ENCLOSURE to

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WATERFORD 3 SEISMIC WALKDOWN REPORT REVISION 1

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Waterford Steam Electric Station Unit 3 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], which requested information from all licensees to support the NRC staff's evaluation of several of the NTTF recommendations. To support NTTF Recommendation 2.3, 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 Waterford Steam Electric Station Unit 3 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).

2.0 SEISMIC LICENSING BASIS SUMMARY

Waterford Steam Electric Station Unit 3 (WSES-3) is located on the west (right descending) bank of the Mississippi River in St. Charles Parish, near the town of Taft, Louisiana. The Nuclear Steam Supply System (NSSS) is a pressurized water reactor (PWR) designed by Combustion Engineering Incorporated. The WSES-3 Facility Operating License was issued on March 16, 1985, and is currently rated at 3716 MWt power [Ref. 3]. This section summarizes the seismic licensing basis of structures, systems and components (SSCs) at WSES-3 which bound the context of the NTTF 2.3 Seismic Walkdown program.

2.1 SAFE SHUTDOWN EARTHQUAKE (SSE)

The selection of the SSE is based on a hypothetical earthquake with an epicentral intensity of VI MM occurring adjacent to the site. According to the most recent and acceptable intensity-acceleration relationship by Trifunac-Brady the intensity VI MM corresponds to a horizontal surface acceleration of 0.06g. In order to comply with the minimum accepted acceleration as stipulated by 10CFR100, Appendix A, WSES-3 was designed for a maximum horizontal ground surface acceleration of 0.10g. This very conservative surface acceleration is double the maximum acceleration appropriate for the maximum earthquake which has occurred in the site's tectonic province during the past 250 years. The peak vertical acceleration for the postulated SSE is 2/3 peak horizontal acceleration or 0.067g.

2.2 DESIGN CODES, STANDARDS, AND METHODS

Principle structures, systems, and components (SSCs) which may either serve to prevent accidents or to mitigate their consequences are designed and are erected in accordance with applicable codes to withstand any deleterious natural phenomena which could be reasonably assumed to occur at the site during the lifetime of the plant. Redundancy is provided in the reactor protective and safety feature systems so that no single failure of an active component of the system would prevent action necessary to avoid an unsafe condition.

Seismic Category I defines SSCs as those components (1) whose failure could cause uncontrolled release of radioactivity, (2) that are essential for safe reactor shutdown and the immediate and long-term operation following a Design Basis Accident, or (3) that are essential for a safe and orderly shutdown of the Nuclear Steam Supply System.

<u>Response Spectra</u>

The design response spectra used in the plant design differ from the design response spectra recommended in NRC Regulatory Guide 1.60, Design Response Spectra for Seismic Design of Nuclear Power Plants, Revision 1 December 1973. The regulatory guide response spectra have slightly higher values in general. Use of Regulatory Guide 1.60 permits utilization of

damping values indicated in Regulatory Guide 1.61, Damping Values for Seismic Design of Nuclear Power Plants, October 1973. These damping values are equal or greater than the values utilized for WSES-3 plant design. By utilizing lower damping values in the WSES-3 design, as compared to the damping values of Regulatory Guide 1.61, the analysis and design of WSES-3 compensates for any differences.

Structures

The seismic Category I structures consist of the following:

a) Reactor Building (comprising a free standing steel containment vessel, a containment internal structure and a reinforced concrete Shield).

b) Reactor Auxiliary Building

c) Fuel Handling Building

d) Component Cooling Water System Structure

Subsystems and Their Supports

The following list comes from WSES-FSAR-UNIT-3 Table 3.2-1. All systems that have components classified as Seismic Category I will be listed here. For a more detailed version of specific components classified as Seismic Category I, see Table 3.2-1.

- Reactor Coolant System
- Safety Injection System
- Shutdown Cooling System
- Refueling Water Level Indicating System
- Chemical and Volume Control System
- Containment Spray System
- Waste Management System
- Component Cooling Water System
- Sampling System
- Containment Cooling System
- Essential Services Chilled Water System
- Fuel Handling System
- Spent Fuel Pool System
- Main Steam and Feedwater System
- Emergency Feedwater System
- Compressed Air Systems
- Containment Isolation System
- Emergency Diesel Generator System
- Control Room Air Conditioning System
- RAB Cable Vault and Switchgear Areas Ventilation System

- RAB H&V Equipment Room Ventilation System
- FHB Ventilation System
- Containment Atmospheric Release System
- Shield Building Ventilation System
- Controlled Ventilation Area System
- Reactor Cavity Cooling System
- Miscellaneous HVAC Equipment
- Combustible Gas Control
- Containment Vacuum Relief Actuation System
- Containment Pressure Indication System
- Containment Water Level Indication System
- Electrical Systems and Equipment
- Radiation Monitoring
- Accident Radiation Monitors
- Inadequate Core Cooling Instrumentation
- Miscellaneous

Codes and Industry Standards

Seismic Class I structures are generally proportioned to maintain elastic behavior when subjected to various combinations of dead loads, thermal loads, accident loads, seismic and tornado loads.

Safety-related structural steel is designed in accordance with American Institute of Steel Construction (AISC), Manual of Steel Construction, 7th Edition.

Safety-related concrete is designed in accordance with American Concrete Institute (ACI-308-63), Building Code Requirements for Reinforced Concrete with the exception that ACI 318-71 is used for design of reinforcing steel splices.

Safety-related welds are designed in accordance with American Welding Society (AWS) D1.1-72, AWS Structural Welding Steel.

IEEE-323-1971, General Guide for Type Test of Class I Electric Equipment for Nuclear Power Generating Stations.

IEEE Standard 344-1971, IEEE Recommended Practice for Seismic Qualification of Class IE Equipment for Nuclear Power Generating Stations, was used in qualifying electrical equipment. Some equipment was qualified in accordance with IEEE 344-1975.

Piping systems, pumps, valves, heat exchangers and pressure vessels are designed to the following codes and industrial standards. Note that various pieces of equipment were

designed by different code years at WSES-3. Items were purchased to code years and addenda as specified in WSES-3 specifications

- ASME Boiler and Pressure Vessel Code, Section II, "Material Specifications," including the latest published addenda in force on the date of purchase and /or design.
- ASME Boiler and Pressure Vessel Code, Section III, "Nuclear Vessels," including the latest published addenda in force on the date of purchase and/or design.
- ASME Boiler and Pressure Vessel Code, Section VIII, "Unfired Pressure Vessels," including the latest published addenda in force on the date of purchase and/or design.
- ASME Boiler and Pressure Vessel Code, Section IX, "Welding Qualifications"
- ANSI B31.1.0-1967, "Power Piping Code"
- ANSI B31.7-1969, "Nuclear Piping Code"
- ASTM A36, "Structural Steel"

3.0 SEISMIC WALKDOWN PROGRAM IMPLEMENTATION APPROACH

Entergy WSES-3 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 SSCs to be 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 WSES-3. 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. For organizational purposes, personnel are presented as being primarily involved with either the walkdown effort or the peer review. 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

Name	Equipment Selection Personnel	Seismic Walkdown Engineer	Licensing Basis Reviewer	IPEEE Reviewer
Greg Ferguson, DE-Civil	X	X[3]	X	X
Marc McCloskey, DE-Mechanical	X			
David Constance, Operations	X[2]			
Ricky Tran, DE-Electrical	X			
John Meibaum, SE-Electrical	X			
James Jamison, SE-Mechanical	X			
Bill Hardin, Licensing	X			
Stephen Picard, DE-Civil	X	X	X	
J. McDonald, PSA Engineer	X			
Dinesh Patel (ENERCON)		X[1]	X	X
Brian Pace (ENERCON)		X	X	
Natalie George (ENERCON)		X		
Chu-Chieh "Jay" Lin (SC Solutions)		X		

Notes:

1. Designated lead SWE for Revision 0
2. Plant operations representative
3. Designated lead SWE for Revision 1

Greg Ferguson, P.E

Mr. Ferguson is a Registered Professional Engineer with over 35 years of experience currently assigned to Design Engineering Group (Civil) at Waterford 3. Mr. Ferguson has significant experience dealing with design and modification of seismic structures. Mr. Ferguson was involved with the Waterford 3 IPEEE seismic walkdowns. Mr. Ferguson completed the NTTF 2.3 Seismic Walkdown Training Course in June of 2012.

Marc McCloskey

Mr. McCloskey is a Mechanical engineer with over five years of experience currently assigned to Design Engineering Group (Mechanical) at Waterford 3

David Constance

Mr. Constance is an Operations training instructor with over 30 years of experience currently assigned to Operations group at Waterford 3. He was also involved in operations group at Waterford 3. Mr. Constance also held a Senior Reactor Operator License from 2000 to 2008 and is also a Certified Shift Technical Advisor

Ricky Tran

Mr. Tran is an Electrical engineer with over 20 years of experience currently assigned to Design Engineering Group (Electrical) at Waterford 3. Mr. Tran was also involved with Procurement Engineering Group at Waterford 3 from 1992 to 1996

John Meibaum

Mr. Meibaum is an Electrical engineer with over 23 years of experience currently assigned to Systems Engineering Group (Electrical) at Waterford 3

James Jamison

Mr. Jamison is a Mechanical Engineer with over four years of experience currently assigned to Systems Engineering Group (Mechanical) at Waterford 3

William Hardin

Mr. Hardin is a Senior Licensing Specialist with over 30 years of experience currently assigned to Licensing group at Waterford 3. Prior to this Mr. Hardin was a Senior Reactor Operator working as Control Room Supervisor and Senior Operations Training Instructor.

Stephen Picard

Mr. Picard is a Civil Engineer with three years of experience in Design Engineering (Civil). Mr. Picard completed the NTTF 2.3 Seismic Walkdown Training Course in July of 2012.

J McDonald

Mr. McDonald is an Electrical Engineer with ten years of experience in electrical, I&C, and PRA Design Engineering.

Dinesh Patel

Mr. Patel is a Lead Engineer in ENERCON Services Kennesaw, GA Office in the Civil/Structural Engineering department. Mr. Patel has a BS degree in Civil/Architectural Engineering with over 30 years of experience. Mr. Patel has extensive concrete, building design, piping and pipe support design experience. Mr. Patel was also Lead/Responsible Engineer for Main and Auxiliary Transformer Replacements, Vacuum Pump Replacement, Diesel Governor Replacement, Power Uprate related modifications and Emergency Sump Strainers design and installations at various nuclear sites. Mr. Patel has significant seismic experience including the design and modification of nuclear structures and distribution system, selecting equipment, developing specifications, witnessing seismic testing, and equipment supports. Mr. Patel also has extensive experience performing security upgrades at Entergy Sites including Grand Gulf Nuclear Station, River Bend Station, Arkansas Nuclear One and Waterford 3 as well as at the Progress Energy sites (Crystal River, Brunswick, Harris, Robinson), Florida Power Sites (St. Lucie and Turkey Point) and the Southern Company Sites (Farley, Hatch and Vogtle). These upgrades included modifications to security buildings, ISFSI installations, VBS installations as well as protected area changes. For the Entergy Sites, Mr. Patel supported the 2002 ICM Security upgrades, the 2004 Revised DBT Security upgrades, and the PA expansion associated with the ISFSI installation at GGNS. Mr. Patel completed the NTTF 2.3 Seismic Walkdown Training Course in July of 2012.

Brian Pace

Mr. Pace is assigned to the Civil/Structural Engineering Group in ENERCON's office in Baton Rouge, LA. He is a degreed civil engineer from Louisiana State University with experience in several nuclear projects for Entergy. Mr. Pace was involved with Service Water System Modifications at Arkansas Nuclear One (ANO), where he helped design safety related tie-back restraints for Service Water piping at ANO. Mr. Pace has experience with Entergy's Engineering Change and Work Management process. He has design experience for River Bend Station as well as ANO. Mr. Pace completed the NTTF 2.3 Seismic Walkdown Training Course in August of 2012.

Natalie George

Ms. George is a Structural Engineer in ENERCON's Kennesaw, GA office. She is responsible for piping design and analysis, support qualification, modification development, and various other mechanical/piping design tasks. Ms. George has approximately two years of support qualification and pipe stress analysis experience. She has performed ANSI B31.1 and ASME pipe stress analysis for safety related piping at several plants including Wolf Creek, Turkey Point, and Brunswick while assigned to the Kennesaw office. Her computer analysis code experience includes ME101, AUTOPIPE, and PipeStress2000. Ms. George completed the NTTF 2.3 Seismic Walkdown Training Course in August of 2012.

Chu-Chieh "Jay" Lin

Dr. Lin is a Senior Engineer in SC Solutions' Walnut Creek, CA office. He has over 15 years of experience in Seismic and Safety assessment of various structures, soil structural integration analyses and design evaluation, finite/discrete element simulation of different types of structures and materials, analyzing and designing industrial and urban steel and reinforced concrete structures, structural evaluation, field investigation, data acquisition, structural health monitoring of bridges and experimental modal analysis, performance analysis of vibration, and seismic design. Dr. Lin completed the NTTF 2.3 Seismic Walkdown Training Course in July of 2012.

4.1 EQUIPMENT SELECTION PERSONNEL

A total of nine individuals served as Equipment Selection Personnel – see Table 4-1.

4.2 SEISMIC WALKDOWN ENGINEERS

A total of six individuals served as Seismic Walkdown Engineers -- see Table 4-1.

4.3 LICENSING BASIS REVIEWERS

A total of four individuals served as Licensing Basis Reviewers – see Table 4-1.

4.4 IPEEE REVIEWERS

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

4.5 PEER REVIEW TEAM

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

Table 4-2: Peer Review Team

Name	SWEL Peer Reviewer	Walkdown Peer Reviewer	Licensing Basis Peer Reviewer	Submittal Report Peer Reviewer
Benjamin Kosbab (ENERCON)		X[2]	X[2]	X[1,2]
Heidi Graf (ENERCON)	X[2]			
Sada Dhingra (ENERCON)	X			
Matthew Wilkinson (ENERCON)		X		
Greg Ferguson			X	X
Nigel Elias				X[3]
Mark Adams				X[3]

1

Notes:

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

1

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, seismic fragility screening, 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, and completed the EPRI NTTF 2.3: Seismic Walkdown Training in July, 2012.

Heidi Graf

Ms. Graf is a mechanical engineer in the Power Generation Group out of the Kennesaw, Georgia office of ENERCON. Ms. Graf has over 17 years of commercial nuclear power engineering experience including 7 years in Nuclear Plant Design and Support with the Southern Nuclear Company (SNC) Farley Nuclear Plant. Ms. Graf has completed multiple modification projects for various nuclear plants on numerous systems. She has knowledge of plant documentation. Ms. Graf has completed several training courses on plant operations and has an understanding on many systems. She has spent many hours studying the IPEEE and the USI A-46 programs and their impacts on the industry

Matthew Wilkinson

Mr. Wilkinson is a Civil Engineer with over 5 years of experience. He has a B.S. in Civil Engineering. Mr. Wilkinson is currently assigned to the Civil/Structural Group at ENERCON's office in Kennesaw, GA. As a civil engineer, he is responsible for the development of engineering packages, calculations, analyses, drawings, and reports. Mr. Wilkinson has significant design experience with Florida Power and Light, primarily providing his services for Turkey Point Nuclear Station (PTN) on several modification packages and calculations. Mr. Wilkinson has significant site support experience at PTN, McGuire Nuclear Station and River Bend Nuclear Station. Moreover, Mr. Wilkinson worked directly at PTN for the majority of 2010 to support the Independent Spent Fuel Storage Installation (ISFSI) construction and 2011 to 2012 to support the Extended Power Uprate (EPU) project design phase. Mr. Wilkinson performed seismic walkdowns at Vogtle Nuclear Station.

Sada Dhingra

Mr. Dhingra is currently assigned as an Engineer in ENERCON's Mechanical group. He has over 30 years of experience in the design, construction, start up and operation of HVAC and Mechanical Systems for nuclear power plants. Prior to joining ENERCON, Mr. Dhingra was a Senior Lead Consultant for D.P. Engineering and Senior Mechanical Engineer for Entergy Operations, Inc. providing engineering services to Entergy Nuclear's Waterford and River Bend stations.

