (e.g., scaff	ge of	Y⊠ N□	U□ N/A□

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Area Walk-By Checklist (AWC)AWC-2012_	Status: Y⊠ N□ U□
Location: Bldg. FB Floor El. 070 Room, Area 5000	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary) FB 70' CRD pump room area	
Evaluated by: <u>David Bassi</u>	Date: <u>10/9/2012</u>
John Dunkelberg	10/9/2012

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Area Walk-By Checklist (AWC) <u>AWC-2012</u>	_	Status: Y N U
Location: Bldg. FB Floor El. 070	Room, Area 5000	
SWEL Components: SWEL2-012		
Photographs		
Note:	Note:	

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Area Walk-By Checklist (AWC) <u>AWC-2013</u> Status: Y⊠ N ∪ U	J□
Location: Bldg. <u>FB</u> Floor El. <u>095</u> Room, Area¹ <u>5100</u>	_
SWEL Components: SWEL2-013	
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.	те
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</li> </ol>	
<ol> <li>Does anchorage of equipment in the area appear to be free of significant degraded conditions?</li> </ol> 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.

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Area \	Walk-I	3у (	Check	dist (AV	VC)	AWC-2	2013	_					St	atus:	YΣ	N_	] U[
Location	on: Bld	g.	FB	F	loor El.	095		Room	n, Area	1 5	5100						
4.		l int	eractio	hat the a ns with c							smic iling tiles	5	Υ⊠	N□	U	N/A	
5.				hat the a could ca							smic		Υ⊠	N□	U	N/A[	
6.				hat the a could ca					verse s	sei	smic		Υ⊠	N□	U	N/A	
7.	interac	ctior le e	ns asso equipm	hat the a ociated w ent, and	vith hou	sekeep	ing pr	actices	s, stora	age		ad	Υ⊠	N□	U	N/A	

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Area Walk-By Checklist (AW	C) <u>AWC-2013</u>	_		Status: Y⊠ N□ U□
Location: Bldg. FB Flo	or El. <u>095</u>	Room, Area	<u>5100</u>	
Have you looked for and for adversely affect the safety				Y⊠ N□ U□
<u>Comments</u> (Additional pages ma	y be added as nec	essary)		
Evaluated by: <u>John Dunkelberg</u>	JEW	Loud Coul	Las las	_ Date: 1 <u>0-5-2012</u>
Jose Cardona	/			10-5-2012

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Area Walk-By Checklist (AWC) <u>AWC-2014</u>	Status: Y⊠ N□ U□
Location: Bldg. FB Floor El. 070	Room, Area <sup>1</sup> 5011
SWEL Components: SWEL2-014, SWEL2-015	5
	of the Area Walk-By near one or more SWEL items. The used to record the results of judgments and findings. list for documenting other comments.
Does anchorage of equipment in the area appotentially adverse seismic conditions (if visit opening cabinets)?	
Does anchorage of equipment in the area approximately significant degraded conditions?	pear to be free of Y⊠ N□ U□ N/A□
<ol> <li>Based on a visual inspection from the floor, d raceways and HVAC ducting appear to be fre seismic conditions (e.g., condition of supports conditions of cable trays appear to be inside a</li> </ol>	ee of potentially adverse s is adequate and fill

 $<sup>^{1}</sup>$  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.

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Area \	Walk-E	Ву (	Checklist (	AWC)	AWC-2014	_		Status: Y⊠	] N
Locatio	on: Bld	g.	FB	Floor El.	070	Room, Area	5011		
4.		inte	eractions wit			ially adverse s he area (e.g., o		Y⊠ N□ U□	N/A
5.	Does i	t ap	pear that the	e area is fr cause floo	ee of potent oding or spra	ially adverse s ay in the area?	eismic	Y⊠ N□ U□	N/A
6.			opear that the			ially adverse s a?	eismic	Y⊠ N□ U□	N/A
7.	interac	tior e e	ns associated quipment, a	d with hous	sekeeping p	ially adverse s ractices, storaç ons (e.g., scaff	ge of	Y⊠ N□ U□	N/A

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Area Walk-By Checklist (AW	C) <u>AWC-2014</u>	<u>-</u>		Status: Y⊠ N□ U□
Location: Bldg. FB Flo	or El. <u>070</u>	Room, Area	5011	
8. Have you looked for and for adversely affect the safety				Y N U
<u>Comments</u> (Additional pages ma	y be added as ned	cessary)		
Evaluated by: <u>John Dunkelberg</u>	JEW	t Coul	Las las	Date: <u>10-5-2012</u>
Jose Cardona	/			10-5-2012

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Area Walk-By Checklist (AWC)	AWC-2016_	Status: Y⊠ N□ U□
Location: Bldg. <u>AB</u> Floor El.	070 Room, Area <sup>1</sup> 6001	
SWEL Components: SWEL2-016, S	SWEL1-025, SWEL2-017	
Instructions for Completing Checklist This checklist may be used to document space below each of the following questi Additional space is provided at the end of	the results of the Area Walk-By no ons may be used to record the res	sults of judgments and findings.
Does anchorage of equipment in potentially adverse seismic condiopening cabinets)?	the area appear to be free of tions (if visible without necessarily	Y⊠ N□ U□ N/A□
Does anchorage of equipment in significant degraded conditions?	the area appear to be free of	Y⊠ N□ U□ N/A□
<ol> <li>Based on a visual inspection from raceways and HVAC ducting app seismic conditions (e.g., condition conditions of cable trays appear t</li> </ol>	ear to be free of potentially advers n of supports is adequate and fill	Y⊠ N□ U□ N/A□ se

 $<sup>^{1}</sup>$  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.

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Area \	Walk-By	Checklist (	AWC) A	NC-2016	_		Status: Y	′⊠ N□ U□
Location	n: Bldg.	AB	Floor El. <u>C</u>	70	Room, Area	6001		_
4.		nteractions wit			ally adverse so e area (e.g., c		Y⊠ N□ U	□ N/A□
5.					ally adverse soy in the area?	eismic	Y⊠ N□ U	□ N/A□
6.		appear that the			ally adverse so a?	eismic	Y⊠ N□ U	□ N/A□
7.	interaction	ons associated equipment, a	d with house	keeping pr	ally adverse s actices, storaç ns (e.g., scaff	ge of	Y⊠ N□ U	□ N/A□

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Area Walk By Chacklist (AWC) AWC	2016	S	tatus: Y⊠ N⊡ U⊡
Area Walk-By Checklist (AWC) AWC	<u>2016</u>		
Location: Bldg. AB Floor El. 070	Room, Area	6001	
Have you looked for and found no oth adversely affect the safety functions of the safety function			N□ U□
Comments (Additional pages may be added	as necessary)		
None			
Matt	Keeney		
Evaluated by: <u>Matt Keeney</u>		Date	e: <u>10/8/2012</u>
		*	
Brandon Nissing	16		<u>10/8/2012</u>

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Area Walk-By Checklist (AWC) <u>AWC-2016</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>AB</u> Floor El. <u>070</u> Roc	m, Area <u>6001</u>
SWEL Components: SWEL2-016	
Photographs	
Note:	Note:

# Attachment E Potentially Adverse Seismic Conditions

-IED CONDITION	CONCLUSION	KESOLUTION
d Nut Engagement for Tank Base Bolts on: Nuts on two (2) out of eight (8) 5/8" diameter bolts for anchorage of HVK-TK1A "Control	Condition does not meet the Licensing Basis.	CR-RBS-2012-06242 deter existing condition is accep
g Chilled Water Surge Tank 1A" base to the concrete pedestal are not fully engaged. Review es at least 90% of the threads on both the nuts are engaged with the anchor bolts.	Need full nut engagement on anchorbolt.	CR-RBS-2012-06230 CA-00 initiated to identify the be electronically link the info contained in calculation G and CR-RBS-2012-06242 t Worst case loading of 5,00 shear capacity is conserva calculated to be 5,988 lbs. the structural integrity of maintained during a seism
d Clearance between Pipe / Strut arance between the strut installed 10" above valve assembly [HVK-MOV20C] on line [HVK- 2-003] and the horizontal SAS pipeline SAS-750-563 (approximate elevation 109 ft) near valve 86 is 1/2". The required minimum distance between the safety related component and safety small bore piping of 1" is not met.	Condition does not meet the Licensing Basis.  Reduced clearance between pipe and pipe support does not meet piping specification requirements for clearance requirements between items.	CR-RBS-2012-06241 dete existing condition was pre evaluated in design calcul 7204 and found to be acc OPERABILITY EVALUATION support for ¾ inch line, ar ¾" line indicate that total deflection between the cobe less than 0.2 inches.  Therefore the distance of between these 2 componto be acceptable.

-IED CONDITION	CONCLUSION	KESULUTION
13-P693 anchorage drawing not available for verification chorage drawing and/or calculation showing the analysis of the mounting pattern at the age location could not be located.	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.	CR-RBS-2012-06238 deterdrawings 0242.414-000-033 032 and 0242.414-000-033 show the panel fasteners, wobserved condition in the fiethere is no nonconformance.  OPERABILITY EVALUATION Based on visual walkdowr seismic qualification or thintegrity of the panel is no
ems / Main Control Room: rk tables for work in progress es for drawings stand next to cabinet stond next to cabinet	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.	N/A
ICC16A, Bucket 5B, appears to be a missing screw at the bottom left hand corner of the rmer. ICC16A, Bucket 2A, transformer has three screws installed. The top right screw location was led (no hole) and no screw installed. [Pan head not drilled]. ICC16A, Bucket 4D, door top hinge (mounted on the left side) is off the swivel pin (pin is tely outside of the hinge tube)	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.	CR-RBS-2012-06311. Suggernissing fasteners and rewwR 286202 initiated to complete to complete to the search of Evaluation of these conditional determined that the seism of EHS-MCC16A is unaffer unengaged hinge at one eleafs and the seismic qualicontrol transformers is also by the installation of three instead of four (4) screws seismic testing effort. Also Rev 6 Attach. 9.1 for degrance of the d

-IED CONDITION	CONCLUSION	KESOLUTION
		long as no more than two
		loose fasteners AND no FI
		exists then the equipmen
		considered Operable. In tl
		one screw is missing from
		one screw missing from b
		screws. EHS-MCC16A will
		design function.
/G1A, door lower hinge pin raised at ACB08	Condition does not meet the	CR-RBS-2012-06312 initia
pper hinge pin raised at ACB04	Licensing Basis. Evaluation concludes	hinge pins rework. WR 28
	the pins raised out of the hinge by	to correct condition.
iddle hinge pin raised at ACB06	approx. ¼" continue to provide	
	adequate anchorage of the door	OPERABILITY EVALUATION
	panels and will remain in place during	1+ci+io: 0) od+ o: bo+c+o
	a seismic event.	
		procrasion of the fillinge pr
		adversely impact the abili
		to remain in place during
		conditions including seism
		there is adequate connect
		support the weight of the
		the load is distributed ove
		connection points. As a re
		condition has no adverse
		proper operation of the d
		panel.

-IED CONDITION	CONCLUSION	KESULUTION
T01A, battery rack angle attachment to the imbedded sill is missing one weld of two (on ide of angle) at two locations. The first location is at cell 38 and the second location is at cell ese 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
GR1A, interior mounting panel is missing two attachment screws. The missing screws are on er edge at the center portion of the plate. [Estimated number of screws are 4 on top 4 on (8 total). Panel is approx. 3' x 2' with ~ 30 pounds of material mounted on the plate. The is missing screws were intended locations to install screws. (Holes were threaded) ]	Licensing Basis. Evaluation concludes the missing fasteners are not acceptable.	CR-RBS-2012-06326 initia 00286244 initiated to concondition.  OPERABILITY EVALUATION The attached evaluation bratthe missing screws win unacceptable vibration boards mounted in the vicmissing screws and that the be fully capable of performing safety function. The screvinstalled in the panel are sadequate to resist all load 104, Rev 6 Attach. 9.1 for nonconforming conditions long as no more than two long as no more than two considered Operable. In the two screws are missing froch when some the ability of the charge its design function.

-IED CONDITION	CONCLUSION	KESOLUTION
C14A, STANDBY SWGR RM 1A 480V MCC14A	Condition does not meet the	CR-RBS-2012-06323 initia
work request to adjust latch on cubicle 1C so the door can open with the safety latch.	Licensing Basis. Evaluation concludes the missing fasteners and hinge	00286229 initiated to con
oor at breaker 2AT the top hinge was not attached completely (pin out of hinge significantly) approximately $12^{\prime\prime} \times 12^{\prime\prime}$ with 2 hinges and two latches.	conditions are not acceptable.	OPERABILITY EVALUATION
oor at breaker 2AB, the top hinge was not attached completely (pin out of hinge significantly) approximately 12" x 12 with 2 hinges and two latches.		The Operability evaluation the missing screws and th unseating of the door hing
ng for control power transformers are missing one mounting screw of 4. Bottom Right Screw :- Cubicle 2C, 4A, 4C, 4D, 4E, 4F; Bottom Left Screw Missing - Cubicle 4B		affect the seismic qualifications panel and that the identif
		does not adversely impact the transformers or the pa
		assembly to perform their licensing basis functions.
C2L, Auxiliary Building MCC2L		CR-RBS-2012-06483 initia
1C – transformer has three screws installed rather than four. Upper right screw missing.	Condition does not meet the	00287298 initiated to cori
	Licensing Basis. Missing fasteners are	
	equiled to be illocalled ill tille pallel	OPERABILITY EVALUATION
	per design.	The operability evaluation
		that the missing power tra
28 – Missing 1 screw on back plate of breaker, upper right corner, 1 of 4 screw locations.	Condition does not meet the	screw is identical to the sa
	Licensing Basis. Missing fasteners are	evaluated for EHS-MCC14
	required to be installed in the panel	evaluation was attached t
	per design.	evaluation also concluded
		missing screw on the back
		breaker for EHS-MCC2L de
		adversely affect operabili

-IED CONDITION	CONCLUSION	NESOED IN
on lighting fixtures. Florescent lighting fixtures in the plant are suspended by chains. The 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 address the condition. W 290720,290721 and 2907 initiated to correct the co OPERABILITY EVALUATION This CR describes a condit that is not within the scop Operability Determination
W165 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 initian missing bolt has been inst WO-329161.  OPERABILITY EVALUATION Review of seismic qualifica 092-016C (pdf page 133) that the actuator (bracket bolts (dwg. 0228.) items 32 & 33) have an inof 0.47, with all 8 bolts instindicated that the bolted and has approximately 50 bolts. Based on this robust is reasonable to conclude connection with only 7 of the installed during all design

-IED CONDITION	CONCLUSION	KESULUTION
ver of valve SFC-V356 is within ¾" of 4" pipe — clearance violation.	Condition does not meet the Licensing Basis. Clearance between valve and pipe violates specification requirements. Further evaluation required.	CR-RBS-2012-06687 has be DE has been assigned an a as is the described condition operation report descunace because and wheel of abandoned valve and non-safety related the second on the component SSCs that fall within the O Determination Process. The in place SFC piping is isolarest of the SFC system and SFC.
CC8B, Standby SWGR RM 1B MCC8B t of 3B in cable way bolt is slightly loose. 3B is a spare breaker.	Condition does not meet the Licensing Basis. Evaluation concludes the loose bolt should be fully tight. The condition is not acceptable	CR-RBS-2012-06847 was i Order# 00332318 has bee correct the condition. OPERABILITY EVALUATION
3B – top left screw in bucket to upper plate appears to not be fully engaged (tight). NOTE: 3B re breaker.	Condition does not meet the Licensing Basis. Evaluation concludes the screw should be fully engaged, condition is not acceptable	Based on the evaluation prone of these conditions adverse impact on the abiactive components in the perform their design and functions. The seismic quanche caismic qualification of the ceismic quanthe ceismic qualification of the ceismic qualificat
5B – loose MCC screw on bottom right between cubicle and cable way.	Condition does not meet the Licensing Basis. Evaluation concludes the condition of loose screw is not	components in the panel affected

-IED CONDITION	CONCLUSION	KESOLUTION
inspection of EHS-MCC2H bucket 4D (B21-F098D Main Steam Shutoff Valve) found 2 missing mounting screws for the breaker. This same condition exists for bucket 7D (B21-F027D MS ve Stem Leak-off Conn).	Condition does not meet the Licensing Basis. Evaluation determined the missing screws in 4D & 7D do not meet the licensing basis documentation. Further evaluation is required.	CR-RBS-2012-06391 and C 06399 initiated. Missing s OPERABILITY EVALUATION The missing screws were it the condition was correct Evaluation to determine it condition on the EHS-MC performed and the panel be operable.
alkdown of 98 Control Building ent grills above ENB-INV01B1 appears to be missing bolts. Grill is 2-piece, each piece has six rs installed. Need to investigate to determine how many fasteners need to be installed.	Condition does meet the Licensing Basis. Evaluation concludes acceptability of attachment of HVAC grill requires further evaluation.	CR-RBS-2012-06957 initiare following WRs were generaddress these conditions: screw on ENS-SWG1B; WF (conduit elbows); WR 002
humb screw on ENS-SWG1B cubicle 1 lower right.	Condition does not meet the Licensing Basis. Evaluation concludes the condition of a loose thumb screw on a cubicle is not acceptable.	OPERABILITY EVALUATION Based upon the Engineeri attached in this Condition be concluded that all equi capable of performing its
er is not tight on ENB-INV01B1 north face (side) , bottom right fastener, on outside of panel	Condition does not meet the Licensing Basis. Evaluation concludes one loose crew on the panel is not acceptable.	and remains Operable. The bolting has been determine the design requirements.  The loose thumb screw or does not adversely affect the latch to fully engage a there is no adverse impac

-IED CONDITION	CONCLUSION	KESOLUTION
		qualification of the panel. The loose fastener on ENE not adversely affect the a the cover plate.
CC2C and NHS-MCC2D – both cabinets are in close proximity to each other (Approximately 1" de to side) but not connected to each other. Potential interactions side to side.) nal information: MCC2C has 3 sections, MCC2D has 5 sections. Both MCC's welded to sills. Ichored)	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.	No action required.
side of cubicle 2D, the lower right hand door screw is not fully engaged (approximately ½" out). Door is solidly in cubicle and screw may be cross-threaded. Door has two hinges and ews.	Condition does not meet the Licensing Basis. Evaluation concludes that loose door screw is not acceptable.	CR-RBS-2012-06446 Door screw immediately t corrected the condition. OPERABILITY EVALUATION Screw tightened which co condition.
, 4D, 3D, 7D – missing screw in top right corner of cubicle. 2' cubicle issing a screw on the transformer - lower right screw, red material directly behind fastener e	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 initiary Order# 332326 initiated to issues.  OPERABILITY EVALUATION Based on engineering eva conditions described in the MCC2K is capable of perforesign functions and satistrequirements of Tech Spendistribution Systems Open

CC2B - EHS-MCC2B AUX BLDG		CK-KBS-2012-06866 initiated a
7A – Missing a bolt on transformer, upper right, 1 of 4 bolts (screws)	Condition does not meet the	Order# 332324 and Work Orde
	Licensing Basis. Evaluation concludes	initiated to correct the issues.
	that the missing fastener is required.	
	Further evaluation is required.	OPERABILITY EVALUATION SUF
5A – one screw is missing on the rear wall of the cubicle on the upper right side of the plate	Condition does not meet the Licensing Basis. Evaluation concludes	Based upon the Engineering evit can be concluded that all EHequipment is fully capable of p
	that the missing fastener is required.	its safety function, and remain
	Further evaluation required	Operable.
1CB – missing lower right back panel screw.	Condition does not meet the	
	Licensing Basis. Evaluation concludes	
	that the missing fastener is required.	
	Further evaluation required	
	The state of the s	

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19
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Date: 10/25/12

Date: 11/14/12

Peer Review Team Member

Nosighis

n Dunkelberg

# 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 DescriptionCNTRL BLDG CHILLED WTR SURGE TK 1A						
Location: Bldg. <u>CB</u> Floor El. <u>98 ft</u> Room, Area <u>1110</u>						
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.						
<u>Documents Reviewed</u> 0237.500-096-014, Rev. 300, 201.130-186 Rev. 002						
<u>Licensing Basis</u> The design of the anchor bolts require nuts to be fully engaged with few threads to spare.						
<u>Evaluation</u>						
Nuts are not fully engaged, further evaluation required.						
Ref. CR-RBS-2012-06242						
<u>Conclusion</u> 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	) Evaluatio	n Form				
LB Evaluation	No	LB-02	Origin	ating SV	VC/AWC	AWC	-1075
Equipment ID	No. HVK	-CHL1C_Equ	ip. Class	1	1		
Equipment Do	escription _	HVKC01 C	ONTROL	BLDG	CHILLED	WATER	COMPRESSOR
Location: Blo	g. <u>CB</u>	Floor El	098 ft	Room,	Area	1124	
Condition The clearance horizontal SA						•	2-MOV20C and the 336 is 1/2".
Documents I EP-40G Rev. EP-310A Rev BZ-350AM SI Specification	005, . 003, neet 1, Rev.	003,					
		quires min. of	1" cleara	nce betv	ween pipe	e and oth	er components.
Evaluation Clearance be needs further		s does not me	et specifi	cation r	equireme	nts of 1"	min. This issue
Ref. CR-RBS	-2012-0624	1					
Conclusion	Condition M	leets the Lice	nsing Ba	sis:		Yes	⊠ No
Prepared by:		r <u>Dalawari</u> nsing Basis R	eviewer	Nav.		Date	10/02/12
Reviewed by:	John	Dunkelberg Peer Re	) P Mu viewer	alle (	f	Date	_10/3/12

<b>Licensing Bas</b>	is (LB) Evaluation	Form			
LB Evaluation No.	LB-03	_ Originating	SWC/AW0	C: <u>SWEL</u>	1-063
Equipment Descri	H13-P693 Equip ption RPS LOGIC Control Bldg Floor El	DIV C		rea <u>1310</u>	
Condition Seismic qualificati mounting pattern the mounting patter report for panel H	on report 8224.600-00 with 5/8" bolts. The drage loger at the anchorage loger 13-P693 panel does nount the test panel to	0-048A indic awing or calc ocation could ot explicitly sl	ates the ca culation dep not be loca now the co	abinet is bo picting /per ated. Seis nfiguration	forming analysis of mic qualification
Documents Reviews 8224.600-000-048	<u>ewed</u> BA, Rev. 300, GE-914E	E522, sheet 1	& sheet 2		
Licensing Basis Seismic qualificati of the as-built anc	on must be demonstra horage.	ited by docur	mentation v	vhich justif	ies the acceptability
panel to the suppo	ing basis document to ort structure. This is a pattern drawing. CR-	documentati	on issue.	Condition	Report initiated to
<u>Conclusion</u> Cor	ndition Meets the Licen	sing Basis:		Yes	⊠ No
Prepared by:	Amar Dalawari Licensing Basis Rev	Jalaman		Date	10/02/12
Reviewed by:	John Dunkelberg	2 Manhle	7	Date <sub>.</sub>	10-02-12

Peer Reviewer

Licensing Basis (LB)	<b>Evaluation</b>	Form					
LB Evaluation No	LB-04	Originating SWC/	AWC	AWC-	1063		
Equipment ID No. H13-F	9693	Equip. Class	20				
Equipment Description	RPS LOGIC	DIV C					
Location: Bldg. CB	_ Floor El	136' Room, Are	ea	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, Confitems in the Main Control F		ems provides gene	eral guide	elines f	or adding loose		
Licensing Basis							
EDS-MD-002 provides gui	dance for tem	porary work items	in the M0	CR.			
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.							
<u>Conclusion</u> Condition M	eets the Licen	sing Basis:	☐ Ye	es	⊠ No		
Prepared by:John	Dunkelberg Licensing Bas	sis Reviewer		Date	<u>10-04-12</u>		
Reviewed by: Amar	Dalawari	a Samon		Date	10/4/12		

Peer Reviewer

## **Licensing Basis (LB) Evaluation Form**

LB Evaluation No.		LB-04	Origir	nating SWC/	AWC _	AWC-1063	
Equipment ID No.	H13-	P693	Equip	o. Class	20		
Equipment Descrip	tion	RPS LOGIC	DIV C				
Location: Bldg	СВ	_ Floor El	136'	_ Room, Are	ea	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**

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.