Nigel Elias

Mr. Elias is Sr. Lead Engineer with 30 years of Civil Engineering experience in nuclear power generation. He is currently assigned to System Engineering – EFIN Group at Waterford 3. Mr. Elias has extensive experience with design and modification of seismic structures and seismic qualification of equipment. Mr. Elias completed the NTTF 2.3 Seismic Walkdown Training Course in July 2012.

Mark Adams

Mr. Adams is currently assigned as an Engineering Supervisor in the Design Engineering group at the Waterford 3 SES. He has over 23 years of experience in nuclear power plant work including, maintenance, programs engineering, systems engineering, and design engineering.

1

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" refer 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 WSES-3 during the IPEEE program are reported in Attachment A. A total of 2 seismic vulnerabilities were identified by the WSES-3 IPEEE program. For each identified seismic vulnerability, the table in Attachment A includes three pieces of information requested by Enclosure 3 of the 50.54(f) Letter:

- a description of the action taken to eliminate or reduce the seismic vulnerability;
- whether the configuration management program has maintained the IPEEE action (including procedural changes) such that the vulnerability continues to be addressed;
- when the resolution actions were completed.

The list of IPEEE vulnerabilities provided in Attachment A was used to ensure that some equipment enhanced as a result of the IPEEE program were included in SWEL1 (see Section 6.1.2). Documents describing these equipment enhancements and other modifications initiated by identification of IPEEE vulnerabilities were available and provided to the Seismic Walkdown Engineers (SWEs) during the NTTF 2.3 Seismic Walkdowns.

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 SWEL1 and SWEL2. 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 SSCs for the plant and reducing the number based on certain screening criteria referenced in Section 3 of the Guidance. The list of equipment coming out of Screen #3 and entering Screen #4 is defined as Base List 1. The list of 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 WSES-3, 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" (Ref. 6). As described in Section 3 of the WSES-3 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 8 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 is used as the starting point for the NTTF 2.3 Seismic Walkdown Base List 1. Each component was then checked in the Entergy Electronic Database to verify its safety classification, preventative maintenance, environment, etc. Plant personnel were consulted to find any additional components that were added or replaced in the past 15 years (since the IPEEE report). The resulting list represents Base List 1.

Base List 1 is presented as Table 1 in Attachment B, and has 624 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 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 2 in Attachment B, and has 97 total items.

<u>Variety of Types of Systems</u>

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 2 of Attachment B.

Major New and Replacement Equipment

With assistance from plant Operations and Engineering, 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 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 of items from each class was determined. Items were then selected from Base List 1 ensuring that each of the equipment classes there was also represented on SWEL 1 in approximately the same ratios. The equipment class of each item on SWEL 1 is listed in Table 2 of Attachment B. Note that SWEL 1 does not include components from Class 13. WSES-3 has no Seismic Class I components that are Class 13, and therefore would not be represented on Base List 1 or SWEL 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 also within the containment building. Items that were part of borated systems were included as well. The location and environment of each item on SWEL 1 is listed on Table 2 of Attachment B.

IPEEE Enhancements

With assistance from IPEEE Reviewers, Equipment Selection Personnel identified items on Base List 1 which were enhanced as a result of seismic vulnerabilities identified during the IPEEE program (see Section 5.0). These items are designated as such on Base List 1 on Table 1 of Attachment B. These items are represented on SWEL 1.

Risk Significance

Information from the plant Probabilistic Risk Analysis (PRA) model was used to determine whether items were risk significant. Where otherwise comparable items could be chosen relative to the sample selection attributes, the item with higher risk significance was 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 SWEL1 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 equipment coming out of Screen #4 are the 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 system. Base List 2 is presented as Table 3 in Attachment B, and has 75 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.

This review assessed the hydraulic lines and connected equipment of each such penetration for potentially seismically-induced failure modes that could lead to rapid drain down. The list of SSCs that could cause rapid drain-down is presented as Table 4 in Attachment B which includes the specific basis for determining which SSCs could or could not cause rapid drain-down.

The rapid drain-down list is presented as Table 4 in Attachment B, and has a total of 5 items that could potentially cause rapid drain down.

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 the four sample selection attributes (using a sample process similar to SWEL 1), as well as each item that could potentially cause rapid-drain down of the SFP. Due

to the population of items on Base List 2 being much smaller than Base List 1, the sampling attributes are satisfied differently for SWEL 2 than for SWEL 1. The following paragraphs describe how the equipment selected from Base List 2 for inclusion on SWEL 2 are representative with respect to each of the four sample selection attributes. SWEL 2 is presented as Table 5 in Attachment B, and has 26 total items; of these, 21 items are selected from Base List 2, and 5 are from the rapid drain-down list.

Variety of Types of Systems
There are two systems associated with SFP cooling. Both of these systems are well-represented on SWEL 2.

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 6 different equipment classes represented on Base List 2: 0, 2, 5, 7, 8, 14, and 21. Each of these equipment classes is represented on SWEL 2.

Variety of Environments
All SFP components are located nearby each other, but are in two different environments. The SFP equipment is inside, but some equipment is part of a borated system while the remainder is not. The location and environment of each item on SWEL 2 is listed on Table 5 of Attachment B.

6.3 DEFERRED INACCESSIBLE ITEMS on SWEL

Each item on the SWEL shall be walked down as part of the NTTF 2.3 Seismic Walkdown program. In order to perform the seismic walkdowns of these items, it is necessary to have access to them and to be able to view their anchorage. In some cases, it was not feasible to gain access to the equipment or view its anchorage because WSES-3 was at power until October 17, 2012. For these cases, walkdowns of these items have been deferred until the next available refueling outage (RFO) and/or specific equipment outages. The inaccessible items and some items within cabinets that are available were walked down during and immediately after the refueling outage 18 (RFO 18). The results of these RFO 18 walkdowns are incorporated into the revision 1 to this report. The walkdown of the remaining items will be completed during specific system outage windows or during the next scheduled RFO (19). WSES-3 will provide one additional updated submittal report incorporating the deferred walkdowns after the equipment walkdowns are completed. This will be no later than two months after RFO 19, which is tentatively scheduled for the Spring of 2014. 1

The remaining deferred items are summarized in the table below. The reason for deferral is identified as either CAB (indicating that the item requires opening cabinet/panel doors which was not permitted by plant Operations personnel during the walkdown period, due to being energized or otherwise), or INS (indicated that insulation must be removed in order to complete the walkdown of that component). A total of 9 items remain deferred. Of these, 8 are in cabinets/panels that have to be opened, and one needs insulation removed. 1

Table 6-1: Deferred Items After Revision 1

SWEL#	Equipment ID	Description	Location	Reason
SWEL1-005 (AWC-064***)	SSDESWGR31AB	Switchgear 31AB	RAB +21, Switchgear AB Room	CAB
SWEL1-029 (AWC-038*)	HVCMVAAA205-A	Control Room Emergency Filtration A Inlet Damper	RAB +46, 8A-L	INS
SWEL2-001 (AWC-063**)	FS EBKR314A-5D	Fuel Pool Purification Pump Circuit Breaker	FHB +1, 1FH-V	CAB
SWEL2-002 (AWC-063**)	FS EBKR314A-5M	Fuel Pool Pump A Circuit Breaker	FHB +1, 1FH-V	CAB
SWEL2-003 (AWC-063**)	FS EBKR314B-6F	Refueling Canal Drain Pump Circuit Breaker	FHB +1, 2FH-W	CAB
SWEL2-006 (AWC-063**)	FS EBKR314B-5M	Fuel Pool Pump B Circuit Breaker	FHB +1, 2FH-W	CAB
SWEL2-007 (AWC-063**)	FS EOL314A-5M	Fuel Pool Pump A TOL	FHB +1, 1FH-V	CAB
SWEL2-008 (AWC-063**)	FS EOL314B-5M	Fuel Pool Pump B TOL	FHB +1, 2FH-W	CAB
SWEL2-009 (AWC-063**)	FS EOL314B-6F	Refueling Canal Drain Pump TOL	FHB +1, 2FH-W	CAB

* Denotes that the AWC is submitted with Revision 0 to this report. Although its associated SWEL item has been deferred, the AWC was conducted due to other SWEL items being in the surrounding area.

** Denotes that the AWC is submitted with Revision 1 to this report. Although its associated SWEL item has been deferred, the AWC was conducted due to other SWEL items being in the surrounding area.

*** Denotes that AWC will be submitted in Revision 2 to this report.

Table 6-2: Deferred Items Completed in Revision 1

SWEL#	Equipment ID	Description	Location	Reason
SWEL1-002 (AWC-018*)	SSDEMCC311B	Motor Control Center 311B	RAB +21, Switchgear B Room	CAB
SWEL1-004 (AWC-019**)	CEDEBKR3918-B	Reactor Trip Switchgear Breaker TCB-2 Compartment 2C	RAB +21, Switchgear B Room	CAB
SWEL1-006	4KVESWGR3A	Switchgear 3A	RAB +21, Switchgear A	CAB

SWEL#	Equipment ID	Description	Location	Reason
(AWC-016*)			Room	
SWEL1-018 (AWC-054**)	BM MVAAA109	Reactor Drain Tank Outlet Inside Containment Isolation	RCB -11, COL. 14	ACC
SWEL1-019 (AWC-059**)	CAPMVAAA103	Containment Purge Inlet Inside Annulus	ANN +21, PEN. P-10	ACC
SWEL1-026 (AWC-031**)	CVCMVAAA209	Charging Header Isolation	RB +21	ACC
SWEL1-037 (AWC-060**)	SI MVAAA307-A	Safety Injection Tank 1A Fill/Drain	RCB +35, COL. 17	ACC
SWEL1-038 (AWC-056**)	SI MVAAA405-B	RC Loop 1 SDC Suction Inside Containment Isolation	RCB +21, COL. 17	ACC
SWEL1-047 (AWC-057**)	RC ISV1014	Reactor Vessel Vent to Quench Tank Isolation	RCB +46, AZM 196	ACC
SWEL1-048 (AWC-057**)	RC ISV3184	Pressurizer Vent to Quench Tank	RCB +46, AZM 196	ACC
SWEL1-059 (AWC-061**)	ACCMFAN0002-B	Wet Cooling Tower B Fan 2-SB	CTB -35, 12A-Q1	ACC
SWEL1-075 (AWC-056**)	IC ICDC1-C	Instrument Cabinet C-1C	RCB +21, COL. 16	ACC
SWEL1-077 (AWC-055**)	IC ICDC9	Instrument Cabinet C-9	RCB +21, COL. 6	ACC
SWEL1-079 (AWC-058**)	SG ILT1115-A	Steam Generator 1 Level IXMITR (Wide Range)	RCB -4, COL. 18	ACC
SWEL1-080 (AWC-062**)	RC ITE0122-HA1	Reactor Coolant Loop 2 Hot Leg Temperature	RCB -4	ACC
SWEL1-084 (AWC-032*)	IC ECP08	Engineered Safeguard Control Panel CP8	RAB +46, Control Room	CAB
SWEL1-097 (AWC-018*)	4KVESWGR3B	Switchgear 3B	RAB +21, Switchgear B Room	CAB

* Denotes that the AWC is submitted with Revision 0 to this report.

** Denotes that the AWC is submitted with Revision 1 to this report.

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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 WSES-3 by teams of two trained and qualified Seismic Walkdown Engineers (SWEs) (see Section 4.2). Each team included one engineer with several years of experience in seismic design and the qualification of nuclear power plant SSCs. The second engineer had less experience, but sufficient experience to properly perform the tasks. A total of two SWE teams were used. In certain instances, the teams periodically "shuffled" personnel to cross-check consistency between the SWEs and to ensure that lessons learned were being shared. SWE teams were periodically accompanied 1
into the field by WSES-3 design engineering and operations personnel to open cabinets and answer questions.

Revision 0 Walkdowns

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The seismic walkdowns and area walk-bys were conducted over the course of 3 weeks during October of 2012. Each morning, a pre-job brief with all personnel involved was conducted. This pre-job brief was used to outline the components and areas that would be walked down that day, to ensure consistency between the teams, to reinforce expectations to identifying potential personal 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 (regular and pole mounted with remote monitor), tape measures, and flash lights into the field to assist with the seismic walkdowns and area walk-bys.

Revision 1 Walkdowns

The seismic walkdowns and area walk-bys were conducted after the beginning of RF18 and up to March 2013. Prior to each walkdown, a pre-job brief was conducted with the personnel involved. This pre-job brief was used to outline the components and areas that would be walked down that day to reinforce expectations to identify potential safety issues and to discuss radiation and contamination issues. The SWE team brought cameras (in most areas), tape measures and flash lights to assist with the walkdowns and area walk-bys. A camera was not able to be carried in all areas due to the danger of climbing while carrying equipment.

1

7.1 SEISMIC WALKDOWNS

Seismic walkdowns were performed in accordance with Section 4 of the Guidance for all items on the SWEL (SWEL 1 plus SWEL 2), except for those determined to be inaccessible and deferred (see Section 6.3). To document the results of the walkdown, a separate 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 (when possible), 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, equipment drawings, response spectra information, previous IPEEE seismic walkdown documentation, current operability evaluations, and anchorage drawings where applicable. These documentation packages were brought with the SWE teams into the plant during the seismic walkdowns. Checklists and necessary drawings were all that were taken into contaminated areas in order to reduce radwaste.

Walkdown inspections focused not only on anchorage conditions 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). Where opening the cabinet/panel exhibited undue safety or operational hazards, it was considered inaccessible and the completion of the walkdown of that item was deferred to a later time (see Section 6.3).

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. Not considering deferred items, there were a total of 119 SWEL1 and SWEL2 items. Of the 119 SWEL items, 61 items were considered to have anchorage (i.e., removing in-line/line-mounted components). Of these 61 anchored components, the walkdowns of 34 SWEL items included anchorage configuration verification, which is greater than 50%.

All SWCs, whether status has been checked "Y" or "N", have been included in Attachment C. A total of 123 SWCs are attached, 97 with completion status marked "Y" and 26 with

completion status marked "N". SWCs considered and marked incomplete are those where a walkdown was initiated, but whose completion was ultimately deferred because the cabinet/panel could not be opened during the walkdown period. Therefore, the 97 completed SWCs represent the completed walkdowns of each SWEL item accessible during the walkdown period. Attachment K contains 17 completed SWCs of deferred equipment from revision 0 of this report.

7.2 AREA WALK-BYS 1

Seismic area walk-bys were performed in accordance with Section 4 of the Guidance for all plant areas containing items on the SWEL (SWEL 1 plus SWEL 2); except for those SWEL items located in plant areas inaccessible during the walkdown period (see Section 6.3). Area walk-bys were not deferred where components were deferred simply to open cabinets/panels. A separate Area Walk-By Checklist (AWC) with the same content as that included in Appendix C of the Guidance was used to document the results of each area walk-by performed. Photographs were taken of each area, and included on the corresponding AWC.

Where possible, 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 59 area walk-bys was necessary to cover all plant areas containing at least one accessible SWEL item.

The AWC for each area walk-by completed for Revision 0 is included in Attachment D. A total of 46 AWCs are attached, which represent all of the areas containing a SWEL item that were accessible during the walkdown period.

The AWCs for each area walk-by completed for Revision 1 is included in Attachment L. A total of 12 AWCs are included.

Note that not all AWC numbers are used. Attachment N includes a table with the SWEL number versus the corresponding AWC number. 1

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. However, some unusual or uncertain conditions (i.e. mild surface corrosion) were reported to site personnel through the Corrective Action Program (CAP) for tracking purposes (see Section 8.2). Not all observations were reported through the CAP. Often times, only a Work Request (WR) was written, or the observation was deemed too insignificant to write a WR or report through the CAP. A total of 92 seismically insignificant conditions were identified and were either reported through the CAP or had a Work Request written for them. These conditions were generally related to either housekeeping (10), missing bolts or screws that posed no seismic concern (16), interaction issues that pose no seismic concern (4), spalled concrete (1), or mild surface corrosion (63). 1

For conditions that were judged as potentially significant to seismic response, then the condition was photographed and, if applicable, 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 (see Section 8.2) and documented for reporting in Attachment E. A total of 26 potentially adverse seismic conditions were identified. These conditions were generally related to missing or loose anchorage (7), seismically significant housekeeping issues (10), seismically significant corrosion (8), or concrete cracks (3).