Engineering Report No. RBS-CS-12-00001 Rev. 001 Attachment F Page 7 of 35

Conclusion	Condition Meets the Licensing Basis:	
Prepared by: _	John Dunkelberg  Licensing Basis Reviewer	Date <u>10-04-12</u>
Reviewed by: _	Amar Dalawari Peer Reviewer	Date <u>10/4/12</u>

LB Evaluation No	LB-05 Originating SWC/AWC SWEL1-047	
Equipment ID No	EHS-MCC16A Equip. Class1	
Equipment Descript	tion STANDBY CLG TOWER 1 MTR CNTRL CENTE	<u>R 16A</u>
Location: Bldg.	SCT Floor El. 118 ft Room, Area 0104	

## **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.

Engineering Report No. RBS-CS-12-00001 Rev. 001 Attachment F Page 9 of 35

Conclusion	Condition Meets the Licensing Basis:	Yes	⊠ No
Prepared by:	Amar Dalawari Licensing Basis Reviewer	_ Date _	10/05/12
Reviewed by:	John Dunkelberg	_ Date _	10/5/12
	Peer Reviewer		

LB Evaluation No	LB-06	_ Originating SWC/AW	C <u>SWEL1-062</u>
Equipment ID No	ENS-SWG1A Eq	uip. Class <u>3</u>	
Equipment Description	on <u>4160 Stand</u>	by SWGR Bus1A	
Location: Bldg.	 <u>CB</u> 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

Engineering Report No. RBS-CS-12-00001 Rev. 001 Attachment F Page 11 of 35

Conclusion	Condition Meets the Licensing Basis:	☐ Yes	⊠ No
Prepared by:	John Dunkelberg Licensing Basis Reviewer	_ Date _	<u>10-25-2012</u>
Reviewed by:	Amar Dalawari Peer Reviewer	Date _	10/25/12

Licensing Ba	asis (LB)	Evaluation	n Form	า				
LB Evaluation N	No	LB-07	_ Origir	nating SV	VC/AWC	SWEL1	-056	
Equipment ID N	lo. <u>ENB</u> -	BAT01A	_ Equip	. Class	15 – Battery	Racks		
Equipment Des					TS DIRECT	CURRE	NT SYS	<u> </u>
Location: Bldg.	<u>CB</u>	_ Floor El	116	_Room,	Area	N/A		
Condition								
ENB-BAT01A, lone either side of location is at ce such welds on the such well as	of angle) a	t two locations se are the low	s. The f	first locat	ion is at cell	38 and	the sec	ond
Documents Re EE-038C EE-038AA E&DCR C-2090								
Licensing Bas	<u>is</u>							
Welds are show	vn at each	support point						
Evaluation E&DCR C-2090 design/licensing		ved the deletic	on of the	ese welds	s. Condition	n is in co	mplianc	e with
Conclusion	Condition	n Meets the Li	censing	Basis:		⊠ Yes	. [	] No
Prepared by:	John	<i>Dunkelberg</i> Licen	V	sis Revie	/	_Date <u>1</u>	<u> 0-5-12</u>	
Reviewed by: _	Amar	Dalawari	Jalan	van.		Date _1	0/5/12	

Licensing Basis (LB) Evaluation Form						
LB Evaluation No	LB-08	Originating SWC/A	WC _	SWEL1-057		
Equipment ID No. ENB-	-CHRG1A	Equip. Class	16			
Equipment Description BANK 1A CHARGER 1A	STDBY BU	S A 125 VOLTS DIRE	CT CL	JRRENT SYS BATRY		
Location: Bldg. CB	_ Floor El	116 ft Room, Area		1214		
Condition Two tapping screws (#10- are missing. Terminal bo channel of the charger us	ard sized 38"	x 27" requires to be m		-		
<u>Documents Reviewed</u> 0244.523-072-021 Rev. 3	000					
<u>Licensing Basis</u> 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. <u>Evaluation</u>						
Missing fasteners are rec CR-RBS-2012-06326 has						
Conclusion Condition N	Meets the Lice	ensing Basis:	☐ Ye	es 🛛 No		
Prepared by: Amar Licensing B	<u>Dalawari</u> asis Reviewe	A alawar	Date <sub>.</sub>	10/06/12		
Reviewed by:John	Dunkelberg	J. P. Klanhlang	_Date <sub>.</sub>	10/6/12		

Licensing Basis (LB)	<b>Evaluation Form</b>	1		
LB Evaluation No. <u>LB-09</u>	Origir	nating SWC/AWC _	SWEL 1-045	
Equipment ID No.	EHS-MCC14A	Equip. Class	1	
Equipment Description	STANDBY SWGR F	RM 1A 480V MCC1	4A	
Location: Bldg. CB	Floor El. <u>98</u>	_ Room, Area		
Condition Front door at breaker 2AT significantly) Door is appro	. •		• 11	ninge
Front door at breaker 2AB significantly) Door is appro		•	• ''	hinge
Mounting for control power Screw Missing - Cubicle		•	•	•
Documents Reviewed 0242.562-082-006 0242.562-082-007				
Licensing Basis Documentation requires th seismic qualification.	at the panel have all	hinges and fastene	ers installed to	demonstrate
Evaluation There is no licensing basis evaluation is required. See			bed above. Fu	ırther
Conclusion Condition M	eets the Licensing B	asis: \ \ \ \ \ Y	es 🛭 No	0
Prepared by: Amar Licens	Dalawari Sing Basis Reviewer	ravi	Date	10-06-12
Reviewed by: John I	Dunkelberg Dunkelberg	mblerg	Date	10/6/12

LB Evaluation No	LB-10	Originating S	SWC/AWC	SWEL1-049	
Equipment ID No	EHS-MCC2L	Equip. Class	1		
Equipment Descrip	tion <u>AUXIL</u>	IARY BUILDII	NG MCC2L		
Location: Bldg	AB Floor	El. <u>141 ft</u>	Room, Area	6306	

## **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.

Engineering Report No. RBS-CS-12-00001 Rev. 001 Attachment F Page 16 of 35

Conclusion	Condition Meets the Licensing Basis:	☐ Yes	⊠ No
Prepared by:	Amar Dalawari Licensing Basis Reviewer	_ Date <sub>-</sub>	10/08/12
Reviewed by:	John Dunkelberg  Peer Reviewer	_ Date _	10/8/12

LB Evaluation No.		LB-11	Origi	nating SW0	C/AWC	AWC-1070	
Equipment ID No.	HVC	-AOD6A	Equip	. Class	7		
Equipment Descrip	otion	HVC*ACU1	A AIR C	OUTLET (C	D-1-1	_	
Location: Bldg	СВ	_ Floor El	115	_ Room, Aı	rea	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

Engineering Report No. RBS-CS-12-00001 Rev. 001 Attachment F Page 18 of 35

## **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.

Licensing Basi	is (LB) Evaluation	n Form			
LB Evaluation No.	LB-12	Originating SWC/A	WC	SWEL	_1-119
Equipment ID No.	HVR-AOV165 Equ	ip. Class7			_
Equipment Descrip	ption <u>CONTMT SF</u>	PLY OUTBD ISOL (A	AL-2-15	<u>2')</u>	
Location: Bldg	AB Floor El.	141 ft Room, Area	a <u>6307</u>	_	
between the value are A193 Grade bolts between to bolts between to bocuments Review 0228.241-092-0 SQE 1903, Rev 4228.241-092-0 Licensing Basis	014 Rev. 300 7. 002 004F, Rev. 300	is missing. Per draw mic walk down team and the valve are in	ving 022 also co stalled.	28.241- onfirme	092-014, the bolts d that all four (4)
	requires that the actu ismic qualification.	ator mounting brack	et nave	all las	teriers installed to
indicates that the where operator required by the design drawing	ocuments and/or seis here is no licensing bar is attached to the brace design documents. g and seismic report. 1-06352 initiated.	asis to justify qualification acket with seven (7)	cation of bolts in	f the va	live assembly of the eight (8) bolts
<u>Conclusion</u> Con	dition Meets the Licer	nsing Basis:	☐ Ye	es	⊠ No
Prepared by:	Amar Dalawari Licensing Basis Re	Jawan' viewer	_	Date <sub>-</sub>	10/10/12
Reviewed by:	John Dunkelberg	J. P. Nemblerg		Date	10/10/12

Licensing Basis (LB) Evaluation Form
LB Evaluation No. <u>LB-13</u> Originating SWC/AWC <u>AWC -2009</u>
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 ¾" of 4" pipe – clearance violation
Documents Reviewed
228.160
<u>Licensing Basis</u> Documentation requires that these components have a minimum 1" clearance to demonstrate seismic qualification.
<u>Evaluation</u>
Further evaluation is required. See CR-RBS-2012-06687
<u>Conclusion</u> Condition Meets the Licensing Basis: ☐ Yes ☐ No
Prepared by:
Reviewed by: Amar Dalawari Date Date

LB Evaluation No. <u>LB-14</u> Originating SWC/AWC <u>SWEL2-006</u>						<u>i</u>
Equipment ID No.		EHS-MCC8I	B_Eq	uip. Class1		
Equipment Descri	ption	STAN	IDBY S	SWGR RM 1B MC	CC8B	
Location: Bldg	СВ	_ 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  $\frac{1}{2}$ " wide x  $\frac{1}{8}$ " 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 beb 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

LB Evaluation No. <u>LB-15</u> Originating SWC/AWC <u>SWEL2-005</u>

Equipment ID No. EHS-MCC2H Equip. Class 1

Equipment Description <u>AUXILIARY BUILDING MCC2H</u>

Location: Bldg. AB Floor El. 114 ft Room, Area 6203

## 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.

Eval	4 -	
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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 Licensing Basis Reviewer	Date _	10/10/12
Reviewed by:	John Dunkelberg  Peer Reviewer	Date _	10/10/12

LB Evaluation No. <u>LB-16</u> Originating SWC/AWC <u>AWC-2006</u>

Equipment ID No. <u>EHS-MCC8B</u> Equip. Class <u>1</u>

Equipment Description <u>STANDBY SWGR RM 1B MCC8B</u>

Location: Bldg. CB Floor El. 098 ft Room, Area 1114

## 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.

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Conclusion	Condition Meets the Licensing Basis:	Yes	⊠ No
Prepared by:	Amar Dalawari Licensing Basis Reviewer	Date <u>10/</u>	<u>12/12</u>
Reviewed by:	John Dunkelberg Peer Reviewer	Date <u>10/</u>	12/12
	L CCI I/CAICMCI		

LB Evaluation No.	LB-1	7	Orig	inating SWC/AWC	AWC-2	<u>005</u>	
Equipment ID No.	EHS-	MCC2H	Ec	quip. Class <u>1</u>			
Equipment Descrip	tion _	AUXILIARY	BUILI	DING MCC2H			
Location: Bldg	СВ	_ Floor El	98	Room, Area	1114		

## **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.

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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-18 Originating SWC/AWCAWC-1048
Equipment ID No. EHS-MCC2D Equip. Class 1
Equipment Description <u>AUXILIARY BUILDING MCC2D</u>
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 ½" 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
<ol> <li>EHS-MCC2D behind 2D, screw not fully engaged. Nonconforming condition, WR 287016 written to rework. CR-RBS-2012-06446 initiated to track issue.</li> <li>EHS-MCC2D behind cubicle 4. Door is securely attached to panel, and therefore there is no seismic issue. Rework door hinge.</li> <li>Sprinkler head clearance has been evaluated by EEAR-E0420, acceptable.</li> <li>Rope in the overhead is a housekeeping issue, not a seismic issue.</li> </ol>
by: John Dunkelberg Date 10-12-12  Licensing Basis Reviewer
Reviewed by: Amar Dalawari Peer Reviewer Date 10/12/12

LB Evaluation No.	LB-19	_ Originating S	SWC/AWC	SWEL1-117
Equipment ID No.	EHS-MCC2K	Equip. Class	1	_
Equipment Descrip	tion <u>Auxiliary Bui</u>	Iding MCC2K		_
Location: Bldg.	A B Floor	El. 141	Room, Area	6302

## 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

Engineering Report No. RBS-CS-12-00001 Rev. 001 Attachment F Page 33 of 35

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 <sub>-</sub>	10/25/12

## 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.

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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.

Conclusion C	ondition Meets the Licensing	Basis:	Yes	⊠ No
Prepared by:	John Dunkelberg Licensing Basis Review	er landle	Date	<u>10-25-2012</u>
Reviewed by: _	Amar Dalawari Peer Reviewer	Smari	_ Date _	10/25/12

# Attachment G Peer Review Checklist for SWEL

#### **Peer Review Checklist for SWEL**

Sheet 1 of 3

## **Instructions for Completing Checklist**

class 11 (Chillers) has at least two components.

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.