CONDITION RESOLUTION

Conditions observed during the seismic walkdowns and area walk-bys determined to be potentially adverse seismic conditions are summarized in Attachment E. Each potentially adverse seismic condition is addressed either with a Licensing Basis Evaluation (LBE) to 1

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.

Some unusual conditions that were not seismically significant were entered into the CAP directly. Other unusual observed conditions either had a WR written for them or were deemed insignificant to report. 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 and / or Work Request (WR) numbers generated on the applicable SWCs and AWCs.

8.1 Licensing Basis Evaluation

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. If the identified condition cannot easily be shown to be consistent with existing seismic documentation, or no seismic documentation exists, then the condition is entered into the CAP.

Of the 26 identified potentially adverse seismic conditions, 8 LBEs were performed. Each LBE performed is documented consistently, and included in Attachments F or M. The results of these LBEs with respect to the associated potentially adverse seismic conditions are summarized in Attachment E. A total of 8 potentially adverse seismic conditions evaluated using a LBE were dispositioned and required no further action, whereas 0 required CAP entry. 1

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 Corrective Action Program (CAP) in accordance with the plant's existing processes and procedures for an eventual disposition. Conditions entered into the CAP included three types of unusual conditions identified:

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

A total of 43 Condition Reports (CRs) were generated in the CAP as a result of the NTTF 2.3 Seismic Walkdown program. A total of 7 identified conditions already had CRs written for them. Of these, the majority (32) were from seismically insignificant unusual conditions. A total of 18 CRs were written relative to potentially adverse seismic conditions. The CR numbers, current status, and resolution (where applicable and available) are summarized for these potentially adverse seismic conditions in Attachment E. 1

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, including operability evaluations, extent of condition evaluations, and root cause analysis (where applicable).

There was one item that required immediate field work as a result of the NTTF 2.3 Seismic Walkdown program. A temporary enclosure was found to be installed in the "B" Switchgear room. This enclosure is used to provide a contamination barrier when the floor plug is removed from a contaminated pipe chase below the floor.

No calculation or drawings could be found for the enclosure. Since the enclosure is unanchored, there is a distinct possibility that it could move across the floor and strike two different safety related panels during a seismic event. One Local Control Panel (PAC LCP-63), and the Instrument Cabinet (C-3B).

CR-WF3-2012-05172 was initiated. As a result, the enclosure was braced at the top and bottom to existing structural members to ensure the rigidity of the enclosure. This bracing was installed using existing site procedures.

EC40448 was issued to document the acceptability of the modified enclosure.

Final and complete resolutions of the CRs for seismically insignificant unusual conditions and potentially adverse seismic conditions will determine if future modifications to the plant are required. 1

9.0 PEER REVIEW

9.1 PEER REVIEW PROCESS

The peer review for the Near Term Task Force (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 25% 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 into 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 took the lead for that particular peer review 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.

The peer review for revision 1 to this report consisted of performing a review of the revised portion of the report and attachments (see Sections 9.2.5, 9.2.6, and 9.2.7).

9.2 PEER REVIEW RESULTS SUMMARY 1

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. These peer reviewers both have extensive knowledge and experience related to nuclear power plant design, operations, documentation, and SSCs. The peer review was conducted prior to the seismic walkdowns occurring, and was performed as follows:

- The draft of SWEL 1 and SWEL 2 were provided to the peer reviewers, along with the corresponding base lists (Base List 1, Base List 2, and SFP rapid drain-down list). the peer reviewers were also provided a written description from the

equipment selection personnel of how the SWEL 1 and SWEL 2 were developed.

- Each peer reviewer independently reviewed the equipment selection process and the 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 4.1).
- Comment resolutions were provided to the peer reviewers to confirm acceptable resolution of all comments.

The peer review team reviewed the initial SWEL 1 and SWEL 2 and provided comments and suggestions for modification of the SWEL. Comments included suggesting to add components associated with IPEEE vulnerabilities identified at WSES-3 to SWEL1. 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.

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 SWEL1 and SWEL2 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 in the component selection. Additionally, 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 of the SWEL.

The peer review checklist of the SWEL is provided in Attachment G.

9.2.2 Seismic Walkdowns and Area Walk-Bys (Rev. 0)

Peer review of the seismic walkdowns and area walk-bys was conducted by two peer reviewers, 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, and the other is engaged with the industry team which developed the Guidance (see Section 4.2). The peer reviews were conducted at the WSES-3 site concurrent with the walkdowns at approximately 50% completion. The peer review was performed as follows: 1

- The peer review team reviewed the walkdown packages (including checklists, photos, drawings, etc.) for SWEL items already completed to ensure that the checklists were completed in accordance with the Guidance. A total of 27 SWC and 14 AWC forms were reviewed, each representing approximately 25% of their respective totals. In the context of the Guidance, the peer review team considered the number of walkdown packages reviewed to be appropriate. The packages reviewed represent a variety of equipment types in various plant areas. Specific SWC forms reviewed were SWEL1-003, 006, 007, 008, 010, 011, 012, 013, 016, 043, 044, 046, 051, 054, 056, 060, 066, 069, 070, 071, 072, 082, 087, 089, 090, 092, and 094. Specific AWC forms reviewed were AWC-001, 002, 004, 005, 006, 007, 010, 014, 016, 021, 023, 025, 028, and 042.
- While reviewing the walkdown packages, the peer reviewers conducted informal interviews of the SWEs and asked clarifying questions to verify that they were conducting walkdowns and area walk-bys in accordance with the Guidance.
- The peer review team held a meeting with the SWE teams to provide feedback on the walkdown and walk-by packages reviewed and the informal interviews, and discuss potential modifications to the documentation packages in the context of the Guidance.
- Each peer reviewer accompanied each SWE team into the field and observed them perform a walkdown of a SWEL component and its associated area walk-by. During these observations, the peer reviewers asked clarifying questions to verify the walkdown and walk-by process being followed was in accordance with the Guidance. The items walked down under the observation of a peer reviewer were SWEL1-042, 061, 062, and 064. The associated area walk-bys performed under the observation of a peer reviewer are AWC-038 and -039.

- The peer review team held a meeting with the SWE teams to provide feedback on the walkdown and walk-by observations, and discuss how lessons learned from review of the walkdown packages had been incorporated into the walkdown process.

As a result of the peer review activities, the SWE teams modified their documentation process to include additional clarifying details, particularly related to checklist questions marked "N/A" and where conditions were observed but judged as insignificant. The peer review team felt these modifications would be of benefit for future reviews of checklists incorporated into the final report. These modifications were recommended following review of the walkdown and area walk-by packages, and the observation walkdowns and area walk-bys demonstrated that the SWEs understood the recommendations and were incorporating them into the walkdown and area walk-by process. Previously completed checklists were revised to reflect lessons learned from the peer review process.

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 such as the examples described in Section 4 of the Guidance. The SWEs demonstrated appropriate use of self checks and peer checks. They discussed their observations with questioning attitude, and documented the results of the seismic walkdowns and area walk-bys on the appropriate checklists.

9.2.3 Licensing Basis Evaluations (Rev. 0)

Licensing Basis Evaluations (LBEs) were developed by members of the walkdown engineering team to document the disposition of those potentially adverse seismic conditions identified which did not require entry into the CAP. Each LBE was independently reviewed for technical content and CAP entry decisions by the lead LBE peer reviewer. A second peer reviewer 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 field conditions relative to the specific plant licensing basis documents and make appropriate decisions for entering the potentially adverse seismic conditions into the plant's CAP. High-level peer review comments are documented in Attachment H.

9.2.4 Submittal Report (Rev. 0)

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 was 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. 1

9.2.5 Seismic Walkdowns and Area Walk-bys (Rev. 1) 1

Peer review of the seismic walkdowns and area walk-bys included in Revision 1 was conducted by two peer reviewers. One of these is a qualified SWE and has broad knowledge of seismic engineering applied to nuclear power plants. The peer reviewers reviewed the walkdown packages of the items included in Attachment K and L.

The peer review team for Revision 1 concluded that the SWE team followed the process for conducting seismic walk-bys in accordance with the Guidance.

9.2.6 Licensing Basis Evaluations (Rev. 1)

A Licensing Basis Evaluation (LBE) was developed by the SWE team to document the disposition of a potentially adverse seismic condition identified which did not require entry into the CAP. The Revision 1 peer review team independently reviewed this one LBE in Attachment M and concluded that the LBE properly evaluated field conditions relative to this condition.

9.2.7 Submittal Report (Rev. 1)

The Revision 1 peer review team reviewed the changes and additions from Revision 0 of this report. The Revision 1 peer review team concluded that the 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 was in accordance with the Guidance.

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. Waterford Steam Electric Station Unit 3, Final Safety Analysis Report (FSAR), Revision 306

4. Generic Letter No. 88-20, Supplement 4, Individual Plant Examination of External Events (IPEEE) for Severe Accident Vulnerabilities

5. Waterford 3 Individual Plant Examination of External Events (IPEEE) Reduced Scope Seismic Margin Assessment (SMA). Report No. WF3-CS-12-00001, 02-07-2012/Revision, 0

6. EPRI Report NP-6041-SLR1, "A Methodology for Assessment of Nuclear Power Plant Seismic Margin (Revision 1)"

10.0 ATTACHMENTS

ATTACHMENT A – IPEEE VULNERABILITIES TABLE

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS 1

ATTACHMENT C – SEISMIC WALKDOWN CHECKLISTS (SWCs) (Rev. 0)

ATTACHMENT D – AREA WALK-BY CHECKLISTS (AWCs) (Rev. 0)

ATTACHMENT E – POTENTIALLY ADVERSE SEISMIC CONDITIONS

ATTACHMENT F – LICENSING BASIS EVALUATION FORMS (Rev. 0)

ATTACHMENT G – PEER REVIEW CHECKLIST FOR SWEL

ATTACHMENT H – PEER REVIEW COMMENT FORM

ATTACHMENT J – SEISMIC WALKDOWN ENGINEER TRAINING CERTIFICATES 1

ATTACHMENT K – SEISMIC WALKDOWN CHECKLISTS (SWCs) (Rev. 1)

ATTACHMENT L – AREA WALK-BY CHECKLISTS (AWCs) (Rev. 1)

ATTACHMENT M – LICENSING BASIS EVALUATION FORMS (Rev. 1)

ATTACHMENT N – SEISMIC WALKDOWN ENGINEER TRAINING CERTIFICATES (Rev. 1)

ATTACHMENT O – SWEL NUMBERS vs AWC NUMBERS

Attachment A

IPEEE Vulnerability List

#	IPEEE VULNERABILITY	COMMITMENT	RESOLUTION	CMP	RESOLVED
V01	Several Seismic interaction issues were found during IPEEE walkdown in the Control Room. • Panels not bolted together • Personal storage lockers book cases, storage cabinets, lockers, copy machine were behind the panels and were not secured • Breathing air cabinet can interact with CP-08	Resolve the Seismic interaction issue in the Control Room	CR-94-1019 was issued to document loose items in the Control Room Modifications were implemented and all issues were resolved -Panels were bolted together -Personal storage lockers, book cases and storage cabinets were either bolted or relocated -Breathing air cabinet was secured such that it would not interact with CP-08	Y	02-15-1995
V02	Station Air Pipe is close to Switchgear 4KVESWGR3B and can interact with the Switchgear	Resolve the Seismic interaction issue with the Switchgear	CR-94-1111 was issued to document the station air pipe which is adjacent to 4KVESWGR3B Station Air pipe was rerouted to provide adequate clearance between the switchgear and pipe.	Y Note 1	03-30-1995

Prepared by: Dinesh Patel Date: 10/27/2012

Note 1: Plant documents were modified to incorporate vulnerability resolution.

Attachment B

Seismic Walkdown Equipment Lists

Table 1 – Base List 1

Table 2 – SWEL 1

Table 3 – Base List 2

Table 4 – Rapid Drain Down List

Table 5 – SWEL 2

Seismic Walkdown Equipment List Approval

Prepared by:	GREGORY N. FERGUSON Equipment Selection Personnel	Date: 11/13/12
Prepared by:	STEPHEN PICARD Equipment Selection Personnel	Date: 11/13/12
Prepared by:	Marc McCloskey Equipment Selection Personnel	Date: 11/13/12
Prepared by:	William Hardin Equipment Selection Personnel	Date: 11/13/12
Prepared by:	RICKY TRAN Equipment Selection Personnel	Date: 11/13/12
Prepared by:	JAMES JAMIOONI Equipment Selection Personnel	Date: 11/14/12
Prepared by:	John Meibaum Equipment Selection Personnel	Date: 11/14/12
Prepared by:	NA Equipment Selection Personnel	Date:
Prepared by:	NA Equipment Selection Personnel	Date:
Reviewed by:	HEIDI GRAF Peer Reviewer	Date: 11/16/12
Reviewed by:	NA Peer Reviewer	Date:
Concurrence by:	DAVID COUSTANCE Operations Personnel	Date: 11-16-12

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	3	4KVESWGR3A PANEL		SWITCHGEAR 3A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	3	4KVESWGR3AB PANEL		SWITCHGEAR 3AB	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	3	4KVESWGR3B PANEL		SWITCHGEAR 3B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	9	ACCMFAN0001 B BLOWER		WET COOLING TOWER B FAN 1-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0001 A BLOWER		WET COOLING TOWER A FAN 1-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0002 B BLOWER		WET COOLING TOWER B FAN 2-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0002 A BLOWER		WET COOLING TOWER A FAN 2-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0003 B BLOWER		WET COOLING TOWER B FAN 3-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0003 A BLOWER		WET COOLING TOWER A FAN 3-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0004 B BLOWER		WET COOLING TOWER B FAN 4-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0004 A BLOWER		WET COOLING TOWER A FAN 4-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0005 B BLOWER		WET COOLING TOWER B FAN 5-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0005 A BLOWER		WET COOLING TOWER A FAN 5-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0006 B BLOWER		WET COOLING TOWER B FAN 6-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0006 A BLOWER		WET COOLING TOWER A FAN 6-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0007 B BLOWER		WET COOLING TOWER B FAN 7-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0007 A BLOWER		WET COOLING TOWER A FAN 7-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0008 B BLOWER		WET COOLING TOWER B FAN 8-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	ACCMFAN0008 A BLOWER		WET COOLING TOWER A FAN 8-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	5	ACCMPMP0001 B PUMP		AUXILIARY COMPONENT COOLING WATER PUMP B	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	5	ACCMPMP0001 A PUMP		AUXILIARY COMPONENT COOLING WATER PUMP A	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	ACCMVAAA112 B VALVE		ACC HEADER B TO ESSENTIAL CHILLERS ISOL	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	ACCMVAAA112 A VALVE		ACC HEADER A TO ESSENTIAL CHILLERS ISOL	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	ACCMVAAA126 B VALVE		ACC HEADER B CCW HX OUTL TEMPERATURE CONTROL VALVE	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	ACCMVAAA126 A VALVE		ACC HEADER A CCW HX OUTL TEMPERATURE CONTROL	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	ACCMVAAA138 B VALVE		ACC WET COOLING TOWER B CROSS-CONNECT ISOLATION	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	ACCMVAAA138 A VALVE		ACC WET COOLING TOWER A CROSS-CONNECT ISOLATION	Yes	No	Yes	No	Yes	O	H	No				Yes	