10	uoc	currenting other comments.		
1.	The sup	ere the five safety functions adequately represented in the SWEL 1 selection?  SWEL 1 selection represents all five (5) safety functions. Several components opport multiple safety functions. Selected components include both frontline and opport systems.	Υ⊠	N.
2.		es SWEL 1 include an appropriate representation of items having the following sample selectibutes:	tion	
	a.	Various types of systems?  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.	Υ⊠	N□
	b.	Major new and replacement equipment?  Several major new and replacement equipment installed or upgraded within the past 15 years are included on SWEL 1.	Υ⊠	N□
	C.	Various types of equipment?  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	Υ⊠	N□

Peer Review Checklist for SWEL	Sheet 2 of 3
d. Various environments? 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).	Y⊠ N□
e. Equipment enhanced based on the findings of the IPEEE (or equivalent) program?  N/A - No equipment enhancements were associated with Seismic IPEEE for RBS.	Y□ N⊠
f. Were risk insights considered in the development of SWEL 1?  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.	Y⊠N□
3. For SWEL 2:	
<ul> <li>a. Were spent fuel pool related items considered, and if applicable included in SWEL 2?</li> <li>SWEL 2 includes components associated with spent fuel pool cooling, which are Seismic Category I systems or equipment.</li> </ul>	Y⊠ N□
<ul> <li>b. Was an appropriate justification documented for spent fuel pool related items not included in SWEL 2?</li> <li>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.</li> </ul>	Y⊠ N□

#### 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 IPEE 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, including minor changes made during RFO-17 for walkdowns of initially deferred items.

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:	5/29/13
Peer Reviewer #2: Ben Kosbab Date:	5/28/13

## **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

Entergy	ergy		Seismic Walkdown Submittal Report Review Comments and Resolutions Form	Submittal Report I Resolutions Form	
Engineering Report Number	RBS-CS-12-00001	00001	Rev. Title 000 River Bend Station Seismic Wa Fukushima NTTF 2.3: Seismic	Title River Bend Station Seismic Walkdown Report for Resolution of Fukushima NTTF 2.3: Seismic	ution of
Quality Related:	☐ Yes	No N	Special Notes or Instructi	Special Notes or Instructions: Comments apply to SWEL review	
Comment Sec Number	Section/Page No.	Review Comment	mment	Response/Resolution	Reviewer's Accept Initials
<b>~</b>	BL 1	Define what the asterisk (*) denotes under Screen 3. A legend would be a good way to accomplish this.	notes under Screen 3. A saccomplish this.	The asterisk indicates that the item supports a <i>secondary</i> safety function. A footnote to the table has been provided.	BDK
2	BL 1	All items under Screen 2 are shown to undergo regula configuration inspections. Is this true? If all undergo inspections then all will screen out of the SWEL 1 list.	reen 2 are shown to undergo regular ections. Is this true? If all undergo will screen out of the SWEL 1 list.	No, this is not true and has been corrected.	BDK
e e	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.	should be "Yes" or "No". Functions fer this column should be summarized 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.	identify any BL1 items as having been ult of the IPEEE program. Please 3S IPEEE program did not identify any ties.	Confirmed, based on the RBS IPEEE submittal and NUREG-1742.	BDK
2	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 EPRI).	ted as High Temp or High Humidity ease confirm (seems like SSCs and those outside would be due to mid are not defined by EPRI).	Draft reviewed was incomplete. That column has been populated as needed.	BDK
9	BL 1	Valve C11-SOVF182 should be listed as Reactivity Control, not DHR, under "Five Safety Functions".	82 should be listed as Reactivity 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.	ecked "Y" for Screen 3 are blank for ory indicated). If these do not 5 functions Screen 3 should be "N" 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

$\Longrightarrow_{En}$	Entergy		Seismic Walkdown Submittal Report Review Comments and Resolutions Form	Submittal Report d Resolutions Form	
Engineering Report Number	RBS-CS-12-00001	.00001	Rev. Title 000 River Bend Station Seismic Wa Fukushima NTTF 2.3: Seismic	Title River Bend Station Seismic Walkdown Report for Resolution of Fukushima NTTF 2.3: Seismic	ıtion of
Quality Related:	∏Yes	No N	Special Notes or Instructi	Special Notes or Instructions: Comments apply to SWEL review	
Comment S Number	Section/Page No.	Review Comment	mment	Response/Resolution	Reviewer's Accept Initials
ω	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).	nclude reference to the e a part of as listed in i (not just the safety	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
ത	SWEL 1	There is no equipment representing cate generator). Please confirm if any apply.	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).	sis for determining that no items down (i.e. no SFP penetrations exist bove the top of the fuel assemblies). 2.3.3 states that anti-siphoning t to prevent pool water from being ft above the top of the fuel, but does o penetrations below this level. Per must either confirm that there are no this level, justify why these devices om SWEL 2, or add them to RDD & 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

	Fratoria		S	Seismic Walkdown Submittal Report	Seismic Walkdown Submittal Report Review Comments and Resolutions Form		
7	uergy						
Engineering		RBS-CS-12-00001	Rev.	Title			
Report Number	nber		000	River Bend Stati	River Bend Station Seismic Walkdown Report for Resolution of	port for Resolu	ıtion of
				Fukushima NTTF 2.3: Seismic	F 2.3: Seismic		
Quality Related:	lated: 🔲 Yes	No N	Speci	ial Notes or Instructi	Special Notes or Instructions: Comments apply to SWEL review	VEL review	
Comment	Section/Page No.	No.	Review Comment		Response/Resolution	ıtion	Reviewer's
Number							Accept Initials
11	SWEL 1 & 2		Consider reducing items on list by eliminating duplicates	minating duplicates	This has been considered and planning	and planning	BDK
		based on known a	based on known availability during walkdowns.	alkdowns.	of the walkdowns is being done based	lone based	
					on divisional access to allow us to	w us to	
					inspect all items on the list.		
	Reviewed By:	Benjamin D. Kosbab		Date 10/02/12	Resolved By: David Bassi	ssi	
Site	Site/Department:	ENERCON/Civil	Ph.	(770)590-2179	Date:   10	10/4/2012	

	on 23. Seismic		Reviewer's	Accept Initials	7356
Submittal Report nd Resolutions Form	Title River Bend Station Seismic Walkdown Report for Recommendation 23: Seismic	ions: OPs Review of SWEL	Response/Resolution		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)  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.
Seismic Walkdown Submittal Report Review Comments and Resolutions Form	Rev. Title River Bend Sta	Special Notes or Instructions: OPs Review of SWEL			tly I see only 2 scram water side, one for N2 lo inspect a percentage,
	RBS-CS-12-00001	No No	Review Comment		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.  Would it not be more appropriate to do inspect a percentage, say 10%?
Entergy		elated: 🗌 Yes	Section/Page No.		
	Engineering Report Number	Quality Related:	Comme	Number	<del>-</del>

935 8		
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.  We did not explicitly list all the containment isolation valves on the base SWEL, although I did review the containment isolation valves on the base SWEL, although I did review the containment isolations which would be of interest for the Walkdowns.  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 linventory Control function (e.g., ECCS injection line valves).  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.	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.	Date   10-2-12   Resolved By:   P. Sicard/ D. Bassi
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.  What was the justification for not inspecting all the ctmt isol valves?		My SEEF PRYNIDS
N		Reviewed By: Site/Department:

		ecklists	Reviewer's Accept Initials	<i>W.</i> S.	W.S	W.S.
Seismic Walkdown Submittal Report Review Comments and Resolutions Form	River Bend Station Seismic Walkdown Report for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic	Special Notes or Instructions: Comments apply to Walkdowns and Checklists	Response/Resolution	Forms now describe equipment anchorage condition	Forms now describe anchorage condition	Forms now describe anchorage inspection results
Seismic Walkdown Submittal Report view Comments and Resolutions Fo	N 13 85 N.S. 10	cial Notes or Instruct		e equipment requirements. /50 as to whether or	nis question has a requirement to state norage. Stating only the anchorage s slightly confusing for bolted to whether or not the observed ceptable. A generic statement stating not loose, missing, or bent would action. This is an observation of a syement only. Incorporation is at the stion.	number of the checklists reviewed only so used for verification of the ocedure EN-DC-168 requires a brief the evaluation results.
Rev	1 Rev. 000	Spec	Review Comment	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.	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.	Question 5: A number of the checklists reviewed or list the drawings used for verification of the anchorage. Procedure EN-DC-168 requires a brief description of the evaluation results.
Entergy	RBS-CS-12-00001	lated: ☐ Yes ⊠ No	Section/Page No.	SWC-General	SWC-General	SWC-General
	Engineering Report Number	Quality Related:	Comment Number	SMM1	SMM2	SMM3

	Entergy		Seismi Review C	c Walkdown omments an	Seismic Walkdown Submittal Report Review Comments and Resolutions Form	
Engineering Report Number	g RBS-CS-12-00001		Rev. Riv 000 for Re	er Bend Stati Resolution of commendatio	River Bend Station Seismic Walkdown Report for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic	
Quality Related:	elated: Tyes No		Special Not	tes or Instructi	Special Notes or Instructions: Comments apply to Walkdowns and Checklists	ecklists
Comment	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.	ient: Consider adding CR/LB nur VC for conditions which were is not directly required in the would provide clarification for rea f this comment is not required. T of a potential improvement only.	//LB numbers /ere the n for readers. uired. This is	CR & LB numbers have been added to SWEL & AWCs as required.	W.S.
WS1	Review of SWC and AWC for SWEL1-009 (CH-AOVF011)	This valve is an in-line component (not anchored) yet Questions 2 and 3 are marked "Y".  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.	honent (not a ked "Y". " and includes Clarification s removed for	anchored) yet s a note is needed, the in-line	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".	W. S.
WS2	Review of SWC and AWC for SWEL1-018	This valve is an in-line component (not anchored) yet Questions 2 and 3 are marked "Y".  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.	hponent (not a ked "Y". operator pene of the picture grating, but no spatial intera	anchored) yet etrates floor s, there is o statement ction is	See comment WS1 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.	W.S.

	Entergy		Seisr Review	mic Walkdown Comments an	Seismic Walkdown Submittal Report Review Comments and Resolutions Form	
Engineering Report Number	ng RBS-CS-12-00001		Rev. 6	River Bend Station Seismic Wa for Resolution of Fukushima Ne Recommendation 2.3: Seismic	River Bend Station Seismic Walkdown Report for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic	
Quality Related:	elated:		Special	lotes or Instructi	Special Notes or Instructions: Comments apply to Walkdowns and Checklists	necklists
Comment Number	Section/Page No.	Review Comment			Response/Resolution	Reviewer's Accept Initials
WS3	Review of SWC and AWC for SWEL1-047 (EHS-MCC16A)	The SWC is completed with status "Y", but the Comments include the following statement:  Out of alignment door hinge on bucket 4D.  Screw appears to be missing in buckets 5B & 2A on transformers.  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).	impleted with status "Y", but the ude the following statement: nt door hinge on bucket 4D. to be missing in buckets 5B & 2A should be provided in response to ther Adverse Conditions), and ship seismic concern and why (or why	mpleted with status "Y", but the ude the following statement:  It door hinge on bucket 4D.  to be missing in buckets 5B & 2A on should be provided in response to ther Adverse Conditions), and should seismic concern and why (or why	"Y" is marked as the status because the walkdown is complete.  Q11 and comments were updated to include LB and CR for this seismic concern	W.S.
WS4	Review of SWC and AWC for SWEL1-051 (EJS-LDC2A)	The SWC is completed with status "U", but all of the questions are marked "Y". The Comments include the following statement:  On the left hand side of cubical 36, there is a tie rap and small screw loose (resting on shelf) outside of the rails.  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).	th status "U The Comn bical 36, the sting on she provided in a se Condition	", but all of the nents include ere is a tie rap iff) outside of response to is, and should hy (or why	"U" was used as a placeholder and has been changed to "Y" See resolution for comment WS3	W. S

	Property of the Control of the Contr		Seis	mic Walkdown	Seismic Walkdown Submittal Report	
	= Entergy		Review	v Comments an	Review Comments and Resolutions Form	
Engineering Report Number	RBS-CS-12-00001		Rev. 000	River Bend Station Seismic Wa for Resolution of Fukushima Ne Recommendation 2.3: Seismic	River Bend Station Seismic Walkdown Report for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic	
Quality Re	Quality Related: 🗌 Yes 🛚 🕅 No		Special	Notes or Instruct	Special Notes or Instructions: Comments apply to Walkdowns and Checklists	necklists
Comment	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:  Missing 2 screws on interior mounting panel.  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).	h status "L The Com or mountin orovided in se Conditic	impleted with status "U", but all of narked "Y". The Comments include atement:  ws on interior mounting panel.  should be provided in response to should be conditions), and should seismic concern and why (or why	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".	h status "U Include th	J", but all of the	See resolution for comment WS4	W.S.