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I/O)	High Temp / Humidity? (T/H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	7	ACCMVAAA139 B VALVE		ACC HEADER B RETURN FROM ESSENTIAL CHILLERS ISOL	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	ACCMVAAA139 A VALVE		ACC HEADER A RETURN FROM ESSENTIAL CHILLERS ISOL	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	8	ARMISV0109 VALVE		CNTMT ATMOS RAD MONITOR SUCT HDR INSIDE ISOL	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	5	BAMMPMP0001 B PUMP		BORIC ACID PUMP B	Yes	No	Yes	No	Yes	I		Yes	Yes				
WF3	5	BAMMPMP0001 A PUMP		BORIC ACID PUMP A	Yes	No	Yes	No	Yes	I		Yes	Yes				
WF3	21	BAMMTNK0001 B ACCUMU		BORIC ACID MAKEUP TANK B	Yes	No	Yes	No	Yes	I		Yes	Yes				
WF3	21	BAMMTNK0001 A ACCUMU		BORIC ACID MAKEUP TANK A	Yes	No	Yes	No	Yes	I		Yes	Yes				
WF3	8	BAMMVAAA113 B VALVE		BORIC ACID MAKEUP TANK B GRAVITY FEED VALVE	Yes	No	Yes	No	Yes	I		Yes	Yes				
WF3	8	BAMMVAAA113 A VALVE		BORIC ACID MAKEUP TANK A GRAVITY FEED VALVE	Yes	No	Yes	No	Yes	I		Yes	Yes				
WF3	7	BAMMVAAA126 B VALVE		BORIC ACID MAKEUP PUMP B RECIRC VALVE	Yes	No	Yes	No	Yes	I		Yes	Yes				
WF3	7	BAMMVAAA126 A VALVE		BORIC ACID MAKEUP PUMP A RECIRC VALVE	Yes	No	Yes	No	Yes	I		Yes	Yes				
WF3	8	BAMMVAAA133 VALVE		EMERGENCY BORATION VALVE	Yes	No	Yes	No	Yes	I		Yes	Yes				
WF3	7	BAMMVAAA141 VALVE		BORIC ACID MAKEUP HEADER ACID FLOW CONTROL VALVE	Yes	No	Yes	No	Yes	I		Yes	Yes				
WF3	7	BD MVAAA102 B VALVE		S/G 2 BLOWDOWN INSIDE CONTAINMENT ISOLATION	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	7	BD MVAAA102 A VALVE		S/G 1 BLOWDOWN INSIDE CONTAINMENT ISOLATION	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	7	BD MVAAA103 B VALVE		S/G 2 BLOWDOWN OUTSIDE CONTAINMENT ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	BD MVAAA103 A VALVE		S/G 1 BLOWDOWN OUTSIDE CONTAINMENT ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	BM MVAAA109 VALVE		REACTOR DRAIN TANK OUTLET INSIDE CONTAINMENT ISOL	Yes	No	Yes	No	Yes	I	T / H	Yes					Yes
WF3	20	CABINET C-90B		SOUTH OF WALL IN CCW PUMP B	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CAPMVAAA103 VALVE		CONTAINMENT PURGE INLET INSIDE ANNULUS	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	7	CAPMVAAA104 VALVE		CONTAINMENT PURGE INLET INSIDE CONTAINMENT	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	7	CAPMVAAA203 VALVE		CONTAINMENT PURGE EXHAUST INSIDE CONTAINMENT	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	7	CAPMVAAA204 VALVE		CONTAINMENT PURGE EXHAUST INSIDE ANNULUS	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	8	CARMVAAA201 B VALVE		CAR EXHAUST HEADER B INLET	Yes	No	Yes	No	Yes	I	T / H	No					Yes

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I/O)	High Temp / Humidity? (T/H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	8	CARMVAAA201 A VALVE		CAR EXHAUST HEADER A INLET	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	8	CARMVAAA204 B VALVE		CAR EXHAUST HEADER B DISCHARGE	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	CARMVAAA204 A VALVE		CAR EXHAUST HEADER A DISCHARGE	Yes	No	Yes	No	Yes	I		No					Yes
WF3	18	CC ILS7011 B IBISSW		CCW SURGE TANK B SIDE LO/LO LEVEL SWITCH	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	18	CC ILS7011 A IBISSW		CCW SURGE TANK A SIDE LO/LO LEVEL SWITCH	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	8	CC ISV0835 B1 ICNTRL		CNTMT FAN COOLERS HDR B CCW RTN TCV SOLENOID VLV	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	9	CC MFAN0001 B BLOWER		DRY COOLING TOWER B FAN 1-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0001 A BLOWER		DRY COOLING TOWER A FAN 1-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0002 B BLOWER		DRY COOLING TOWER B FAN 2-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0002 A BLOWER		DRY COOLING TOWER A FAN 2-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0003 B BLOWER		DRY COOLING TOWER B FAN 3-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0003 A BLOWER		DRY COOLING TOWER A FAN 3-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0004 B BLOWER		DRY COOLING TOWER B FAN 4-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0004 A BLOWER		DRY COOLING TOWER A FAN 4-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0005 B BLOWER		DRY COOLING TOWER B FAN 5-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0005 A BLOWER		DRY COOLING TOWER A FAN 5-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0006 B BLOWER		DRY COOLING TOWER B FAN 6-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0006 A BLOWER		DRY COOLING TOWER A FAN 6-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0007 B BLOWER		DRY COOLING TOWER B FAN 7-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0007 A BLOWER		DRY COOLING TOWER A FAN 7-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0008 B BLOWER		DRY COOLING TOWER B FAN 8-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0008 A BLOWER		DRY COOLING TOWER A FAN 8-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0009 B BLOWER		DRY COOLING TOWER B FAN 9-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0009 A BLOWER		DRY COOLING TOWER A FAN 9-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0010 B BLOWER		DRY COOLING TOWER B FAN 10-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0010 A BLOWER		DRY COOLING TOWER A FAN 10-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0011 B BLOWER		DRY COOLING TOWER B FAN 11-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0011 A BLOWER		DRY COOLING TOWER A FAN 11-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID			SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
												Environment?							
							Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	9	CC MFAN0012	B	BLOWER		DRY COOLING TOWER B FAN 12-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0012	A	BLOWER		DRY COOLING TOWER A FAN 12-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0013	B	BLOWER		DRY COOLING TOWER B FAN 13-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0013	A	BLOWER		DRY COOLING TOWER A FAN 13-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0014	B	BLOWER		DRY COOLING TOWER B FAN 14-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0014	A	BLOWER		DRY COOLING TOWER A FAN 14-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0015	B	BLOWER		DRY COOLING TOWER B FAN 15-SB	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	9	CC MFAN0015	A	BLOWER		DRY COOLING TOWER A FAN 15-SA	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	21	CC MHX0001	B	HTEXCH		COMPONENT COOLING WATER HEAT EXCHANGER B	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	21	CC MHX0001	A	HTEXCH		COMPONENT COOLING WATER HEAT EXCHANGER A	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	5	CC MPMP0001	B	PUMP		COMPONENT COOLING WATER PUMP B	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	5	CC MPMP0001	A	PUMP		COMPONENT COOLING WATER PUMP A	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	21	CC MTNK0001	C	ACCUMU		COMPONENT COOLING WATER SURGE TANK	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	CC MVAAA114	B	VALVE		CCW PUMP B TO AB SUCTION CROSSCONNECT	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA114	A	VALVE		CCW PUMP A TO AB SUCTION CROSSCONNECT	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA115	B	VALVE		CCW PUMP AB TO B SUCTION CROSSCONNECT	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA115	A	VALVE		CCW PUMP AB TO A SUCTION CROSSCONNECT	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA126	B	VALVE		CCW PUMP B TO AB DISCHARGE CROSSCONNECT	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA126	A	VALVE		CCW PUMP A TO AB DISCHARGE CROSSCONNECT	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA127	B	VALVE		CCW PUMP AB TO B DISCHARGE CROSSCONNECT	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA127	A	VALVE		CCW PUMP AB TO A DISCHARGE CROSSCONNECT	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA134	B	VALVE		DRY COOLING TOWER B CCW BYPASS	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	CC MVAAA134	A	VALVE		DRY COOLING TOWER A CCW BYPASS	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	CC MVAAA135	B	VALVE		DRY COOLING TOWER B CCW INLET ISOLATION	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	CC MVAAA135	A	VALVE		DRY COOLING TOWER A CCW INLET ISOLATION	Yes	No	Yes	No	Yes	O	H	No				Yes	

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I/O)	High Temp / Humidity? (T/H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	7	CC MVAAA200 B VALVE		CCW HEADER B TO AB SUPPLY ISOLATION	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA200 A VALVE		CCW HEADER A TO AB SUPPLY ISOLATION	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA301 B VALVE		CCW HEADER B SUPPLY TO ESSENTIAL CHILLERS ISOL	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA301 A VALVE		CCW HEADER A SUPPLY TO ESSENTIAL CHILLERS ISOL	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	**7**	**CC MVAAA322 B VALVE**		**CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOL**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**				**Yes**	
WF3	7	CC MVAAA322 A VALVE		CCW HEADER A RETURN FROM ESSENTIAL CHILLERS ISOL	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	0	CC MVAAA323 B VALVE		CCW Header B Return from Essential Chillers Check	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA501 VALVE		CCW NON SAFETY SUPPLY HDR ISOLATION	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA562 VALVE		CCW NON SAFETY RETURN HDR ISOLATION	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA563 VALVE		CCW HEADER AB TO B RETURN ISOLATION	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA641 VALVE		CCW TO CONTAINMENT OUTSIDE CONTAINMENT ISOL	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	CC MVAAA713 VALVE		CNTMT CCW RETURN HEADER OUTSIDE CNTMT ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	CC MVAAA727 VALVE		CCW HEADER AB TO A RETURN ISOLATION	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CC MVAAA807 B VALVE		CONTAINMENT FAN COOLER B CCW INLET ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	CC MVAAA807 A VALVE		CONTAINMENT FAN COOLER C CCW INLET ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	CC MVAAA808 B VALVE		CONTAINMENT FAN COOLER D CCW INLET ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	CC MVAAA808 A VALVE		CONTAINMENT FAN COOLER A CCW INLET ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	CC MVAAA822 B VALVE		CONTAINMENT FAN COOLER D CCW OUTLET ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	CC MVAAA822 A VALVE		CONTAINMENT FAN COOLER A CCW OUTLET ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	CC MVAAA823 B VALVE		CONTAINMENT FAN COOLER B CCW OUTLET ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	CC MVAAA823 A VALVE		CONTAINMENT FAN COOLER C CCW OUTLET ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID			SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
												Environment?							
							Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	7	CC MVAAA835	B	VALVE		CNTMT FAN COOLERS TRAIN B TEMPERATURE CONTROL	Yes	No	Yes	No	Yes	I		No					Yes
WF3	**7**	**CC MVAAA835**	**A**	**VALVE**		**CNTMT FAN COOLERS TRAIN A TEMPERATURE CONTROL**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**					**Yes**
WF3	7	CC MVAAA963	B	VALVE		SHUTDOWN HEAT EXCHANGER B CCW FLOW CONTROL	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	**7**	**CC MVAAA963**	**A**	**VALVE**		**SHUTDOWN HEAT EXCHANGER A CCW FLOW CONTROL**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**				**Yes**	
WF3	9	CCSMFAN0003	D	BLOWER		CONTAINMENT COOLING HVAC AH-1(3D-SB) FAN	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	9	CCSMFAN0003	A	BLOWER		CONTAINMENT COOLING HVAC AH-1(3A-SA) FAN	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	7	CCSMVAAA102	B	VALVE		CONTAINMENT COOLING HVAC SAFETY DISCHARGE DAMPER B	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	7	CCSMVAAA102	A	VALVE		CONTAINMENT COOLING HVAC SAFETY DISCHARGE DAMPER A	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	2	CEDEBKR3917	B	CKTBRK		REACTOR TRIP SWGR BREAKER TCB-1 COMPARTMENT 1D	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	2	CEDEBKR3917	A	CKTBRK		REACTOR TRIP SWGR BREAKER TCB-5 COMPARTMENT 1B	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	**2**	**CEDEBKR3918**	**B**	**CKTBRK**		**REACTOR TRIP SWGR BREAKER TCB-2 COMPARTMENT 2C**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**				
WF3	2	CEDEBKR3918	A	CKTBRK		REACTOR TRIP SWGR BREAKER TCB-6 COMPARTMENT 2B	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	2	CEDEBKR3919		CKTBRK		REACTOR TRIP SWGR BREAKER TCB-9 COMPARTMENT 3C	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	2	CEDEBKR3920	B	CKTBRK		REACTOR TRIP SWGR BREAKER TCB-7 COMPARTMENT 4C	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	2	CEDEBKR3920	A	CKTBRK		REACTOR TRIP SWGR BREAKER TCB-3 COMPARTMENT 4B	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	2	CEDEBKR3921	B	CKTBRK		REACTOR TRIP SWGR BREAKER TCB-8 COMPARTMENT 5D	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	2	CEDEBKR3921	A	CKTBRK		REACTOR TRIP SWGR BREAKER TCB-4 COMPARTMENT 5B	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	5	CHWMPMP0001	B	PUMP		CHILLED WATER PUMP B	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	5	CHWMPMP0001	A	PUMP		CHILLED WATER PUMP A	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CHWMVAAA578		VALVE		SWGR AUX SVSMAHU0002-A CHW OUTLET FCV	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CHWMVAAA591		VALVE		SWGR MAIN SVSMAHU0001-A CHW OUTLET FCV	Yes	No	Yes	No	Yes	I		No				Yes	

Table 1 – Base List 1 (BL 1)

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										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I/O)	High Temp / Humidity? (T/H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	7	CHWMVAAA603 VALVE		CONTROL RM HVCMAHU0001-A CHW OUTLET FCV	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**8**	**CHWMVAAA900 VALVE**		**SWGR MAIN SVSMAHU0001-B CHW OUTLET FCV**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**				**Yes**	
WF3	7	CHWMVAAA919 VALVE		CONTROL RM HVCMAHU0001-B CHW OUTLET FCV	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**7**	**CMUISV0407 B ICNTRL**		**SV FOR CMU-407B**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**				**Yes**	
WF3	8	CMUISV0407 A ICNTRL		SV FOR CMU-407A	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	8	CMUISV0524 B VALVE		EGD B JACKET WATER AUTO MAKEUP VALVE	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	CMUISV0524 A VALVE		EDG A JACKET WATER AUTO MAKEUP VALVE	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	5	CMUMPMP0004 B PUMP		COMPONENT COOLING WATER MAKEUP PUMP B	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	5	CMUMPMP0004 A PUMP		COMPONENT COOLING WATER MAKEUP PUMP A	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	21	CMUMPOL0001 ACCUMU		CONDENSATE STORAGE POOL	Yes	Yes	Yes	No	Yes	I		No				Yes	
WF3	7	CMUMVAAA538 B VALVE		CCW RETURN HEADER B MAKEUP CONTROL VALVE	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	CMUMVAAA538 A VALVE		CCW RETURN HEADER A MAKEUP CONTROL VALVE	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	21	CS MHX0001 B HTEXCH		SHUTDOWN COOLING HEAT EXCHANGER B	Yes	No	Yes	No	Yes	I		Yes				Yes	
WF3	**21**	**CS MHX0001 A HTEXCH**		**SHUTDOWN COOLING HEAT EXCHANGER A**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**				**Yes**	
WF3	5	CS MPMP0001 B PUMP		COMPONENT COOLING WATER PUMP B	Yes	No	Yes	Y	Yes	I		Yes				Yes	Yes
WF3	5	CS MPMP0001 A PUMP		COMPONENT COOLING WATER PUMP AB	Yes	No	Yes	Y	Yes	I		Yes				Yes	Yes
WF3	**7**	**CS MVAAA125 B VALVE**		**CONTAINMENT SPRAY HDR B ISOLATION**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**					**Yes**
WF3	7	CS MVAAA125 A VALVE		CONTAINMENT SPRAY HDR A ISOLATION	Yes	No	Yes	No	Yes	I		Yes					Yes
WF3	8	CVCISV0216 B VALVE		PRESSURIZER AUX SPRAY VALVE B	Yes	No	Yes	Y	Yes	I	T/H	Yes	Yes		Yes		
WF3	8	CVCISV0216 A VALVE		PRESSURIZER AUX SPRAY VALVE A	Yes	No	Yes	Y	Yes	I	T/H	Yes	Yes		Yes		
WF3	8	CVCISV0218 B VALVE		CHARGING LINE TO RCS LOOP 2A ISOLATION	Yes	No	Yes	Y	Yes	I	T/H	Yes	Yes		Yes		
WF3	8	CVCISV0218 A VALVE		CHARGING LINE TO RCS LOOP 1A ISOLATION	Yes	No	Yes	Y	Yes	I	T/H	Yes	Yes		Yes		
WF3	21	CVCMHX0001 HTEXCH		REGENATIVE HEAT EXCHANGER	Yes	No	Yes	No	Yes	I	T/H	Yes	Yes		Yes		
WF3	5	CVCMPMP0001 B PUMP		CHEMICAL VOLUME CONTROL CHARGING PUMP B	Yes	No	Yes	No	Yes	I		Yes	Yes		Yes		
WF3	5	CVCMPMP0001 A PUMP		CHEMICAL VOLUME CONTROL CHARGING PUMP A	Yes	No	Yes	No	Yes	I		Yes	Yes		Yes		
WF3	21	CVCMTNK0002 ACCUMU		VOLUME CONTROL TANK	Yes	No	Yes	No	Yes	I		Yes	Yes		Yes		
WF3	7	CVCMVAAA101 VALVE		LETDOWN STOP VALVE	Yes	No	Yes	No	Yes	I	T/H	Yes	Yes		Yes		