		hecklists	Reviewer's Accept Initials	J. S.	W.S.
Submittal Report nd Resolutions Form	River Bend Station Seismic Walkdown Report for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic	Special Notes or Instructions: Comments apply to Walkdowns and Checklists	Response/Resolution	Discussion was added.  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".	See resolution for comment WS1
Seismic Walkdown Submittal Report Review Comments and Resolutions Form	Rev. River Bend Station Seismic Wa 000 for Resolution of Fukushima Ne Recommendation 2.3: Seismic	pecial Notes or Instructi		the SWC is completed with status "Y", ents include the following statement: lights in the area; one fixture has gage y shielded from impact, the other could ected small-bore pipe attached to HVK-n why the potential impact to the small sceptable.  In why the following statement: mall interference ISAS-V836 Valve and K-MOV20C r questions are marked "Y". Therefore, tus should be "N".	nent (not anchored) yet
<u> </u>		35	Review Comment	Question 7 of the SWC is completed with status "Y", but the comments include the following statement:  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.  Add discussion why the potential impact to the small bore pipe is acceptable.  The AWC is completed with status "U", but Question 4 is marked "N" with the following statement:  Strut to pipe small interference ISAS-V836 Valve and Strut area HVK-MOV20C  All of the other questions are marked "Y". Therefore, the overall status should be "N".	This valve is an in-line component (not anchored) yet Questions 2 and 3 are marked "Y".
Entergy	g RBS-CS-12-00001	lated: 🗆 Yes 🖂 No	Section/Page No.	Review of SWC and AWC for SWEL1-075 (HVK-CHL1C)	Review of SWC and AWC for SWEL1-076 (HVK-MOV20C)
	Engineering Report Number	Quality Related:	Comment	WS7	WS8

		hecklists	Reviewer's Accept Initials	W.S.	ω. S.	W.S.	W. S
Seismic Walkdown Submittal Report Review Comments and Resolutions Form	River Bend Station Seismic Walkdown Report for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic	Special Notes or Instructions: Comments apply to Walkdowns and Checklists	Response/Resolution	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	See resolution for comment WS1	See resolution for comment WS1	See resolution for comment WS1
seismic Walkdown riew Comments ar	River Bend Stat for Resolution o Recommendatic	ial Notes or Instruct		should be marked essible anchors.	2 and 3 should be	2 and 3 should be	2 and 3 should be
S	1 Rev. 000	Spec	Review Comment	Questions 2, 3, 5 and 6 of SWC should be marked "U" instead of "Y" based on inaccessible anchors.	The SWC answers to questions 2 and 3 should be "N/A" for inline component.	The SWC answers to questions 2 and 3 should be "N/A" for inline component.	The SWC answers to questions 2 and 3 should be "N/A" for inline component.
Entergy	g RBS-CS-12-00001	lated: 🗆 Yes 🛮 No	Section/Page No.	Review of SWC and AWC for SWEL1-081 (HVP-FN2A)	Review of SWC and AWC for SWEL1-057 (CMS-RTD4C)	Review of SWC and AWC for SWEL2-008 (SFC-AOV31A)	Review of SWC and AWC for SWEL2-0016 (SWP-MOV504B)
	Engineering Report Number	Quality Related:	Comment	WS9	WS10	WS11	WS12

Entergy ==	tergy	œ	Seismic Walkdown Submittal Report Review Comments and Resolutions Form	Submittal Report Id Resolutions Form	
Engineering Report Number	RBS-CS-12-0000		Rev. River Bend Station Seismic Wal for Resolution of Fukushima Ne Recommendation 2.3: Seismic	River Bend Station Seismic Walkdown Report for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic	orce
Quality Related:	d: ☐ Yes 🖂 No		pecial Notes or Instructi	Special Notes or Instructions: Comments apply to Walkdowns and Checklists	wns and Checklists
Comment Section/Page No.	ction/Page No.	Review Comment		Response/Resolution	Reviewer's Accept
WS13	All AWCs	Verify that AWCs which associated with multiple components correctly lists all components on the form.	ciated with multiple components on the	Completed	W, S.
Reviewed By:		Whisten Stevent / WH AN	Date   1//4/12/12	11/14/2012 Resolved By: J. Dunkelberg/D. Bassi	D. Bassi
Site/Department:	ıt.	Ph.		Date: 10/16/12	

	Entergy		Seismic Walkdown Submittal Report Review Comments and Resolutions Form	Submittal Report d Resolutions Form	
Engineering Report Number	g RBS-CS-12-00001 nber	00001	Rev. Title 0000 River Bend Station Seismic Wa Fukushima NTTF 2.3: Seismic	Title River Bend Station Seismic Walkdown Report for Resolution of Fukushima NTTF 2.3: Seismic	ution of
Quality Related:	☐ Yes	No 🖂	Special Notes or Instructi	Special Notes or Instructions: Comments apply to LBE review	
Comment Number	Section/Page No.	Review Comment		Response/Resolution	Reviewer's Accept Initials
~	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 indepth evaluation be removed from the LBE and incorporated into the CAP process CR resolutions.	is intended to compare an observed ing documentation to determine on is consistent with the seismic of. If not, then a CAP entry is avaluation of the condition (including on, extent of condition, root cause sated within the plant CAP (not the ears that many of the LBEs performed ion further than intended by the LBE, whether the condition identified is $\gamma$ or not. Suggest that this more inserenced from the LBE and is 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
7	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.	on" determines whether a CAP entry Potentially adverse seismic conditions "an LBE in the context of licensing on (see comment 1) should be marked ence 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
က	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.	initiated whenever an SWC/AWC "N", unless the condition is sent "CAP. Likewise, an LBE is not an "non-seismic" conditions identified ms which should be sent directly to tool is specific for the NTTF 2.3:	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

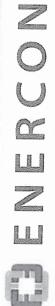
4	General, LBE	The first step o	The first step of an LBE, per EPRI Guidance Section 5,   LBE "Licensing Basis" summaries have	uidance S	ection 5,	LBE "Licensing Bas	is" summaries have	BDK
	(11/12/12)	is to determine the	the current licensing basis for the plant	basis for t	ne plant	been revised for clarity where possible,	rity where possible,	
		as it relates to	as it relates to the seismic adequacy of the equipment.	of the equ	uipment.	concisely stating the	concisely stating the contextual licensing	
		Specifically, th	Specifically, this should be done in the context of the	ne context	of the	basis to allow the "Evaluation" to	Evaluation" to	
		identified poter	dentified potentially adverse seismic condition being	condition	being	transparently conclude whether the	de whether the	
		evaluated. In	evaluated. In several cases, this summarized "Licensing	nmarized	"Licensing	licensing basis is met or not.	et or not.	
		Basis" in the L	Basis" in the LBEs could be improved for clarity of intent.	d for clarit	y of intent.			
Reviewed By:		Benjamin D. Kosbab		Date	10/31/12	10/31/12 Resolved By: John Dunkelberg	ohn Dunkelberg	
Site/Department:		ENERCON/Civil	Ph. 770-590-2179		& 11/12/12   Date:	Date:	11/14/12	

### **Attachment I**

### **Seismic Walkdown Engineer Training Certificates**

### **List of Certificates**

SWE	Capacity	Page
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



Excellence—Every project. Every day.

## Certificate of Completion

is hereby granted to

## John Dunkelberg

for successful completion of

### TRAINING ON NEAR TERM TASK FORCE PLANT SEISMIC WALKDOWNS RECOMMENDATION 2.3

Awarded: 9/13/2012 in Mt. Arlington, NJ

/ Kevin Bessell Certified Seismic Walkdown Engineer Palo Alto, CA – 6/13/2012

Commission of the Commission o

Alex Smerch Certified Seismic Walkdown Engineer Palo Alto, CA – 6/13/2012



## Jose Cardona

**Training on Near Term Task Force** Plant Seismic Walkdowns Recommendation 2.3

July 19, 2012

R.P. Kassawana



## Brandon Nissing

Training on Near Term Task Force Plant Seismic Walkdowns Recommendation 2.3

July 19, 2012

R.P. Kassawana



is hereby granted to

### David Bassi

for successful completion of

### TRAINING ON NEAR TERM TASK FORCE PLANT SEISMIC WALKDOWNS RECOMMENDATION 2.3

August 22, 2012 - Kennesaw, GA

Date - Location

Kursat Kinali, Ph.D., P.E.

EPRI Certified Seismic Walkdown Engineer Alexandria, VA – 7/27/2012



### Jason Halsey

Training on Near Term Task Force - Plant Seismic Walkdowns Recommendation 2.3

July 27, 2012

R.P. Kassawan

EPRI Manager, Structural Reliability & Integrity

Robert K. Kassawara



is hereby granted to

## Matt Keeney

for successful completion of

### TRAINING ON NEAR TERM TASK FORCE PLANT SEISMIC WALKDOWNS RECOMMENDATION 2.3

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



is hereby granted to

## Amar Dalawari

for successful completion of

### TRAINING ON NEAR TERM TASK FORCE PLANT SEISMIC WALKDOWNS RECOMMENDATION 2.3

Awarded: 9/13/2012 in Mt. Arlington, NJ

Kevin Bessell

Certified Seismic Walkdown Engineer Palo Alto, CA – 6/13/2012

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 PLANT SEISMIC WALKDOWNS RECOMMENDATION 2.3

Awarded: 7/11/2012 in Kennesaw, GA

Certified Seismic Walkdown Engineer Palo Alto, CA - 6/13/2012

Kenneth Whitmore

Certified Seismic Walkdown Engineer Alexandria, VA – 6/20/2012



## Winston Stewart

Training on Near Term Task Force - Plant Seismic Walkdowns Recommendation 2.3

June 21, 2012

R.P. Kassawan



## Shawn McFarland

Training on Near Term Task Force - Plant Seismic Walkdowns Recommendation 2.3

July 27, 2012

R.P. Kassawan



### Alex Smerch

**Training on Near Term Task Force**  Plant Seismic Walkdowns Recommendation 2.3

June 13, 2012

R.P. Kassawan

EPRI Manager, Structural Reliability & Integrity



## Kenneth Whitmore

Training on Near Term Task Force Plant Seismic Walkdowns Recommendation 2.3

June 21, 2012

R.P. Kassanan



### Kevin Bessell

**Training on Near Term Task Force** - Plant Seismic Walkdowns Recommendation 2.3

June 13, 2012

R.P. Kassawan



## Kursat Kinali

Training on Near Term Task Force - Plant Seismic Walkdowns Recommendation 2.3

July 27, 2012

R.P. Kassawan

### Attachment J Deferred Seismic Walkdown Checklists (SWC)

PAGE 1 OF 5

Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-001</u>
Equipment ID No. <u>B21-AOVF022B</u> Equip. Class <sup>1</sup> _7
Equipment Description MAIN STM LINE INBRD ISOL VLV B
Location: Bldg. DRYWELL Floor El. 130 Room, Area 9303
Manufacturer, Model, Etc. (optional but recommended) Atwood/Morril Model# 31094-01/31096-01
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
Is the anchorage free of bent, broken, missing or loose hardware?     Y⊠ N□ U□ N/A□     No missing, bent, broken hardware
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?  Anchorage free of corrosion
4. Is the anchorage free of visible cracks in the concrete near the anchors?  In-line valve

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

PAGE 2 OF 5

	Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) <u>SWEL1-001</u>	
Equipment ID No. <u>B21-AOVF022B</u> Equip. Class 7	
Equipment Description MAIN STM LINE INBRD ISOL VLV B	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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	
Interaction Effects  7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ 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

Caiamia Malkalawa Chaakiist (CMC) CMEL4 004	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-001</u>	
Equipment ID No. <u>B21-AOVF022B</u> Equip. Class 7	
Equipment Description MAIN STM LINE INBRD ISOL VLV B	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)  Walkdown performed during RF-17	
Evaluated by: <u>D. Bassi</u>	Date: <i>2/20/13</i>
J. E. Glunh / berg	
J. Dunkelbera	2/20/13

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	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC) SWEL1-0	
Equipment ID No. <u>B21-AOVF022B</u> Equip. Class	s_7
Equipment Description MAIN STM LINE INBRD ISOL V	/LV B
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) SWEL1-	Status: Y⊠ N□ U□ 001
Equipment ID No. <u>B21-AOVF022B</u> Equip. Cla	ss_7
Equipment Description MAIN STM LINE INBRD ISOL	VLV B
Note:	Note:

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PAGE 1 OF 5	Ctatus VV NV NV
Seismic Walkdown Checklist (SWC) SWEL1-002	Status: Y⊠ N□ U□
Equipment ID No. <u>B21-AOVF028B</u> Equip. Class <sup>1</sup> 7	
Equipment Description MAIN STM LINE OUTBRD ISOL VLV B	
Location: Bldg. <u>MST</u> Floor El. <u>130</u> Room, Area <u>8205</u>	
Manufacturer, Model, Etc. (optional but recommended) Atwood/Morril Model 3	31094-01/31096-01
Instructions for Completing Checklist	
This checklist may be used to document the results of the Seismic Walkdown of SWEL. The space below each of the following questions may be used to record findings. Additional space is provided at the end of this checklist for documenting	the results of judgments and
Anchorage	
1. Is the anchorage configuration verification required (i.e., is the item 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 loose/broken hardware noted. A few of the nuts checked by feel, through insulation blanket. Most were visually inspected by pulling insulation back.	Y⊠ N□ U□ N/A□
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Only minor mild surface corrosion noted on this main steam valve surfaces</li> </ol>	Y⊠ N□ U□ N/A□
Is the anchorage free of visible cracks in the concrete near the anchors?  In-line valve, no concrete	Y□ N□ U□ N/A⊠
iii iiio vaivo, iio ooiloloto	

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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Seismic Walkdown Checklist (SWC) <u>SWEL1-002</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>B21-AOVF028B</u> Equip. Class 7	
Equipment Description MAIN STM LINE OUTBRD ISOL VLV B	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-002</u>	
Equipment ID No. <u>B21-AOVF028B</u> Equip. Class 7	
Equipment Description MAIN STM LINE OUTBRD ISOL VLV 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□
<u>Comments</u> (Additional pages may be added as necessary)	
This inspection in the MST was performed during RF-17.	
Evaluated by: J. Dunkelberg	Date: <i>2/24/13</i>
Evaluated by. <u>J. Dulinelberg</u>	_ Date. 2/27/13
<u> </u>	
D Bassi	2/24/13

Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u>	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>B21-AOVF028B</u> Equip. Class	s_7
Equipment Description MAIN STM LINE OUTBRD ISC	DL VLV B
Photographs	
Note:	Note:

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Seismic Walkdown Checklist (SWC) SWEL1-	Status: Y⊠ N□ U□	
Equipment ID No. <u>B21-AOVF028B</u> Equip. Class	ss_7	
Equipment Description MAIN STM LINE OUTBRD ISOL VLV B		
Note:	Note:	

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Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL1-003
Seisific Walkdown Checklist (SWC) SWELT-003
Equipment ID No. <u>B21-RVF041A</u> Equip. Class <sup>1</sup> _7
Equipment Description MAIN STM LINE A PRESS RELIEF VLV
Location: Bldg. <u>DW</u> Floor El. <u>125</u> Room, Area <u>9204</u>
Manufacturer, Model, Etc. (optional but recommended) Crosby Model HB-65-DF
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
Is the anchorage free of bent, broken, missing or loose hardware?  Y □ N□ U□ N/A□  Replaced valve installed with all good hardware
3. Is the anchorage free of corrosion that is more than mild surface oxidation?  Very minor corrosion noted on main steam valve.  Y□ N□ U□ N/A□
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line valve. Bolted to flange connection</li> </ul>

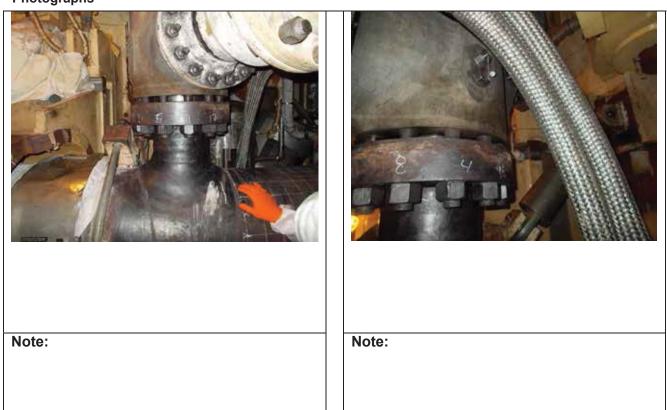
<sup>&</sup>lt;sup>1</sup> Enter the equipment class <u>name</u> from Appendix B: Classes of Equipment.

	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-003</u>	
Equipment ID No. <u>B21-RVF041A</u> Equip. Class_7	
Equipment Description MAIN STM LINE A PRESS RELIEF 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.) In line valve	Y□ N□ U□ N/A⊠
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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□	
Seismic Walkdown Checklist (SWC) <u>SWEL1-003</u>		
Equipment ID No. <u>B21-RVF041A</u> Equip. Class 7		
Equipment Description MAIN STM LINE A PRESS RELIEF 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□	
<u>Comments</u> (Additional pages may be added as necessary)		
Walkdown performed during RF-17 Valve 041D replaced with 041A due to field accessibility		
valve 041D replaced with 041A due to held accessibility		
J. E. Clank Boug		
Evaluated by: <u>J. Dunkelberg</u>	_ Date: <u>2/24/13</u>	
7	0/04/40	
D. Bassi	<u>2/24/13</u>	

Seismic Walkdown Checklist (SWC) <u>SWEL1-003</u>	tatus: Y⊠ N□ U□
Ocisinic Walkdown Officeklist (OWO)	
Equipment ID No. <u>B21-RVF041A</u> Equip. Class 7	
Equipment Description MAIN STM LINE A PRESS RELIEF VLV	
Photographs	



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Seismic Walkdown Checklist (SWC) <u>SWEL1-0</u>	Status: Y⊠ N□ U□	
Equipment ID No. <u>B21-RVF041A</u> Equip. Class		
Equipment Description MAIN STM LINE A PRESS RELIEF VLV		
Note:	Note:	

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Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL1-004		
Equipment ID No. <u>B21-RVF047C</u> Equip. Class <sup>1</sup> _7		
Equipment Description MAIN STM LINE C AUTO DEPRESSURIZATION SYS PRESS RELIEF VLV		
Location: Bldg. <u>DW</u> Floor El. <u>125</u> Room, Area <u>9204</u>		
Manufacturer, Model, Etc. (optional but recommended) Crosby Model HB-65-DF		
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		
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>		
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>N □ U □ N/A □</li> <li>No missing hardware, no bent broken, missing or loose items</li> </ol>		
3. Is the anchorage free of corrosion that is more than mild surface Y N U N/A Oxidation?  Only mild corrosion noted		
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>In-line</li> </ul>		

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

Soismic Walkdo	own Checklist (SWC)	SWEI 1 004	Status: Y⊠ N□ U□
Equipment ID No.		Equip. Class 7	
		C AUTO DEPRESSURIZATION SYS	PRESS RELIEF VLV
(Note: This		sistent with plant documentation? the item is one of the 50% for which tion is required.)	Y□ N□ U□ N/A⊠
	ne above anchorage eva adverse seismic conditic	aluations, is the anchorage free of ons?	Y⊠ N□ U□
Interaction Effects	<u>s</u>		
7. Are soft tar	gets free from impact by	nearby equipment or structures?	Y⊠ N□ U□ N/A□
		on systems, ceiling tiles and lighting, to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached	d lines have adequate fl	exibility to avoid damage?	Y⊠ N□ U□ N/A□
	ne above seismic interac ly adverse seismic intera	ction evaluations, is equipment free action effects?	Y⊠ N□ U□

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	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-004</u>	
Equipment ID No. <u>B21-RVF047C</u> Equip. Class <u>7</u>	
Equipment Description MAIN STM LINE C AUTO DEPRESSURIZATION SYS	PRESS RELIEF 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)	
Walkdown performed in RF-17	
Valve 047B not accessible, inspected 047C	
J. E. Glanh / Song	
Evaluated by: <u>J. Dunkelberg</u>	_ Date: <u>2/24/13</u>
7)., 73.	
D. Bassi	2/24/13

Seismic Walkdown Checklist (SWC) <u>SWEL1-004</u>	Status: Y⊠ N□ U□
Equipment ID No. <u>B21-RVF047C</u> Equip. Class <u>7</u>	
Equipment Description MAIN STM LINE C AUTO DEPRESSURIZATION	ON SYS PRESS RELIEF VLV

## **Photographs**







Note:

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Seismic Walkdown Checklist (SWC) SWEL1-	Status: Y N U	
Seisiffic Walkdown Checklist (SWC)SWELT	· <u>·······</u>	
Equipment ID No. <u>B21-RVF047C</u> Equip. Cla	ss_7	
Equipment Description MAIN STM LINE C AUTO DEPRESSURIZATION SYS PRESS RELIEF VLV		
Note:	Note:	

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Seismic Walkdown Checklist (SWC) SWEL1-026	Ш
Equipment ID No. <u>E22-PC001</u> Equip. Class <sup>1</sup> 6	
Equipment Description HPCS MOTOR FEEDER	
Location: Bldg. AB Floor El. 070 Room, Area 6002	_
Manufacturer, Model, Etc. (optional but recommended) Byron Jackson Model 28DX-18CKXLH-15STG.VI	<u>M</u> 7
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	
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>	
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ No bent, broken, missing hardware	
3. Is the anchorage free of corrosion that is more than mild surface Y⊠ N□ U□ N/A□ oxidation?  Anchorage is free of corrosion	
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A</li></ul>	

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-026</u>	
Equipment ID No. <u>E22-PC001</u> Equip. Class 6	
Equipment Description HPCS MOTOR FEEDER	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) <u>SWEL1-026</u>	
Equipment ID No. <u>E22-PC001</u> Equip. Class 6	
Equipment Description HPCS MOTOR 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□
<u>Comments</u> (Additional pages may be added as necessary)	
Walkdown performed during RF-17	
Evaluated by: <u>D. Bassi</u>	Date: 2/23/13
J. E. Affanholderg	
J. Dunkelberg	2/23/13

Seismic Walkdown Checklist (SWC)	SWEL1-026	Status: Y⊠ N□ U□
Equipment ID No. <u>E22-PC001</u>	Equip. Class 6	
Equipment Description <u>HPCS MOTOR FE</u>	EDER	

## **Photographs**







Note:

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Page 1 of 4 Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWC- SWEL1-036
Equipment ID No. <u>E51-PNLC002</u> Equip. Class <sup>1</sup> 20
Equipment Description RCIC TURB GOVERNOR PNL
Location: Bldg. <u>CB</u> Floor El. <u>70</u> Room, Area <u>6112</u>
Manufacturer, Model, Etc. (optional but recommended) <u>Hoffman Model A-24P20</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ No bent, broken, missing hardware
<ol> <li>Is the anchorage free of corrosion that is more than mild surface y N U N/A U N/A No corrosion</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks in wall</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) <u>SWEL1-036</u>	
Equipment ID No. <u>E51-PNLC002</u> Equip. Class <u>20</u>	
Equipment Description RCIC TURB GOVERNOR PNL	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>Anchorage verified in accordance with EE-450AM</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Seismic Walkdown Checklist (SWC)SWEL1-036	Status: Y⊠ N⊡ U⊡
Equipment ID No. <u>E51-PNLC002</u> Equip. Class <u>20</u>	
Equipment Description RCIC TURB GOVERNOR PNL	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Walkdown performed during RF-17	
Evaluated by: <u>D. Bassi</u>	_ Date: <u>2/24/13</u>
J. R. Clark Bourg	
J. Dunkelberg	2/24/13

Seismic Walkdown Checklist (SWC)S	Status: Y⊠ N⊡ U⊡ WEL1-036
Equipment ID No. <u>E51-PNLC002</u> Equip. Class	ss_20
Equipment Description RCIC TURB GOVERNOR PN	
Photographs	
Note:	Note:

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PAGE 1 OF 4 Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-060
Equipment ID No. <u>ENB-PNL02A</u> Equip. Class <sup>1</sup> 14
Equipment Description N/A
Location: Bldg. <u>CB</u> Floor El. <u>136</u> Room, Area <u>1310</u>
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
2. Is the anchorage free of bent, broken, missing or loose hardware? Y∑ N☐ U☐ N/A☐ Anchorage observed with use of mirror to see behind box/panel. No issues observed
3. Is the anchorage free of corrosion that is more than mild surface oxidation?  Location in Main Control Rm, controlled environment, no corrosion noted  Y⊠ N□ U□ N/A□
4. Is the anchorage free of visible cracks in the concrete near the anchors?  Y⊠ N□ U□ N/A□ anchors?
Pnl mounted to horizontal channel(3 total) that are mounted to embedded vertical strut in wall. No cracks observed.