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I/O)	High Temp / Humidity? (T/H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	7	CVCMVAAA103 VALVE		LETDOWN INSIDE CONTAINMENT ISOLATION	Yes	No	Yes	No	Yes	I	T/H	Yes	Yes		Yes		Yes
WF3	7	CVCMVAAA109 VALVE		LETDOWN OUTSIDE CONTAINMENT ISOLATION	Yes	No	Yes	No	Yes	I		Yes	Yes		Yes		Yes
WF3	7	CVCMVAAA140 VALVE		LETDOWN TO HEAT EXCHANGERS INLET/BYPASS	Yes	No	Yes	No	Yes	I		Yes	Yes		Yes		
WF3	8	CVCMVAAA183 VALVE		VOLUME CONTROL TANK OUTLET ISOLATION	Yes	No	Yes	No	Yes	I		Yes	Yes		Yes		
WF3	**7**	**CVCMVAAA209 VALVE**		**CHARGING HEADER ISOLATION**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**	**Yes**		**Yes**		
WF3	7	CVCMVAAA401 VALVE		RCP CONTROL BLEEDOFF ISOLATION	Yes	No	Yes	No	Yes	I		Yes	Yes		Yes		
WF3	8	CVCMVAAA507 VALVE		RWSP TO CHARGING PUMPS SUCTION ISOLATION	Yes	No	Yes	No	Yes	I		Yes	Yes		Yes		
WF3	8	CVRISV0400 VALVE		CVR INST UPSTREAM CNTMT ISOL VLV - PEN 53	Yes	No	Yes	Y	Yes	I		No					Yes
WF3	8	CVRISV0401 VALVE		CVR INST DOWNSTREAM CNTMT ISOL VLV - PEN 53	Yes	No	Yes	Y	Yes	I		No					Yes
WF3	15	DC EBATA BATTRY		125V BAT & RACK 125VDC BATTERY A-S 60 CELLS	Yes	No	Yes	Y		I		No	Yes	Yes	Yes	Yes	Yes
WF3	15	DC EBATAB BATTRY		125V BAT & RACK 125VDC BATTERY AB-S 62 CELLS	Yes	No	Yes	Y		I		No	Yes	Yes	Yes	Yes	Yes
WF3	**15**	**DC EBATB BATTRY**		**125V BAT & RACK 125VDC BATTERY B-S 60 CELLS**	**Yes**	**No**	**Yes**	**Y**		**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	**16**	**DC EBC1A BATTRY**		**BATTERY CHARGER A1**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	16	DC EBC1B BATTRY		BATTERY CHARGER B1	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	16	DC EBC2A BATTRY		BATTERY CHARGER A2	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	16	DC EBC2B BATTRY		BATTERY CHARGER B2	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	14	DC EPDP1A DC PANEL		PDP A1-DC	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	14	DC EPDP1B DC PANEL		PDP B1-DC	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	14	DC EPDPA DC PANEL		PDP A-DC	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	14	DC EPDPAB DC PANEL		PDP AB-DC	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**14**	**DC EPDPB DC PANEL**		**PDP B-DC**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	20	EDGB RTGB ISOL PNL		EDGB RTGB ISOLATION PANEL	Yes	No	Yes		Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	18	EFWIFIS8330 B IBISSW		EMERGENCY FEEDWATER HDR B TO STEAM GENERATOR 2 FIS	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	18	EFWIFIS8330 A IBISSW		EMERGENCY FEEDWATER HDR A TO STEAM GENERATOR 1 FIS	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	18	EFWIFIS8331 B IBISSW		EMERGENCY FEEDWATER HDR A TO STEAM GENERATOR 1 FIS	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	18	EFWIFIS8331 A IBISSW		EMERGENCY FEEDWATER HDR B TO STEAM GENERATOR 2 FIS	Yes	No	Yes	No	Yes	I		No				Yes	

Table 1 – Base List 1 (BL 1)

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												Environment?							
							Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I/O)	High Temp / Humidity? (T/H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	5	EFWMPMP0001	B	PUMP		EMERGENCY FEEDWATER PMP B	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	**5**	**EFWMPMP0001**	**AB**	**PUMP**		**EMERGENCY FEEDWATER PUMP AB**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**				**Yes**	
WF3	5	EFWMPMP0001	A	PUMP		EMERGENCY FEEDWATER PMP A	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	**7**	**EFWMVAAA223**	**B**	**VALVE**		**EMERGENCY FEEDWATER HDR B TO SG2 BACKUP FLOW CNTRL**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**				**Yes**	
WF3	7	EFWMVAAA223	A	VALVE		EMERGENCY FEEDWATER HDR A TO SG1 BACKUP FLOW CNTRL	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	EFWMVAAA224	B	VALVE		EMERGENCY FEEDWATER HDR B TO SG2 PRIMARY FLOW CNTRL	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	EFWMVAAA224	A	VALVE		EMERGENCY FEEDWATER HDR A TO SG1 PRIMARY FLOW CNTRL	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	EFWMVAAA228	B	VALVE		EMERGENCY FEEDWATER TO SG2 PRIMARY ISOLATION	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	EFWMVAAA228	A	VALVE		EMERGENCY FEEDWATER TO SG1 PRIMARY ISOLATION	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	**7**	**EFWMVAAA229**	**B**	**VALVE**		**EMERGENCY FEEDWATER TO SG2 BACKUP ISOLATION**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**				**Yes**	
WF3	7	EFWMVAAA229	A	VALVE		EMERGENCY FEEDWATER TO SG1 BACKUP ISOLATION	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	**20**	**EG ECP6850**	**B**	**PANEL**		**DIESEL GEN B ENGINE CONTROL PANEL**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	20	EG ECP6850	A	PANEL		DIESEL GEN A ENGINE CONTROL PANEL	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	20	EG ECP6852	B	PANEL		DIESEL GEN B CONTROL PANEL	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	20	EG ECP6852	A	PANEL		DIESEL GEN A CONTROL PANEL	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**17**	**EG MDSG0001**	**B**	**GENERA**		**EMERGENCY DIESEL GENERATOR B**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	17	EG MDSG0001	A	GENERA		EMERGENCY DIESEL GENERATOR A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**8**	**EGAISV0411**	**B**	**VALVE**		**EG B EMERGENCY MODE FUEL CONTROL #2**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	8	EGAISV0412	B	VALVE		EG B EMERGENCY MODE FUEL CONTROL #1	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	12	EGAMCMP0001	B	BLOWER		EG B AIR COMPRESSOR B1	Yes	No	Yes	No		I		No	Yes	Yes	Yes	Yes	Yes
WF3	**12**	**EGAMCMP0001**	**A**	**BLOWER**		**EG A AIR COMPRESSOR A1**	**Yes**	**No**	**Yes**	**No**		**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	12	EGAMCMP0002	B	BLOWER		EG B AIR COMPRESSOR B2	Yes	No	Yes	No		I		No	Yes	Yes	Yes	Yes	Yes
WF3	12	EGAMCMP0002	A	BLOWER		EG A AIR COMPRESSOR A2	Yes	No	Yes	No		I		No	Yes	Yes	Yes	Yes	Yes

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID			SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
												Environment?							
							Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I/O)	High Temp / Humidity? (T/H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	21	EGAMRCR0001	B	ACCUMU		(AIR RECEIVER) EGA AIR RECEIVER B1	Yes	No	Yes	No		I		No	Yes	Yes	Yes	Yes	Yes
WF3	21	EGAMRCR0001	A	ACCUMU		(AIRECEIVER) EGA AIR RCVR A1	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	21	EGAMRCR0001	A	ACCUMU		(AIRECEIVER) EGA AIR RCVR A1	Yes	No	Yes	No		I		No	Yes	Yes	Yes	Yes	Yes
WF3	21	EGAMRCR0002	B	ACCUMU		(AIR RECEIVER) EGA AIR RECEIVER B2	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**21**	**EGAMRCR0002**	**A**	**ACCUMU**		**(AIR RECEIVER) EGA AIR RECEIVER A2**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	18	EGCILS1980	B	IBISSW		EG SEAL WATER STANDPIPE LEVEL	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	18	EGFILT6903	B	IXMITR		DIESEL OIL FEED TNK B LVL TRANSMITTER	Yes	No	Yes	No	Yes	O	H	No	Yes	Yes	Yes	Yes	Yes
WF3	**18**	**EGFILT6903**	**A**	**IXMITR**		**DIESEL OIL FEED TNK A LVL TRANSMITTER**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	5	EGFMPMP0001	B	PUMP		DIESEL OIL TRANSFER PUMP B	Yes	No	Yes	No	Yes	O	H	No	Yes	Yes	Yes	Yes	Yes
WF3	**5**	**EGFMPMP0001**	**A**	**PUMP**		**DIESEL OIL TRANSFER PUMP A**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	21	EGFMTNK0001	B	ACCUMU		FUEL OIL STORAGE TANK B	Yes	No	Yes	No	Yes	O	H	No	Yes	Yes	Yes	Yes	Yes
WF3	**21**	**EGFMTNK0001**	**A**	**ACCUMU**		**FUEL OIL STORAGE TANK A**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	21	EGFMTNK0002	B	ACCUMU		EDG B FUEL OIL FEED TANK	Yes	No	Yes	No	Yes	O	H	No	Yes	Yes	Yes	Yes	Yes
WF3	21	EGFMTNK0002	A	ACCUMU		EDG A FUEL OIL FEED TANK	Yes	No	Yes	No	Yes	O	H	No	Yes	Yes	Yes	Yes	Yes
WF3	20	ESFECP0001	B	PANEL		ESFAS CABINETS	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	**20**	**ESFECP0001**	**A**	**PANEL**		**ESFAS CABINETS**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**				**Yes**	
WF3	0	FW MVAAA1763	B	VALVE		FEEDWATER TO EFW HEADER B PRESSURIZING CHECK VALVE	Yes	No	Yes	No	Yes	O	H	No		Yes			
WF3	8	FW MVAAA179	B	VALVE		FEEDWATER LINE 2 TO BLOWDOWN ISOLATION	Yes	No	Yes	No	Yes	O	H	No		Yes			
WF3	8	FW MVAAA179	A	VALVE		FEEDWATER LINE 1 TO BLOWDOWN ISOLATION	Yes	No	Yes	No	Yes	O	H	No		Yes			
WF3	7	FW MVAAA184	B	VALVE		SG 2 MAIN FEEDWATER ISOLATION	Yes	No	Yes	Y	Yes	O	H	No					Yes
WF3	7	FW MVAAA184	A	VALVE		SG 1 MAIN FEEDWATER ISOLATION	Yes	No	Yes	Y	Yes	O	H	No					Yes
WF3	7	GWMMVAAA104		VALVE		CONTAINMENT VENT HEADER INSIDE CONTAINMENT ISOL	Yes	No	Yes	No	Yes	I	T/H	No					Yes
WF3	8	HRAISV0101	B	VALVE		CONTAINMENT DOME AREA HRA B SAMPLE ISOLATION	Yes	No	Yes	No	Yes	I	T/H	No					Yes
WF3	8	HRAISV0101	A	VALVE		CONTAINMENT DOME AREA HRA A SAMPLE ISOLATION	Yes	No	Yes	No	Yes	I	T/H	No					Yes
WF3	8	HRAISV0109	B	VALVE		HRA CNTMT SAMPLE HEADER B INSIDE CONTAINMENT ISOL	Yes	No	Yes	No	Yes	I	T/H	No					Yes
WF3	8	HRAISV0109	A	VALVE		HRA CNTMT SAMPLE HEADER A INSIDE CONTAINMENT ISOL	Yes	No	Yes	No	Yes	I	T/H	No					Yes
WF3	8	HRAISV0110	B	VALVE		HRA CNTMT SAMPLE HEADER B OUTSIDE CONTAINMENT ISOL	Yes	No	Yes	No	Yes	I		No					Yes

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I/O)	High Temp / Humidity? (T/H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	8	HRAISV0110 A VALVE		HRA CNTMT SAMPLE HEADER A OUTSIDE CONTAINMENT	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	HRAISV0126 B VALVE		HRA CONTAINMENT SAMPLE RETURN HEADER B ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	HRAISV0126 A VALVE		HRA CONTAINMENT SAMPLE RETURN HEADER A ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	HRAISV0201 B VALVE		ANNULUS DOME AREA HRA B SAMPLE ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	HRAISV0201 A VALVE		ANNULUS DOME AREA HRA A SAMPLE ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	HRAISV0202 B VALVE		HRA ANNULUS SAMPLE RETURN HEADER B ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	HRAISV0202 A VALVE		HRA ANNULUS SAMPLE RETURN HEADER A ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	HRAISV2011 VALVE		CNTMT ATMOS GRAB SAMPLER TO HRA SAMPLE HDR B STOP	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	HRAISV20121 VALVE		HRA SAMPLE HDR B TO CNTMT ATMOS GRAB SAMPLER STOP	Yes	No	Yes	No	Yes	I		No					Yes
WF3	**9**	**HVCMAHU0001 A BLOWER**		**CONTROL ROOM AIR HANDLING UNIT AH-12A**	**Yes**	**No**	**Yes**		**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	**10**	**HVCMAHU0009 A BLOWER**		**CONTROL ROOM EMER FILTRATION UNIT A**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	10	HVCMAHU0013 B BLOWER		CONTROL ROOM HVAC ROOM AIR HANDLING UNIT AH-26B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	10	HVCMAHU0013 A BLOWER		CONTROL ROOM HVAC ROOM AIR HANDLING UNIT AH-26A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	9	HVCMFAN0002 B BLOWER		CONTROL ROOM AIR HANDLING UNIT B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**9**	**HVCMFAN0010 B BLOWER**		**CONTROL ROOM EMER FILTRATION UNIT B**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	7	HVCMVAAA101 VALVE		CONTROL ROOM NORMAL OAI DOWNSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVCMVAAA102 VALVE		CONTROL ROOM NORMAL OAI UPSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVCMVAAA103 B VALVE		CONTROL ROOM AIR HANDLING UNIT B INLET ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVCMVAAA103 A VALVE		CONTROL ROOM AIR HANDLING UNIT A INLET ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVCMVAAA105 B VALVE		CONTROL ROOM AIR HANDLING UNIT B RECIRC DAMPER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVCMVAAA105 A VALVE		CONTROL ROOM AIR HANDLING UNIT A RECIRC DAMPER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	8	HVCMVAAA201 B VALVE		CR EMERG FLTR UNIT NORTH OAI UPSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	HVCMVAAA201 A VALVE		CR EMERG FLTR UNIT NORTH OAI UPSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	HVCMVAAA202 B VALVE		CR EMERG FLTR UNIT NORTH OAI DOWNSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	HVCMVAAA202 A VALVE		CR EMERG FLTR UNIT NORTH OAI DOWNSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	HVCMVAAA203 A VALVE		CR EMERG FLTR UNIT SOUTH OAI UPSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	HVCMVAAA204 A VALVE		CR EMERG FLTR UNIT SOUTH OAI DOWNSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVCMVAAA205 B VALVE		CONTROL ROOM EMERG FLTR B INLET DAMPER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**7**	**HVCMVAAA205 A VALVE**		**CONTROL ROOM EMERG FLTR A INLET DAMPER**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	7	HVCMVAAA304 B VALVE		CONTROL RM TOILET EXH FAN BYPASS DAMPER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVCMVAAA304 A VALVE		CONTROL RM TOILET EXH FAN BYPASS DAMPER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVCMVAAA306 VALVE		CONTROL RM TOILET EXH FAN UPSTREAM EXHAUST DAMPER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVCMVAAA307 VALVE		CONTROL RM TOILET EXH FAN DNSTREAM EXHAUST DAMPER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVCMVAAA313 VALVE		KITCHEN/CONFERENCE RM EXH FAN UPSTREAM ISOL	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVCMVAAA314 VALVE		KITCHEN/CONFERENCE RM EXH FAN DOWNSTREAM ISOL	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	HVRISV0501 B ICNTRL		DIESEL GENERATOR ROOM B INTK DAMPER SOLENOID VLV	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	HVRISV0501 A4 ICNTRL		SV FOR HVR-501A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	HVRISV0501 A3 ICNTRL		SV FOR HVR-501A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	HVRISV0501 A2 ICNTRL		SV FOR HVR-501A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	HVRISV0501 A1 ICNTRL		SV FOR HVR-501A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	10	HVRMAHU0020 A BLOWER		CONTROLLED VENT AREA EXH FAN A	Yes	No	Yes	No	Yes	I		No					Yes
WF3	10	HVRMAHU0022 B BLOWER		RAB+46 HVAC RM AIR HDLNG UNIT AH-13B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	10	HVRMAHU0022 A BLOWER		RAB+46 HVAC RM AIR HNDLG UNIT AH-13A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	10	HVRMAHU0026 B BLOWER		CCW HX ROOM B AIR HANDLING UNIT AH-24B	Yes	No	Yes	No	Yes	I		No				Yes	

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	10	HVRMAHU0026 A BLOWER		CCW HX ROOM A AIR HANDLING UNIT AH-24A	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	10	HVRMAHU0028 B BLOWER		CCW PUMP ROOM B AIR HANDLING UNIT AH-10B	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	**10**	**HVRMAHU0028 A BLOWER**		**CCW PUMP ROOM A AIR HANDLING UNIT AH-10A**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**				**Yes**	
WF3	**10**	**HVRMAHU0032 B BLOWER**		**SHUTDOWN COOLING HX B AIR HANDLING UNIT AH-3B**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**				**Yes**	
WF3	10	HVRMAHU0032 A BLOWER		SHUTDOWN COOLING HX A AIR HANDLING UNIT AH-3A	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	10	HVRMAHU0034 B BLOWER		SAFEGUARDS ROOM B AIR HANDLING UNIT AH-2B	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	10	HVRMAHU0034 A BLOWER		SAFEGUARDS ROOM A AIR HANDLING UNIT AH-2A	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	10	HVRMAHU0036 B BLOWER		SAFEGUARDS ROOM B AIR HANDLING UNIT AH-2D	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	10	HVRMAHU0036 A BLOWER		SAFEGUARDS ROOM A AIR HANDLING UNIT AH-2C	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	10	HVRMAHU0038 B BLOWER		EFW PUMP ROOM B AIR HANDLING UNIT AH-17B	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	10	HVRMAHU0038 A BLOWER		EFW PUMP ROOM A AIR HANDLING UNIT AH-17A	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	10	HVRMAHU0040 B BLOWER		CHARGING PUMP ROOM B AIR HANDLING UNIT AH-18B	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	10	HVRMAHU0040 A BLOWER		CHARGING PUMP ROOM A AIR HANDLING UNIT AH-18A	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	9	HVRMFAN0021 B BLOWER		CONTROLLED VENT AREA SYS B EXHAUST FAN E-23(3B-SB)	Yes	No	Yes	No	Yes	I		No					Yes
WF3	9	HVRMFAN0024 B BLOWER		RAB+46 HVAC ROOM EXHAUST FAN E-41B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	9	HVRMFAN0024 A BLOWER		RAB+46 HVAC ROOM EXHAUST FAN E-41A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	9	HVRMFAN0025 B BLOWER		EDG ROOM B EXHAUST FAN E-28B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**9**	**HVRMFAN0025 A BLOWER**		**EDG ROOM A EXHAUST FAN E-28A**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	7	HVRMVAAA104 VALVE		RAB NORMAL SUPPLY TO RB-4 UPSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVRMVAAA105 VALVE		RAB NORMAL SUPPLY TO RB-4 DOWNSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVRMVAAA106 VALVE		RAB NORMAL SUPPLY TO CVAS UPSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	**7**	**HVRMVAAA107 VALVE**		**RAB NORMAL SUPPLY TO CVAS DOWNSTREAM ISOLATION**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**					**Yes**
WF3	7	HVRMVAAA108 VALVE		CVAS AREAS TO RAB NORMAL EXHAUST UPSTREAM ISOL	Yes	No	Yes	No	Yes	I		No					Yes

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	7	HVRMVAAA109 VALVE		CVAS AREAS TO RAB NORMAL EXHAUST DOWNSTREAM ISOL	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	HVRMVAAA110 VALVE		CCW HX RM A PIPE CHASE TO RAB NORM EXH UPSTRM ISOL	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	HVRMVAAA111 VALVE		CCW HX RM A PIPE CHASE TO RAB NORM EXH DNSTRM ISOL	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	7	HVRMVAAA301 VALVE		CVAS AREAS EXHAUST TO CVAS FILTER TRAIN B	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	HVRMVAAA302 VALVE		CVAS AREAS EXHAUST TO CVAS FILTER TRAIN A	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	HVRMVAAA303 B VALVE		CVAS FILTER TRAIN B MINIMUM FLOW INLET	Yes	No	Yes	No	Yes	I		No					Yes
WF3	**7**	**HVRMVAAA303 A VALVE**		**CVAS FILTER TRAIN A MINIMUM FLOW INLET**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**					**Yes**
WF3	8	HVRMVAAA304 B VALVE		CVAS FILTER TRAIN B INLET	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	HVRMVAAA304 A VALVE		CVAS FILTER TRAIN A INLET	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	HVRMVAAA313 B VALVE		CVAS EXHAUST FAN B SUCTION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	HVRMVAAA313 A VALVE		CVAS EXHAUST FAN A SUCTION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	HVRMVAAA403 B VALVE		RCA HVAC ROOM AHU B RECIRC	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVRMVAAA403 A VALVE		RCA HVAC ROOM AHU A RECIRC	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVRMVAAA501 B VALVE		EG B ROOM OUTSIDE AIR INTAKE DAMPER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVRMVAAA501 A VALVE		EG A ROOM OUTSIDE AIR INTAKE DAMPER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	HVRMVAAA502 B VALVE		EG B ROOM EXHAUST FAN VARIABLE PITCH BLADE	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**7**	**HVRMVAAA502 A VALVE**		**EG A ROOM EXHAUST FAN VARIABLE PITCH BLADE**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	**7**	**IA MVAAA909 VALVE**		**IA ISOL TO CONTAINMENT @ PEN #9**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**					**Yes**
WF3	20	IC EAUX1 PANEL		AUXILIARY PANEL 1(SA)	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**20**	**IC EAUX2 PANEL**		**AUXILIARY PANEL 2(SB)**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	20	IC ECP01 PANEL		TURBINE CONTROL PANEL	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	20	IC ECP02 PANEL		REACTOR CONTROL PANEL CP2	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes		
WF3	20	IC ECP04 PANEL		CHEMICAL & VOLUME CONTROL PANEL	Yes	No	Yes	No	Yes	I		No	Yes		Yes		
WF3	20	IC ECP06 PANEL		COMPUTER DISPLAY PANEL	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	20	IC ECP07 PANEL		REACTOR PROTECTION ENGINEERED SAFETY FEATURE	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	
WF3	**20**	**IC ECP08 PANEL**		**ENGINEERED SAFEGUARD CONTRL PANEL CP8**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	20	IC ECP10 PANEL		PLANT PROTECTION SYSTEM CONTROL PANEL	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	20	IC ECP18 PANEL		HVAC, CONTAINMENT ISOLATION CONTROL PANEL	Yes	No	Yes	No	Yes	I		No					Yes
WF3	**20**	**IC ECP22 PANEL**		**CORE PROTECTION CALCULATORS**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**				
WF3	20	IC ECP25 PANEL		PROCESS ANALOG CONTROL PROTECTIVE CHANNEL A	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	**20**	**IC ECP26 PANEL**		**PROCESS ANALOG CONTROL PROTECTIVE CHANNEL B**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**				
WF3	20	IC ECP27 PANEL		PROCESS ANALOG CONTROL PROTECTIVE CHANNEL C	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	20	IC ECP28 PANEL		PROCESS ANALOG CONTROL PROTECTIVE CHANNEL D	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	20	IC ECP33 PANEL		COOLING TOWERS CONTROL PANEL	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	20	IC ECP41 PANEL		PROCESS ANALOG CONTROL TRAIN A BOP	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	20	IC ECP42 PANEL		PROCESS ANALOG CONTROL TRAIN A BOP	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	20	IC ECP43 PANEL		PROCESS ANALOG CONTROL TRAIN A/B BOP	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	20	IC ECP44 PANEL		PROCESS ANALOG CONTROL TRAIN B BOP	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	20	IC ECP45 PANEL		PROCESS ANALOG CONTROL TRAIN B BOP	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	20	IC ECP48 PANEL		PROCESS ANALOG CONTROL TRAIN A BOP	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	20	IC ECP49 PANEL		PROCESS ANALOG CONTROL TRAIN B BOP	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**20**	**IC ELCP61 PANEL**		**LOCAL CONTROL PANEL PAC LCP-61**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	20	IC ELCP62 PANEL		LOCAL CONTROL PANEL PAC LCP-62	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	20	IC EPNLISOL 1 PANEL		ISOLATION PANEL	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	18	IC ICDC1 D PANEL		INSTRUMENT CABINET C-1D	Yes	No	Yes	No	Yes	I	T / H	No		Yes		Yes	
WF3	**18**	**IC ICDC1 C PANEL**		**INSTRUMENT CABINET C-1C**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**	**T / H**	**No**		**Yes**		**Yes**	
WF3	18	IC ICDC10 PANEL		INSTRUMENT CABINET C-10	Yes	No	Yes	No	Yes	I	T / H	No				Yes	
WF3	18	IC ICDC11 B PANEL		INSTRUMENT CABINET C-11B	Yes	No	Yes	No	Yes	I		No					Yes
WF3	20	IC ICDC11 A PANEL		INSTRUMENT CABINET C-11A	Yes	No	Yes	No	Yes	I		No			Yes		Yes
WF3	**18**	**IC ICDC12 PANEL**		**INSTRUMENT CABINET C-12**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**					**Yes**
WF3	18	IC ICDC2 B PANEL		INSTRUMENT CABINET C-2B	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	18	IC ICDC2 A PANEL		INSTRUMENT CABINET C-2A	Yes	No	Yes	No	Yes	I	T / H	No					Yes
WF3	18	IC ICDC23 PANEL		INSTRUMENT CABINET C-23	Yes	No	Yes	No	Yes	I		No				Yes	

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	18	IC ICDC26 B PANEL		INSTRUMENT CABINET C-26B	Yes	No	Yes	No	Yes	I		No				Yes	Yes
WF3	20	IC ICDC26 A PANEL		INSTRUMENT CABINET C-26A	Yes	No	Yes	No	Yes	I		No				Yes	Yes
WF3	18	IC ICDC31 PANEL		INSTRUMENT CABINET C-31	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	20	IC ICDC35 A PANEL		INSTRUMENT CABINET C-35A	Yes	No	Yes	No	Yes	I		No					Yes
WF3	18	IC ICDC39 PANEL		INSTRUMENT CABINET C-39	Yes	No	Yes	No	Yes			No				Yes	
WF3	18	IC ICDC40 PANEL		INSTRUMENT CABINET C-40	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	18	IC ICDC7 PANEL		INSTRUMENT CABINET C-7	Yes	No	Yes	No	Yes	I	T / H	No				Yes	
WF3	18	IC ICDC8 PANEL		INSTRUMENT CABINET C-8	Yes	No	Yes	No	Yes	I	T / H	No				Yes	
WF3	**18**	**IC ICDC9 PANEL**		**INSTRUMENT CABINET C-9**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**	**T / H**	**No**				**Yes**	
WF3	4	ID EMTA TRANSF		BYPASS TRANSFORMER ISOLIMITER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	4	ID EMTB TRANSF		BYPASS TRANSFORMER ISOLIMITER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	4	ID EMTMA B TRANSF		SUPS INVERTER MA AC INPUT MAIN TRANSFORMER	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	4	ID EMTMB B TRANSF		SUPS INVERTER MB AC INPUT MAIN TRANSFORMER	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	4	ID EMTMC B TRANSF		SUPS INVERTER MC AC INPUT MAIN TRANSFORMER	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	**4**	**ID EMTMD B TRANSF**		**SUPS INVERTER MD AC INPUT MAIN TRANSFORMER**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**				
WF3	14	ID EPDP90A PANEL		PDP 90A SUPS A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	14	ID EPDP91B PANEL		PDP 91B SUPS B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	14	ID EPDPMA PANEL		PDP MA NUCLEAR INST CHANNEL A	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	14	ID EPDPMB PANEL		PDP MB NUCLEAR INST CHANNEL B	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	14	ID EPDPMC PANEL		PDP MC NUCLEAR INST CHANNEL C	Yes	No	Yes	No	Yes	I		No	Yes				
WF3	**14**	**ID EPDPMD PANEL**		**PDP MD NUCLEAR INST CHANNEL D**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**				
WF3	20	LCP-82A		FOR 2MS-V602A, MS ISOL VALVE	Yes	No	Yes		Yes	O	H	No		Yes			Yes
WF3	20	LCP-83A,B		LCP-83A FOR 2MS-V604B	Yes	No	Yes		Yes	O	H	No		Yes			Yes
WF3	20	LCS E-41(3A-SA)		LCS E-41(3A-SA)	Yes	No	Yes		Yes	I		No					
WF3	20	LCS E-41(3B-SB)		LCS E-41(3B-SB)	Yes	No	Yes		Yes	O	H	No					
WF3	20	LOC CNTL STA for AH-25(3B-SB)		LOC CNTL STA for AH-25(3B-SB)	Yes	No	Yes		Yes	I		No					
WF3	20	LOCAL STR for 2MS-V604B		LOCAL STR for 2MS-V604B	Yes	No	Yes		Yes	O	H	No		Yes			Yes
WF3	14	LVDEPDP94A PANEL		PDP 94A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	14	LVDEPDP95B PANEL		PDP 95B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	0	MS MVAAA106 B VALVE		MAIN STEAM LINE 2 SAFETY #1	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	**0**	**MS MVAAA106 A VALVE**		**MAIN STEAM LINE 1 SAFETY #1**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**				**Yes**	