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC) SWEL1-060	Status: Y⊠ N∐ U∐
Equipment ID No. ENB-PNL02A Equip. Class 14	
Equipment Description N/A	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  Ceiling tiles in MCR are seismically supported	Y⊠ N□ U□ N/A□
<ol> <li>Do attached lines have adequate flexibility to avoid damage?</li> <li>Cover plate below bottom of panel opened to allow observation of bottom entry cables, SAT, sufficient flex observed.</li> </ol>	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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Seismic Walkdown Checklist (SWC) SWEL1-060	Status: Y⊠ N□ U□
Equipment ID No. <u>ENB-PNL02A</u> Equip. Class 14	
Equipment Description <u>N/A</u>	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Inspection completed during RF-17, when electrical support was available	le.
Evaluated by: J. Dunkelberg	_ Date: <u>2/24/13</u>
J. 3.	2/2///5
D. Bassi	2/24/13

Seismic Walkdown Checklist (SWC) SWEL1-060	Status: Y⊠ N□ U□
Equipment ID No. <u>ENB-PNL02A</u> Equip. Class 14	
Equipment Description N/A	
Photographs	
Note:	re:

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Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL1-100
Equipment ID No. <u>SWP-FN1B</u> Equip. Class¹_9
Equipment Description STANDBY COOLING TWR 1
Location: Bldg. SCT Floor El. 137 Room, Area 0200
Manufacturer, Model, Etc. (optional but recommended) Joy Mfg Model 84-26-870
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y N N N N N N N N N N N N N N N N N N</li></ol>
2. Is the anchorage free of bent, broken, missing or loose hardware? Y∑ N☐ U☐ N/A☐ No bent, broken, missing hardware
<ol> <li>Is the anchorage free of corrosion that is more than mild surface Y N U N/A U N/A Oxidation?</li> <li>Only mild surface oxidation</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ □ □ N/A□ N/A□</li> <li>No cracks in concrete</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

	Status: Y⊠ N∐ U∐
Seismic Walkdown Checklist (SWC) SWEL1-100	
Equipment ID No. <u>SWP-FN1B</u> Equip. Class 9	
Equipment Description STANDBY COOLING TWR 1	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>Anchorage verified in accordance with dwg 0232.530-087-021</li> </ol>	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	
Interaction Effects  7. Are soft targets free from impact by nearby equipment or structures?	Y⊠ N□ U□ N/A□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

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	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-100	
Equipment ID No. <u>SWP-FN1B</u> Equip. Class 9	
Equipment Description STANDBY COOLING TWR 1	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Walkdown performed before RF-17	
Evaluated by: D. Bassi	Date: <u>2/13/13</u>
J. P. Glunh / Song	
J. Dunkelberg	2/13/13

Seismic Walkdown Checklist (SWC)		Status: Y⊠ N□ U□
Equipment ID No. <u>SWP-FN1B</u>	Equip. Class 9	
Equipment Description STANDBY COOLIN	NG TWR 1	

## **Photographs**





Note:

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Seismic Walkdown Checklist (SWC)	SWEL1-100	Status: Y⊠ N□ U□
Equipment ID No. <u>SWP-FN1B</u>		
Equipment Description STANDBY COOL	ING TWR 1	
Note:	Note:	

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PAGE 1 OF 5
Status: Y N U U Seismic Walkdown Checklist (SWC) SWEL1-101
Equipment ID No. SWP-FN1J Equip. Class 9
Equipment Description STANDBY COOLING TOWER FAN FN1J
Location: Bldg. SCT Floor El. 137 Room, Area 0200
Manufacturer, Model, Etc. (optional but recommended) Joy Mfg Model 84-26-870
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y∑ N☐ of the 50% of SWEL items requiring such verification)?</li> </ol>
2. Is the anchorage free of bent, broken, missing or loose hardware? Y∑ N☐ U☐ N/A☐ No missing or bent hardware
3. Is the anchorage free of corrosion that is more than mild surface Y∑ N☐ U☐ N/A☐ oxidation?  No rust observed
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No concrete cracks observed</li> </ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

	Status: Y⊠ N⊟ U⊟
Seismic Walkdown Checklist (SWC) SWEL1-101	
Equipment ID No. <u>SWP-FN1J</u> Equip. Class 9	
Equipment Description STANDBY COOLING TOWER FAN FN1J	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>Anchorage verified in accordance with dwg 0232.530-087-021</li> </ol>	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Concrete room, only conduits on walls	Y□ N□ U□ N/A⊠
9. Do attached lines have adequate flexibility to avoid damage?  Flex conduit installed at fan	Y⊠ 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) SWEL1-101	
Equipment ID No. SWP-FN1J Equip. Class 9	
Equipment Description STANDBY COOLING TOWER FAN FN1J	
Other Adverse Conditions	
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Walkdown performed before RF-17	
Evaluated by: J. Dunkelberg	Date: 2-4-13
23	
D. Bassi	<u>2-4-13</u>

Seismic Walkdown Checklist (SWC)	SWEL1-101	Status: Y⊠ N□ U□
Equipment ID No. <u>SWP-FN1J</u> Equip. Cl	ass <u>9</u>	
Equipment Description STANDBY COOLING TOWE	R FAN FN1J	
Photographs		
Note:	Note:	_

PAGE 5 OF 5

Seismic Walkdown Checklist (SWC)	SWEL1-101	Status: Y⊠ N□ U□
Equipment ID No. <u>SWP-FN1J</u>		
Equipment Description STANDBY COOLI	NG TOWER FAN FN1J	
Note:	Note:	
NOTE.	Note.	

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Page 1 of 5 Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-102
Equipment ID No. <u>SWP-FN1N</u> Equip. Class <sup>1</sup> 9
Equipment Description STANDBY COOLING TOWER FAN FN1N
Location: Bldg. SCT Floor El. 137 Room, Area 0200
Manufacturer, Model, Etc. (optional but recommended) Joy Mfg Model 84-26-870
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y∑ N☐ of the 50% of SWEL items requiring such verification)?</li> </ol>
2. Is the anchorage free of bent, broken, missing or loose hardware? Y⊠ N□ U□ N/A□ No missing, bent, broken hardware
3. Is the anchorage free of corrosion that is more than mild surface Y∑ N☐ U☐ N/A☐ oxidation?  No more than surface oxidation
<ol> <li>Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>No cracks seen in Conc.</li> </ol>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

Seismic Walkdown Checklist (SWC)SWEL1-102	Status: Y⊠ N□ U□
Equipment ID No. <u>SWP-FN1N</u> Equip. Class 9	
Equipment Description STANDBY COOLING TOWER FAN FN1N	
<ol> <li>Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)</li> <li>Anchorage verified in accordance with dwg 0232.530-087-021</li> </ol>	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? Conc room/ceiling	Y□ N□ U□ N/A⊠
9. Do attached lines have adequate flexibility to avoid damage?  Flex conduits installed to fan	Y⊠ 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) SWEL1-102	
Equipment ID No. <u>SWP-FN1N</u> Equip. Class 9	
Equipment Description STANDBY COOLING TOWER FAN FN1N	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Minor surface rust noted on few internal components, coatings in good co Walkdown performed before RF-17	ondition
Evaluated by: <u>D. Bassi</u>	Date: <u>2-4-13</u>
J. Dunkelberg	<u>2-4-13</u>

PAGE 4 OF 5

				Otatua, VM NO UD
Seismic Walkdow	n Checklist (SWC)		SWEL1-102	Status: Y⊠ N⊡ U⊡ —
Equipment ID No.	SWP-FN1N	Equip. Cla	ass <u>9</u>	
Equipment Description	on STANDBY COOLI	NG TOWE	R FAN FN1N	
Photographs				
Noto:			Noto:	
Note:			Note:	

PAGE 5 OF 5

Seismic Walkdo	wn Checklist (SV	VC) <u>S</u>	WEL1-102	Status:	Y⊠ N□ U□
Equipment ID No.	SWP-FN1N	Equip. Cla	ss 9		
Equipment Descrip	tion <u>STANDBY CC</u>	OOLING TOWER	R FAN FN1N		

Note:



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Page 1 of 4  Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC)SWEL1-103
Equipment ID No. <u>SWP-FN1V</u> Equip. Class¹ 9
Equipment Description STANDBY COOLING TOWER FAN 1V
Location: Bldg. SCT Floor El. 137 Room, Area 0200
Manufacturer, Model, Etc. (optional but recommended) Joy Mfg Model 84-26-870
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
<ol> <li>Is the anchorage configuration verification required (i.e., is the item one Y⊠ N□ of the 50% of SWEL items requiring such verification)?</li> </ol>
<ol> <li>Is the anchorage free of bent, broken, missing or loose hardware?</li> <li>Y∑ N☐ U☐ N/A☐</li> <li>No bent, broken, missing hardware</li> </ol>
<ol> <li>Is the anchorage free of corrosion that is more than mild surface oxidation?</li> <li>Only mild corrosion</li> </ol>
<ul> <li>4. Is the anchorage free of visible cracks in the concrete near the anchors?</li> <li>N□ U□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A□ N/A</li></ul>

 $<sup>^{\</sup>mbox{\tiny 1}}$  Enter the equipment class  $\underline{\mbox{name}}$  from Appendix B: Classes of Equipment.

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Sciencia Walkdown Chacklist (SWC) SWEL4 402	Status: Y⊠ N□ U□
Seismic Walkdown Checklist (SWC) SWEL1-103	
Equipment ID No. <u>SWP-FN1V</u> Equip. Class 9	
Equipment Description STANDBY COOLING TOWER FAN 1V	
5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Anchorage verified in accordance with dwg 0232.530-087-021	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□
Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?	Y⊠ N□ U□ N/A□
9. Do attached lines have adequate flexibility to avoid damage?	Y⊠ N□ U□ N/A□
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?	Y⊠ N□ U□

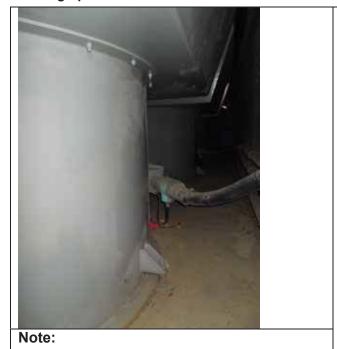
PAGE 3 OF 4

Colomic Wolfdown Chaptriot (CWC) CWEL 4 402	Status: Y⊠ N⊡ U⊡
Seismic Walkdown Checklist (SWC)SWEL1-103	
Equipment ID No. <u>SWP-FN1V</u> Equip. Class 9	
Equipment Description STANDBY COOLING TOWER FAN 1V	
Other Adverse Conditions	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Walkdown performed before RF-17	
Evaluated by: <u>D. Bassi</u>	Date: <u>2/13/13</u>
J. E. Alenholderg	
J. Dunkelberg	2/13/13

PAGE 4 OF 4

Seismic Walkdown Checklist (SWC)	SWEL1-103	Status: Y	⊠ N□ U□
Equipment ID No. SWP-FN1V	Equip. Class 9		
Equipment Description STANDBY COOLI	NG TOWER FAN 1V		

#### **Photographs**





# Attachment K Deferred Area Walk-By Checklists (AWC)

Table K-1 below shows which Seismic Walkdown Checklist(s) (SWC) are on each Area Walkby Checklist (AWC).