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I/O)	High Temp / Humidity? (T/H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	0	MS MVAAA108 B VALVE		MAIN STEAM LINE 2 SAFETY #2	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	0	MS MVAAA108 A VALVE		MAIN STEAM LINE 1 SAFETY #2	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	MS MVAAA110 B VALVE		MAIN STEAM LINE 2 SAFETY #3	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	MS MVAAA110 A VALVE		MAIN STEAM LINE 1 SAFETY #3	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	MS MVAAA112 B VALVE		MAIN STEAM LINE 2 SAFETY #4	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	MS MVAAA112 A VALVE		MAIN STEAM LINE 1 SAFETY #4	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	MS MVAAA113 B VALVE		MAIN STEAM LINE 2 SAFETY #5	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	MS MVAAA113 A VALVE		MAIN STEAM LINE 1 SAFETY #5	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	MS MVAAA114 B VALVE		MAIN STEAM LINE 2 SAFETY #6	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	MS MVAAA114 A VALVE		MAIN STEAM LINE 1 SAFETY #6	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	7	MS MVAAA116 B VALVE		STEAM GENERATOR 2 ATMOSPHERE DUMP VALVE	Yes	No	Yes	Yes	Yes	O	H	No				Yes	
WF3	**7**	**MS MVAAA116 A VALVE**		**STEAM GENERATOR 1 ATMOSPHERE DUMP VALVE**	**Yes**	**No**	**Yes**	**Yes**	**Yes**	**O**	**H**	**No**				**Yes**	
WF3	8	MS MVAAA119 B VALVE		MSIV 2 UPSTREAM DRIP POT STARTUP DRAIN	Yes	No	Yes	No	Yes	O	H	No					Yes
WF3	8	MS MVAAA119 A VALVE		MSIV 1 UPSTREAM DRIP POT STARTUP DRAIN	Yes	No	Yes	No	Yes	O	H	No					Yes
WF3	8	MS MVAAA120 B VALVE		MSIV 2 UPSTREAM DRIP POT NORMAL DRAIN	Yes	No	Yes	No	Yes	O	H	No					Yes
WF3	**8**	**MS MVAAA120 A VALVE**		**MSIV 1 UPSTREAM DRIP POT NORMAL DRAIN**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**					**Yes**
WF3	**7**	**MS MVAAA124 B VALVE**		**MAIN STEAM ISOLATION VALVE 2**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**		**Yes**			**Yes**
WF3	7	MS MVAAA124 A VALVE		MAIN STEAM ISOLATION VALVE 1	Yes	No	Yes	No	Yes	O	H	No		Yes			Yes
WF3	8	MS MVAAA401 B VALVE		EFW PUMP AB TURBINE STEAM SUPPLY FROM S/G 2	Yes	No	Yes	No	Yes	O	H	No		Yes		Yes	Yes
WF3	**8**	**MS MVAAA401 A VALVE**		**EFW PUMP AB TURBINE STEAM SUPPLY FROM S/G 1**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**		**Yes**		**Yes**	**Yes**
WF3	18	NG IPIS0940 A IBISSW		NITROGEN HEADER 1 PRESS INDICATING SWITCH	Yes	No	Yes	No	Yes	I		No					Yes
WF3	18	NG IPIS0941 B IBISSW		NITROGEN HEADER 2 PRESS INDICATING SWITCH	Yes	No	Yes	No	Yes	I		No					Yes
WF3	18	NG IPIS0942 A IBISSW		NITROGEN HEADER 3 PRESS INDICATING SWITCH	Yes	No	Yes	No	Yes	I		No					Yes
WF3	18	NG IPIS0943 B IBISSW		NITROGEN HEADER 4 PRESS INDICATING SWITCH	Yes	No	Yes	No	Yes	I		No					Yes
WF3	18	NG IPIS0944 A IBISSW		NITROGEN HEADER 5 PRESS INDICATING SWITCH	Yes	No	Yes	No	Yes	O	H	No					Yes

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										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I/O)	High Temp / Humidity? (T/H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	**18**	**NG IPIS0945 B IBISSW**		**NITROGEN HEADER 6 PRESS INDICATING SWITCH**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**					**Yes**
WF3	18	NG IPIS0947 B IBISSW		NITROGEN HEADER 8 PRESS INDICATING SWITCH	Yes	No	Yes	No	Yes	O	H	No					Yes
WF3	8	NG ISV0609 VALVE		NITROGEN ACCUMULATOR #1 OUTLET STOP	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	NG ISV0610 VALVE		NITROGEN ACCUMULATOR #2 OUTLET STOP	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	NG ISV0709 VALVE		NITROGEN ACCUMULATOR #3 OUTLET STOP	Yes	No	Yes	No	Yes	I		No					Yes
WF3	8	NG ISV0710 VALVE		NITROGEN ACCUMULATOR #4 OUTLET STOP	Yes	No	Yes	No	Yes	I		No					Yes
WF3	**8**	**NG ISV0809 VALVE**		**NITROGEN ACCUMULATOR #5 OUTLET STOP**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**					**Yes**
WF3	8	NG ISV0810 VALVE		NITROGEN ACCUMULATOR #6 OUTLET STOP	Yes	No	Yes	No	Yes	O	H	No					Yes
WF3	8	NG ISV0909 VALVE		NITROGEN ACCUMULATOR #7 OUTLET STOP	Yes	No	Yes	No	Yes	O	H	No					Yes
WF3	8	NG ISV0910 VALVE		NITROGEN ACCUMULATOR #8 OUTLET STOP	Yes	No	Yes	No	Yes	O	H	No					Yes
WF3	21	NG MACC0001 ACCUMU		NITROGEN ACCUMULATOR #1	Yes	No	Yes	No	Yes	I		No					Yes
WF3	21	NG MACC0002 ACCUMU		NITROGEN ACCUMULATOR #2	Yes	No	Yes	No	Yes	I		No					Yes
WF3	**21**	**NG MACC0003 ACCUMU**		**NITROGEN ACCUMULATOR #3**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**					**Yes**
WF3	21	NG MACC0004 ACCUMU		NITROGEN ACCUMULATOR #4	Yes	No	Yes	No	Yes	I		No					Yes
WF3	21	NG MACC0005 ACCUMU		NITROGEN ACCUMULATOR #5	Yes	No	Yes	No	Yes	O	H	No					Yes
WF3	21	NG MACC0006 ACCUMU		NITROGEN ACCUMULATOR #6	Yes	No	Yes	No	Yes	O	H	No					Yes
WF3	21	NG MACC0007 ACCUMU		NITROGEN ACCUMULATOR #7	Yes	No	Yes	No	Yes	O	H	No					Yes
WF3	21	NG MACC0008 ACCUMU		NITROGEN ACCUMULATOR #8	Yes	No	Yes	No	Yes	O	H	No					Yes
WF3	7	NG MVAAA157 VALVE		CONTAINMENT NG SUPPLY OUTSIDE ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	20	PACEPNL IPM C PANEL		PROCESS ANALOG CONTROL POWER ISOLATION PANEL	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	PSLMVAAA105 VALVE		RCS HOT LEG #1 SAMPLE INSIDE CONTAINMENT ISOL	Yes	No	Yes	No	Yes	I	T/H	Yes					Yes
WF3	7	PSLMVAAA107 VALVE		RCS HOT LEG #1 SAMPLE OUTSIDE CONTAINMENT ISOL	Yes	No	Yes	No	Yes	I		Yes					Yes
WF3	7	PSLMVAAA203 VALVE		PZR SURGE LINE SAMPLE INSIDE CONTAINMENT ISOL	Yes	No	Yes	No	Yes	I	T/H	Yes					Yes

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Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	7	PSLMVAAA204 VALVE		PZR SURGE LINE SAMPLE OUTSIDE CONTAINMENT ISOL	Yes	No	Yes	No	Yes	I		Yes					Yes
WF3	7	PSLMVAAA303 VALVE		PZR STEAM SPACE SAMPLE INSIDE CONTAINMENT ISOL	Yes	No	Yes	No	Yes	I	T / H	Yes					Yes
WF3	7	PSLMVAAA304 VALVE		PZR STEAM SPACE SAMPLE OUTSIDE CONTAINMENT ISOL	Yes	No	Yes	No	Yes	I		Yes					Yes
WF3	18	RC IPT0106 B IXMITR		REACTOR COOLANT LOOP 2 HOT LEG PRESSURE IXMITR	Yes	No	Yes	No	Yes	I	T / H	No		Yes			
WF3	18	RC IPT0106 A IXMITR		REACTOR COOLANT LOOP 1 HOT LEG PRESSURE IXMITR	Yes	No	Yes	No	Yes	I	T / H	No		Yes			
WF3	18	RC IPT9120 B IXMITR		PRESSURIZER PRESSURE WIDE RANGE RCS PRESSURE	Yes	No	Yes	No	Yes	I	T / H	No		Yes			
WF3	18	RC IPT9120 A IXMITR		PRESSURIZER PRESSURE WIDE RANGE RCS PRESSURE	Yes	No	Yes	No	Yes	I	T / H	No		Yes			
WF3	**8**	**RC ISV1014 VALVE**		**REACTOR VESSEL VENT TO QUENCH TANK ISOLATION**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**	**T / H**	**Yes**				**Yes**	
WF3	8	RC ISV1015 VALVE		REACTOR VESSEL VENT TO QUENCH TANK ISOLATION	Yes	No	Yes	No	Yes	I	T / H	Yes				Yes	
WF3	8	RC ISV1017 VALVE		REACTOR/PRESSURIZER VENTS TO QUENCH TANK HDR ISOL	Yes	No	Yes	No	Yes	I	T / H	Yes				Yes	
WF3	8	RC ISV3183 VALVE		PRESSURIZER VENT TO QUENCH TANK	Yes	No	Yes	No	Yes	I	T / H	Yes		Yes			
WF3	**8**	**RC ISV3184 VALVE**		**PRESSURIZER VENT TO QUENCH TANK**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**	**T / H**	**Yes**		**Yes**			
WF3	8	RC ISV3186 VALVE		REACTOR/PRESSURIZER VENT TO QUENCH TANK ISOLATION	Yes	No	Yes	No	Yes	I	T / H	Yes		Yes			
WF3	19	RC ITE0112 HB1 IXMITR		REACTOR COOLANT LOOP 1 HOT LEG TEMPERATURE	Yes	No	Yes	No	Yes	I	T / H	No		Yes			
WF3	19	RC ITE0112 HA1 IXMITR		REACTOR COOLANT LOOP 1 HOT LEG TEMPERATURE	Yes	No	Yes	No	Yes	I	T / H	No		Yes			
WF3	18	RC ITE0112 CB1 IXMITR		REACTOR COOLANT LOOP 1B COLD LEG TEMPERATURE	Yes	No	Yes	No	Yes	I	T / H	No		Yes			
WF3	19	RC ITE0122 HB1 IXMITR		REACTOR COOLANT LOOP 2 HOT LEG TEMPERATURE	Yes	No	Yes	Yes	Yes	I	T / H	No		Yes			
WF3	**19**	**RC ITE0122 HA1 IXMITR**		**REACTOR COOLANT LOOP 2 HOT LEG TEMPERATURE**	**Yes**	**No**	**Yes**	**Yes**	**Yes**	**I**	**T / H**	**No**		**Yes**			
WF3	19	RC ITE0122 CA1 IXMITR		REACTOR COOLANT LOOP 2A COLD LEG TEMPERATURE	Yes	No	Yes	No	Yes	I	T / H	No		Yes			
WF3	7	RC MVAAA606 VALVE		RCP CONTROL BLEEDOFF INSIDE CONTAINMENT ISOL	Yes	No	Yes	Yes	Yes	I	T / H	Yes					Yes
WF3	**20**	**RFRECP3311 3B PANEL**		**WATER CHILLER COMPRESSOR CONTROL PANEL 3B**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**				**Yes**	

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Unit	SQUG Equip Type	Current Equipment ID			SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
												Environment?							
							Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I/O)	High Temp / Humidity? (T/H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	20	RFRECP3311	3A	PANEL		WATER CHILLER COMPRESSOR CONTROL PANEL 3A	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	**11**	**RFRMCHL0001**	**B**	**HTEXCH**		**ESSENTIAL CHILLER B**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**				**Yes**	
WF3	11	RFRMCHL0001	A	HTEXCH		ESSENTIAL CHILLER A	Yes	No	Yes	No	Yes	I		No				Yes	
WF3	20	SBVEEHC313B	5BL	HEATER		SBV FILTER TRAIN B ELECTRIC HEATING COIL	Yes	No	Yes		Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	9	SBVMFAN0001	B	BLOWER		SBV EXH FAN B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	9	SBVMFAN0001	A	BLOWER		SBV EXH FAN A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	SBVMVAAA101	B	VALVE		SBV FILTER TRAIN B INLET ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	SBVMVAAA101	A	VALVE		SBV FILTER TRAIN A INLET ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	SBVMVAAA110	B	VALVE		SBV EXHAUST FAN B SUCTION ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**8**	**SBVMVAAA110**	**A**	**VALVE**		**SBV EXHAUST FAN A SUCTION ISOLATION**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	8	SBVMVAAA113	B	VALVE		SBV EXHAUST FAN B RECIRC ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	SBVMVAAA113	A	VALVE		SBV EXHAUST FAN A RECIRC ISOLATION	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	SBVMVAAA114	B	VALVE		SBV EXHAUST FAN B EXHAUST TO PLANT STACK	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	SBVMVAAA114	A	VALVE		SBV EXHAUST FAN A EXHAUST TO PLANT STACK	Yes	No	Yes	No	No	I		No	Yes	Yes	Yes	Yes	Yes
WF3	18	SG ILT1115	B	IXMITR		STEAM GENERATOR 1 LEVEL IXMITR (WIDE RANGE)	Yes	No	Yes	No	Yes	I	T/H	No					Yes
WF3	**18**	**SG ILT1115**	**A**	**IXMITR**		**STEAM GENERATOR 1 LEVEL IXMITR (WIDE RANGE)**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**	**T/H**	**No**					**Yes**
WF3	18	SG ILT1125	B	IXMITR		STEAM GENERATOR 2 LEVEL IXMITR (WIDE RANGE)	Yes	No	Yes	No	Yes	I	T/H	No					Yes
WF3	18	SG ILT1125	A	IXMITR		STEAM GENERATOR 2 LEVEL IXMITR (WIDE RANGE)	Yes	No	Yes	No	Yes	I	T/H	No					Yes
WF3	18	SG IPT1115	A	IXMITR		STEAM GENERATOR 1 PRESSURE TRANSMITTER	Yes	No	Yes	No	Yes	I	T/H	No					Yes
WF3	18	SG IPT1125	B	IXMITR		STEAM GENERATOR 2 PRESSURE TRANSMITTER	Yes	No	Yes	No	Yes	I	T/H	No					Yes
WF3	18	SI IFT1306	B	IXMITR		RCS LOOP 1 SHDN LINE FLOW LOOP	Yes	No	Yes	No	Yes	I		No			Yes	Yes	
WF3	18	SI IFT1307	A	IXMITR		RCS LOOP 2 SHDN LINE FLOW TRANSMITTER	Yes	No	Yes	No	Yes	I		No			Yes	Yes	
WF3	20	SI IHIS0225	B	IBISSW		LCL CNTRL SW FOR CNTRL VLV SI MVAAA225-B	Yes	No	Yes	No	Yes	I		No			Yes	Yes	
WF3	20	SI IHIS0225	A	IBISSW		LCL CNTRL SW FOR CNTRL VLV SI MVAAA225-A	Yes	No	Yes	No	Yes	I		No			Yes	Yes	
WF3	20	SI IHIS0226	B	IBISSW		LCL CNTRL SW FOR CNTRL VLV SI MVAAA226-B	Yes	No	Yes	No	Yes	I		No			Yes	Yes	