Table K-1

AWC#	SWEL #
1001	1-001, 1-003, 1-004
1002	1-002
1026	1-026
1100	1-100
1101	1-101
1102	1-102
1103	1-103

#### Sheet 1 of 3

	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-100</u>	<u>1</u>
Location: Bldg. <u>DW</u> Floor El. <u>130</u>	Room, Area <sup>1</sup> 9303 and 9204
SWEL Components: SWEL1-001, SWEL1-0	03, SWEL1-004
Instructions for Completing Checklist	
	s of the Area Walk-By near one or more SWEL items. The se used to record the results of judgments and findings. sklist for documenting other comments.
Does anchorage of equipment in the area a potentially adverse seismic conditions (if visopening cabinets)?	
Does anchorage of equipment in the area a significant degraded conditions?	ppear to be free of Y⊠ N□ U□ N/A□
<ol> <li>Based on a visual inspection from the floor, raceways and HVAC ducting appear to be a seismic conditions (e.g., condition of supportion conditions of cable trays appear to be inside</li> </ol>	ree of potentially adverse rts is adequate and fill

 $<sup>^{1}</sup>$  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

Area \	Wa	lk-By	Checklis	st (AWC)	AV	VC-1001	<u>1_</u>			St	atus:	Y⊠	N∐	U
Locatio	on:	Bldg.	DW	Floor	El. <u>1</u> 3	30	_ Room,	Area	9303 and 920	4				
4.	spa		ppear that teractions ing)?							Υ⊠	N U	I □U	N/A	
5.			ppear that ons that co						eismic	Υ⊠	N U	J	N/A□	
6.			ppear that ons that co					erse se	eismic	Υ⊠	N U	l ∐u	N/A□	
7.	into po	eractio		ated with h	ousek	ceeping p	oractices,	, storaç		Υ⊠	N U	J	N/A□	

# Sheet 3 of 3

Area Walk-By Checklist (AWC)AWC-1001_	Status: Y⊠ N□ U□
Location: Bldg. <u>DW</u> Floor El. <u>130</u> Room, Area <u>9303 and 920</u>	04
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?  Output  Description:	Y⊠ N□ U□
Comments (Additional pages may be added as necessary)	
Walk-by performed in RF-17 (Drywell) This Walk-by included the all DW elevations except the 86' elev.	
This Waik-by included the all DW elevations except the 60 elev.	
Evaluated by: J. Dunkelberg	Date: 2/24/13
1):13:	
D. Bassi	2/24/13

#### Sheet 1 of 4

	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1002</u>	
Location: Bldg. MST Floor El. 130 Room, Area <sup>1</sup> 8205	
SWEL Components: SWEL1-002	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By nesspace below each of the following questions may be used to record the result Additional space is provided at the end of this checklist for documenting oth	ults of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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

Area \	Walk-By	/ Checklist	(AWC) <u>A</u>	WC-1002	_		Status:	Y⊠ N□ U□
Location	on: Bldg.	<u>MST</u>	_ Floor El.	130	Room, Area	8205		
4.		nteractions w			ally adverse s ne area (e.g., o		Y⊠ N□ U	J□ N/A□
5.	Does it a interaction	appear that th	ne area is fre d cause flood	e of potenti ding or spra	ally adverse s y in the area?	eismic	Y⊠ N□ L	J□ N/A□
6.		appear that th			ally adverse s a?	eismic	Y⊠ N□ U	J□ N/A□
7.	interaction	ons associate equipment, a	ed with house	ekeeping pr	ally adverse s ractices, storaç ons (e.g., scaff	ge of	Y⊠ N□ L	J□ N/A□

# Sheet 3 of 4

	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1002</u>	
Location: Bldg. MST Floor El. 130 Room, Area 8205	
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 Walkby performed during RF-17 Area observed from the MSIV platform only, due to RP considerations.	
J. P. Clanholderg	
Evaluated by: <u>J. Dunkelberg</u>	Date: 2/24/13
7.3	
D. Bassi	2/24/13

# Sheet 4 of 4

Area Walk-By Checklist (AWC) <u>AWC-1002</u>	Status: Y⊠ N□ U□
Location: Bldg. MST Floor El. 130	Room, Area <u>8205</u>
SWEL Components: <u>SWEL1-002</u>	
Photographs	
Note:	Note:

#### Sheet 1 of 5

		Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) A	WC-1026	
Location: Bldg. AB Floor El.	070 Room, Area <sup>1</sup> 6002	
SWEL Components: SWEL1-026		
Instructions for Completing Checklist		
This checklist may be used to document space below each of the following question Additional space is provided at the end of	ons may be used to record the results	s of judgments and findings.
Does anchorage of equipment in potentially adverse seismic condit opening cabinets)?	the area appear to be free of tions (if visible without necessarily	Y⊠ N□ U□ N/A□
Does anchorage of equipment in significant degraded conditions?	the area appear to be free of	Y⊠ N□ U□ N/A□
<ol> <li>Based on a visual inspection from raceways and HVAC ducting appeared seismic conditions (e.g., condition conditions of cable trays appear to</li> </ol>	ear to be free of potentially adverse of supports is adequate and fill	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

Area '	Walk-By	Checklist (	AWC)	AWC-1026	_		Status:	Y⊠ N□ U	
Locati	on: Bldg.	AB	Floor El.	070	Room, Area	6002			_
4.	Does it a spatial in and light	iteractions wi	e area is fr h other eq	ee of potenti uipment in th	ally adverse s le area (e.g., d	eismic ceiling tiles	Y⊠ N□ l	N/A□	
5.					ally adverse so y in the area?	eismic	Y⊠ N□ U	J□ N/A□	
6.		appear that th ons that could			ally adverse s a?	eismic	Y⊠ N□ l	J□ N/A□	
7.	interaction	ons associate equipment, a	d with hous	sekeeping pr	ally adverse so actices, storag ons (e.g., scaff	ge of	Y⊠ N□ U	J□ N/A□	

# Sheet 3 of 5

	Status: Y⊠ N⊟ U⊟							
Area Walk-By Checklist (AWC) <u>AWC-1026</u>								
Location: Bldg. AB Floor El. 070 Room, Area 6002								
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 Walkby performed in RF-17	Area Walkby performed in RF-17							
Evaluated by: D. Bassi	Date: 2/23/13							
0								
J. E. Clink Boug								
.I. Dunkelbera	2/23/13							

#### Sheet 4 of 5

Area Walk-By Checklist (A	AWC) AWC-1026	Status: Y⊠ N□ U□
Location: Bldg. AB		Room, Area <u>6002</u>
SWEL Components: SWE		
Photographs		
Note:		Note:

# Sheet 5 of 5

Area Walk-By Checklist (AWC) <u>AWC-1026</u>	Y⊠ N	N∏ U	J	
Location: Bldg. AB Floor El. 070 Room, Area 6002				_
SWEL Components: SWEL1-026				
Note: Note:				

#### Sheet 1 of 5

	Status: Y⊠ N⊟ U⊟
Area Walk-By Checklist (AWC) <u>AWC-1100</u>	
Location: Bldg. SCT Floor El. 137 Room, Area¹ 0200	
SWEL Components: <u>SWEL1-100</u>	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near of space below each of the following questions may be used to record the results Additional space is provided at the end of this checklist for documenting other of the control of the co	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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

Area Walk-By Checklist (AWC) <u>AWC-1100</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>SCT</u> Floor El. <u>137</u> Room, Area <u>0200</u>	
4. Does it appear that the area is 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? The area is a cooling tower with water present during normal operation such that any seismically-induced damage would not pose a credible flooding threat.	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

Area Walk-By Checklist (AWC)AWC-1100_	Status: Y⊠ N□ U□
Location: Bldg. SCT Floor El. 137 Room, Area 0200	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Paint Flaking seen on FN1F – top coat only. Primer is in excellent consissue  Area Walkby performed before RF-17  Walk-by was conducted for the Southern fan room.	dition, no rust. Not a seismic
Evaluated by: <u>D. Bassi</u>	Date: 2/13/13
J. E. Glinh / Song	
J. Dunkelberg	2/13/13

# Sheet 4 of 5

Area Walk-By	Checklist (A	AWC)/	AWC-1100	-		Status: `	Y⊠ N□ U□
Location: Bldg.	SCT	Floor El.	137	Room, Area	0200		

SWEL Components: SWEL1-100

#### **Photographs**







#### Sheet 5 of 5

Area Walk-By Checklist (AWC) <u>AWC-1100</u>		Status:	Y⊠ N□ U□
Area wark-by oncernist (Awo) Avo-1100	-		
Location: Bldg. <u>SCT</u> Floor El. <u>137</u>	Room, Area <u>0200</u>		
SWEL Components: SWEL1-100			
Note:	Note:		

#### Sheet 1 of 4

	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1101</u>	
Location: Bldg. SCT Floor El. 137 Room, Area <sup>1</sup> 0200	
SWEL Components: SWEL1-101	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near on space below each of the following questions may be used to record the results o Additional space is provided at the end of this checklist for documenting other co	f judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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□		
Y⊠ N□ U□ N/A□		
Y□ N□ U□ N/A⊠		
Y⊠ N□ U□ N/A□		
Y⊠ N□ U□ N/A□		

# Sheet 3 of 4

Area Walk By Chacklist (AWC) AWC 1101	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1101</u>	
Location: Bldg. SCT Floor El. 137 Room, Area 0200	
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 Walkby performed before RF-17 Walk-by was conducted for the Eastern fan room.	
Evaluated by: D. Bassi	Date: <u>2-4-13</u>
J. E. Clank / Song	
J. Dunkelberg	2-4-13

# Sheet 4 of 4

Area Walk-By Checklist (AWC) <u>AWC-1101</u>	Status: Y⊠ N□ U□
Location: Bldg. SCT Floor El. 137	Room, Area <u>0200</u>
SWEL Components: SWEL1-101	
Photographs	
Note:	Note:

#### Sheet 1 of 4

	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1102</u>	
Location: Bldg. SCT Floor El. 137 Room, Area¹ 0200	
SWEL Components: SWEL1-102	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near one space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other cor	judgments and findings.
<ol> <li>Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?</li> <li>Light surface rust on trolley</li> </ol>	Y⊠ N□ U□ N/A□
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)? Conduits adequately supported	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

Area '	Walk-By	Checklist (	AWC)	AWC-1102	2_		Status: Y∑	N U
Location	on: Bldg.	SCT	Floor El.	137	_ Room, Area	0200		
4.		nteractions wit			itially adverse so the area (e.g., c		Y⊠ N□ U□	N/A
5.	interaction The area	ons that could a is a cooling at any seismic	cause floo tower with	oding or spr water prese	ntially adverse so ray in the area? ent during norm would not pose	al operation	Y□ N□ U□	N/A⊠
6.		appear that the			itially adverse so ea?	eismic	Y⊠ N□ U□	N/A
7.	interaction	ons associate equipment, a	d with hou	sekeeping p	ntially adverse so practices, storaç ions (e.g., scaff	ge of	Y⊠ N□ U□	N/A

# Sheet 3 of 4

	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1102</u>	
Location: Bldg. SCT Floor El. 137 Room, Area 0200	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Area Walkby performed before RF-17 Walk-by was conducted for the Northern fan room.	
Evaluated by: <u>D. Bassi</u>	Date: <i>2-4-13</i>
J. P. Clanholderg	
J. Dunkelberg	2-4-13

# Sheet 4 of 4

Area Walk-By Checklist (AWC) <u>AWC-1102</u>	Status: Y⊠ N□ U□
Location: Bldg. <u>SCT</u> Floor El. <u>137</u>	Room, Area <u>0200</u>
SWEL Components: <u>SWEL1-102</u>	
Photographs	
Note:	Note:

#### Sheet 1 of 4

	Status: Y⊠ N□ U□
Area Walk-By Checklist (AWC) <u>AWC-1103</u>	
Location: Bldg. SCT Floor El. 137 Room, Area <sup>1</sup> 0200	
SWEL Components: SWEL1-103	
Instructions for Completing Checklist	
This checklist may be used to document the results of the Area Walk-By near or space below each of the following questions may be used to record the results of Additional space is provided at the end of this checklist for documenting other control of the contro	of judgments and findings.
Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)?	Y⊠ N□ U□ N/A□
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

Area Walk-By Checklist (AWC) <u>AWC-1103</u>						Status: Y⊠ N□ U□			
Location	on:	Bldg.	SCT	_ Floor El.	137	Room, Area	0200		
4.	spa	es it a itial in I lighti	teractions wi	ne area is fr ith other eq	ree of potenti uipment in th	ially adverse s ne area (e.g., o	eismic eiling tiles	Y⊠ N□ U□ N/A□	
5.	inte The suc	raction e area ch that	ons that could is a cooling	d cause floo tower with	oding or spra water prese	ially adverse s ay in the area? nt during norm yould not pose	al operation	Y□ N□ U□ N/A⊠	]
6.					ree of potenti re in the are	ially adverse s a?	eismic	Y⊠ N□ U□ N/A□	]
7.	inte por	ractio	ons associate equipment, a	ed with hou	sekeeping pi	ially adverse s ractices, storaç ons (e.g., scaff	ge of	Y⊠ N□ U□ N/A□	]

# Sheet 3 of 4

Area Walk-By Checklist (AWC) <u>AWC-1103</u>	Status: Y⊠ N□ U□
Location: Bldg. SCT Floor El. 137 Room, Area 0200	
Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area?	Y⊠ N□ U□
<u>Comments</u> (Additional pages may be added as necessary)	
Area Walkby performed before RF-17 Walk-by was conducted for the Western fan room.	
Evaluated by: <u>D. Bassi</u>	Date: 2/13/13
J. P. Clanholderg	_ Bate. <u>B10/10</u>
J. Dunkelberg	2/13/13

# Sheet 4 of 4

Area Walk-By Checklist (AWC) <u>AWC-1103</u>	Status: Y⊠ N□ U□
Location: Bldg. SCT Floor El. 137 Room, Area 0200	
SWEL Components: <u>SWEL1-103</u>	