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										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	20	SI IHIS0226 A IBISSW		LCL CNTRL SW FOR CNTRL VLV SI MVAAA226-A	Yes	No	Yes	No	Yes	I		No			Yes	Yes	
WF3	20	SI IHIS0227 B IBISSW		LCL CNTRL SW FOR CNTRL VLV SI MVAAA227-B	Yes	No	Yes	No	Yes	I		No			Yes	Yes	
WF3	20	SI IHIS0227 A IBISSW		LCL CNTRL SW FOR CNTRL VLV SI MVAAA227-A	Yes	No	Yes	No	Yes	I		No			Yes	Yes	
WF3	20	SI IHIS0228 B IBISSW		LCL CNTRL SW FOR CNTRL VLV SI MVAAA228-B	Yes	No	Yes	No	Yes	I		No			Yes	Yes	
WF3	20	SI IHIS0228 A IBISSW		LCL CNTRL SW FOR CNTRL VLV SI MVAAA228-A	Yes	No	Yes	No	Yes	I		No			Yes	Yes	
WF3	18	SI IPS0405 B IBISSW		RCS LOOP 1 SHDN COOL RTN ISOL VLV HYDRLC PRESS SW PMP SHUT-OFF/RE	Yes	No	Yes	Yes	Yes	I	T / H	No			Yes	Yes	
WF3	18	SI IPS0405 A IBISSW		RCS LOOP 2 SHDN COOL RTN ISOL VLV HYDRLC PRESS SW PMP SHUT-OFF/RE	Yes	No	Yes	No	Yes	I	T / H	No			Yes	Yes	
WF3	8	SI ISV0307 B ICNTRL		SAFETY INJECTION TANK 1B FILL/DRAIN VALVE SOLENOID	Yes	No	Yes	No	Yes	I	T / H	No			Yes	Yes	
WF3	8	SI ISV0307 A ICNTRL		SAFETY INJECTION TANK 1A FILL/DRAIN VALVE SOLENOID	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI ISV0323 B VALVE		SAFETY INJECTION TANK 1B VENT	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI ISV0323 A VALVE		SAFETY INJECTION TANK 1A VENT	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI ISV0324 B VALVE		SAFETY INJECTION TANK 2B VENT	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI ISV0324 A VALVE		SAFETY INJECTION TANK 2A VENT	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI ISV0325 B VALVE		SAFETY INJECTION TANK 1B VENT	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI ISV0325 A VALVE		SAFETY INJECTION TANK 1A VENT	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI ISV0326 B VALVE		SAFETY INJECTION TANK 2B VENT	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI ISV0326 A VALVE		SAFETY INJECTION TANK 2A VENT	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI ISV0405 B4 ICNTRL		RC LOOP 1 SHDN COOLING ISOLATION VALVE SOLENOID	Yes	No	Yes	Yes	No	I	T / H	No			Yes	Yes	
WF3	8	SI ISV0405 B3 ICNTRL		RC LOOP 1 SHDN COOLING ISOLATION VALVE SOLENOID	Yes	No	Yes	Yes	No	I	T / H	No			Yes	Yes	
WF3	8	SI ISV0405 B2 ICNTRL		RC LOOP 1 SHDN COOLING ISOLATION VALVE SOLENOID	Yes	No	Yes	Yes	No	I	T / H	No			Yes	Yes	
WF3	8	SI ISV1161 B VALVE		LPSI PUMP B MINIMUM FLOW RECIRC	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	**8**	**SI ISV1161 A VALVE**		**LPSI PUMP A MINIMUM FLOW RECIRC**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**			**Yes**	**Yes**	
WF3	8	SI ISV6011 VALVE		LPSI A TO RC LOOP 2B UPSTR AUTO VENT ISOL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	8	SI ISV6012 VALVE		LPSI A TO RC LOOP 2B DWNSTR AUTO VENT ISOL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	6	SI MPMP0001 B PUMP		LOW PRESSURE SAFETY INJECTION PUMP B	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	**6**	**SI MPMP0001 A PUMP**		**LOW PRESSURE SAFETY INJECTION PUMP A**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**			**Yes**	**Yes**	
WF3	**5**	**SI MPMP0002 B PUMP**		**HIGH PRESSURE SAFETY INJECTION PUMP B**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**			**Yes**	**Yes**	
WF3	5	SI MPMP0002 A PUMP		HIGH PRESSURE SAFETY INJECTION PUMP A	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	21	SI MPOL0001 ACCUMU		REFUELING WATER STRG POOL	Yes	Yes	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	7	SI MVAAA106 B VALVE		REFUELING WATER STRG POOL OUTLET HEADER B ISOLATION	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	7	SI MVAAA106 A VALVE		REFUELING WATER STRG POOL OUTLET HEADER A ISOLATION	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	0	SI MVAAA107 B VALVE		REFUELING WATER STRG POOL OUTLET HEADER B CHECK	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	0	SI MVAAA1071 B VALVE		LPSI PUMP B SUCTION CHECK	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	0	SI MVAAA108 B VALVE		LPSI PUMP B SUCTION CHECK	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	0	SI MVAAA116 B VALVE		LPSI PUMP B MINIMUM FLOW RECIRC STOP CHECK	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA120 B VALVE		SI RECIRCULATING HDR B TO RWSP UPSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA120 A VALVE		SI RECIRCULATING HDR A TO RWSP UPSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA121 B VALVE		SI RECIRCULATING HDR B TO RWSP DOWNSTREAM ISOLATION	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	**8**	**SI MVAAA121 A VALVE**		**SI RECIRCULATING HDR A TO RWSP DOWNSTREAM ISOLATION**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**			**Yes**	**Yes**	
WF3	0	SI MVAAA122 B VALVE		LPSI PUMP B DISCHARGE CHECK	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	6	SI MVAAA125 B VALVE		SHUTDOWN COOLING HX B INLET	Yes	No	Yes	Yes	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA125 A VALVE		SHUTDOWN COOLING HX A INLET	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	**7**	**SI MVAAA129 B VALVE**		**LPSI PUMP B DISCHARGE FLOW CONTROL**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**			**Yes**	**Yes**	
WF3	7	SI MVAAA129 A VALVE		LPSI PUMP A DISCHARGE FLOW CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA135 B VALVE		RC LOOP 1 SHDN COOLING WARM-UP	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID	SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	8	SI MVAAA135 A VALVE		RC LOOP 2 SHDN COOLING WARM-UP	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	**8**	**SI MVAAA138 B VALVE**		**LPSI HEADER TO RC LOOP 1B FLOW CONTROL**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**			**Yes**	**Yes**	
WF3	8	SI MVAAA138 A VALVE		LPSI HEADER TO RC LOOP 2B FLOW CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA139 B VALVE		LPSI HEADER TO RC LOOP 1A FLOW CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA139 A VALVE		LPSI HEADER TO RC LOOP 2A FLOW CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	0	SI MVAAA201 B VALVE		HPSI PUMP B SUCTION CHECK	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA219 B VALVE		HPSI DISCHARGE HEADER B ORIFICE BYPASS	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	**8**	**SI MVAAA219 A VALVE**		**HPSI DISCHARGE HEADER A ORIFICE BYPASS**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**			**Yes**	**Yes**	
WF3	8	SI MVAAA225 B VALVE		HPSI HDR B TO RC LOOP 1A FLOW CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA225 A VALVE		HPSI HDR A TO RC LOOP 1A FLOW CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA226 B VALVE		HPSI HDR B TO RC LOOP 1B FLOW CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA226 A VALVE		HPSI HDR A TO RC LOOP 1B FLOW CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	**8**	**SI MVAAA227 B VALVE**		**HPSI HDR B TO RC LOOP 2A FLOW CONTROL**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**			**Yes**	**Yes**	
WF3	8	SI MVAAA227 A VALVE		HPSI HDR A TO RC LOOP 2A FLOW CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA228 B VALVE		HPSI HDR B TO RC LOOP 2B FLOW CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA228 A VALVE		HPSI HDR A TO RC LOOP 2B FLOW CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	7	SI MVAAA301 VALVE		RC LOOP 1 HOT LEG INJ LEAKAGE DRAIN	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	7	SI MVAAA302 VALVE		RC LOOP 2 HOT LEG INJ LEAKAGE DRAIN	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	7	SI MVAAA303 B VALVE		SAFETY INJECTION TANK 1B LEAKAGE DRAIN	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	7	SI MVAAA303 A VALVE		SAFETY INJECTION TANK 1A LEAKAGE DRAIN	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	7	SI MVAAA304 B VALVE		SAFETY INJECTION TANK 2B LEAKAGE DRAIN	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	

Table 1 – Base List 1 (BL 1)

Unit	SQUG Equip Type	Current Equipment ID			SSEL Equipment ID	Equipment Description	Screen 1	Screen 2	Screen 3	Screen 4					Five Safety Functions				
												Environment?							
							Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	7	SI MVAAA304	A	VALVE		SAFETY INJECTION TANK 2A LEAKAGE DRAIN	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	7	SI MVAAA307	B	VALVE		SAFETY INJECTION TANK 1B FILL/DRAIN	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	**7**	**SI MVAAA307**	**A**	**VALVE**		**SAFETY INJECTION TANK 1A FILL/DRAIN**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**	**T / H**	**Yes**			**Yes**	**Yes**	
WF3	7	SI MVAAA308	B	VALVE		SAFETY INJECTION TANK 2B FILL/DRAIN	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	7	SI MVAAA308	A	VALVE		SAFETY INJECTION TANK 2A FILL/DRAIN	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI MVAAA331	B	VALVE		SAFETY INJECTION TANK 1B OUTLET ISOLATION	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI MVAAA331	A	VALVE		SAFETY INJECTION TANK 1A OUTLET ISOLATION	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI MVAAA332	B	VALVE		SAFETY INJECTINO TANK 2B OUTLET ISOLATION	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI MVAAA332	A	VALVE		SAFETY INJECTION TANK 2A OUTLET ISOLATION	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	7	SI MVAAA343		VALVE		SI TANK DRAIN HEADER TO RWSP ISOLATION	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI MVAAA401	B	VALVE		RC LOOP 1 SHDN COOLING UPSTREAM SUCTION ISOL	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI MVAAA401	A	VALVE		RC LOOP 2 SHDN COOLING UPSTREAM SUCTION ISOL	Yes	No	Yes	No	Yes	I	T / H	Yes			Yes	Yes	
WF3	**7**	**SI MVAAA405**	**B**	**VALVE**		**RC LOOP 1 SDC SUCTION INSIDE CONTAINMENT ISOL**	**Yes**	**No**	**Yes**	**Yes**	**Yes**	**I**	**T / H**	**Yes**			**Yes**	**Yes**	
WF3	7	SI MVAAA405	A	VALVE		RC LOOP 2 SDC SUCTION INSIDE CONTAINMENT ISOL	Yes	No	Yes	Yes	Yes	I	T / H	Yes			Yes	Yes	
WF3	8	SI MVAAA407	B	VALVE		RC LOOP 1 SDC SUCTION OUTSIDE CONTAINMENT ISOL	Yes	No	Yes	Yes	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA407	A	VALVE		RC LOOP 2 SDC SUCTION OUTSIDE CONTAINMENT ISOL	Yes	No	Yes	Yes	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA412	B	VALVE		SHUTDOWN COOLING HX B OUTLET ISOLATION	Yes	No	Yes	Yes	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA412	A	VALVE		SHUTDOWN COOLING HX A OUTLET ISOLATION	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	**8**	**SI MVAAA415**	**B**	**VALVE**		**SHUTDOWN COOLING HX B TEMPERATURE CONTROL**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**			**Yes**	**Yes**	
WF3	8	SI MVAAA415	A	VALVE		SHUTDOWN COOLING HX A TEMPERATURE CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	8	SI MVAAA502	B	VALVE		RC LOOP 2 HOT LEG INJ ISOLATION	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	**8**	**SI MVAAA502**	**A**	**VALVE**		**RC LOOP 1 HOT LEG INJ ISOLATION**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**			**Yes**	**Yes**	
WF3	8	SI MVAAA506	B	VALVE		RC LOOP 2 HOT LEG INJ FLOW CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	

Table 1 – Base List 1 (BL 1)

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										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I / O)	High Temp / Humidity? (T / H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	8	SI MVAAA506 A VALVE		RC LOOP 1 HOT LEG INJ FLOW CONTROL	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	**8**	**SI MVAAA602 B VALVE**		**SAFETY INJECTINO SUMP OUTLET HEADER B ISOLATION**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**Yes**			**Yes**	**Yes**	
WF3	8	SI MVAAA602 A VALVE		SAFETY INJECTION SUMP OUTLET HEADER A ISOLATION	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	0	SI MVAAA604 B VALVE		SAFETY INJECTION SUMP OUTLET HEADER B CHECK	Yes	No	Yes	No	Yes	I		Yes			Yes	Yes	
WF3	7	SP MVAAA105 VALVE		CONTAINMENT SUMP HEADER INSIDE CNTMT ISOLATION	Yes	No	Yes	No	Yes	I	T / H	Yes					Yes
WF3	7	SP MVAAA106 VALVE		CONTAINMENT SUMP HEADER OUTSIDE CNTMT ISOLATION	Yes	No	Yes	No	Yes	I		No					Yes
WF3	1	SSDEMCC311A PANEL		MOTOR CONTROL CENTER 311A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	1	SSDEMCC311AB PANEL		MOTOR CONTROL CENTER 311AB	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**1**	**SSDEMCC311B PANEL**		**MOTOR CONTROL CENTER 311B**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	1	SSDEMCC312A PANEL		MOTOR CONTROL CENTER 312A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	1	SSDEMCC312B PANEL		MOTOR CONTROL CENTER 312B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	1	SSDEMCC313A PANEL		MOTOR CONTROL CENTER 313A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	1	SSDEMCC313B PANEL		MOTOR CONTROL CENTER 313B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	1	SSDEMCC315A PANEL		MOTOR CONTROL CENTER 315A	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	**1**	**SSDEMCC315B PANEL**		**MOTOR CONTROL CENTER 315B**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**				**Yes**	
WF3	1	SSDEMCC317 B PANEL		MOTOR CONTROL CENTER 317B	Yes	No	Yes	No	Yes	I		No					Yes
WF3	1	SSDEMCC317 A PANEL		MOTOR CONTROL CENTER 317A	Yes	No	Yes	No	Yes	I		No					Yes
WF3	4	SSDEMT315A TRANSF		(4160-480/277V XFMR) STA SERVICE XFMR-3A315S	Yes	No	Yes	No	Yes	O	H	No				Yes	
WF3	**4**	**SSDEMT315B TRANSF**		**(4160-480/277V XFMR) STA SERVICE XFMR-3B315-S**	**Yes**	**No**	**Yes**	**No**	**Yes**	**O**	**H**	**No**				**Yes**	
WF3	4	SSDEMT31A TRANSF		STATION SERVICE 3A31 DISTRIBUTION TRANSFORMER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	4	SSDEMT31B TRANSF		(4160-480/277V XFMR) STA SERVICE XFMR-3B31-S	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	2	SSDESWGR31A PANEL		SWITCHGEAR 31A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	**2**	**SSDESWGR31A B PANEL**		**SWITCHGEAR 31AB**	**Yes**	**No**	**Yes**	**No**	**Yes**	**I**		**No**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
WF3	2	SSDESWGR31B PANEL		SWITCHGEAR 31B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	SSLMVAAA8004 B VALVE		STEAM GEN 2 BLOWDOWN SAMPLE INSIDE CNTMT ISOL	Yes	No	Yes	Yes	Yes	I	T / H	No					Yes
WF3	7	SSLMVAAA8004 A VALVE		STEAM GEN 1 BLOWDOWN SAMPLE INSIDE CNTMT ISOL	Yes	No	Yes	Yes	Yes	I	T / H	No					Yes

Table 1 – Base List 1 (BL 1)

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										Environment?							
					Seismic	Undergoes Regular Configuration Inspections?	Maintains at least one of the 5 Safety Functions	Replaced?	IPEEE	Inside / Outside (I/O)	High Temp / Humidity? (T/H)	Borated System?	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Containment Function
WF3	7	SSLMVAAA8006 B VALVE		STEAM GEN 2 BLOWDOWN SAMPLE OUTSIDE CNTMT ISOL	Yes	No	Yes	No	Yes	I		No					Yes
WF3	7	SSLMVAAA8006 A VALVE		STEAM GEN 1 BLOWDOWN SAMPLE OUTSIDE CNTMT ISOL	Yes	No	Yes	No	Yes	I		No					Yes
WF3	10	SVSMAHU0001 B BLOWER		SWGR MAIN VENTILATION AIR HANDLING UNIT AH-25B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	10	SVSMAHU0001 A BLOWER		SWGR MAIN VENTILATION AIR HANDLING UNIT AH-25A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	10	SVSMAHU0002 B BLOWER		SWGR AUX VENTILATION AIR HANDLING UNIT AH-30B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	10	SVSMAHU0002 A BLOWER		SWGR AUX VENTILATION AIR HANDLING UNIT AH-30A	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	9	SVSMFAN0003 B BLOWER		COMPUTER BATTERY ROOM EXHAUST FAN B	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	9	SVSMFAN0003 A BLOWER		COMP BATT RM EXHST FAN A E-46(3A-SA)	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	SVSMVAAA101 VALVE		SVS UPSTREAM MAKEUP DAMPER D-65(A)	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	SVSMVAAA102 VALVE		SVS DOWNSTREAM MAKEUP DAMPER D-65(SB)	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	SVSMVAAA103 B VALVE		SVSMAHU0001B AH-25(3B-SB) INLET DAMPER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	SVSMVAAA103 A VALVE		SVSMAHU0001A AH-25(3A-SA) INLET DAMPER	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	SVSMVAAA201 B VALVE		AH-30 SB INLET DAMPER D-50(SB)	Yes	No	Yes	No	Yes	I		No	Yes	Yes	Yes	Yes	Yes
WF3	7	SVSMVAAA201 A VALVE		AH-30 SA INLET DAMPER D-50(SA)	Yes	No	Yes	No	No	I		No	Yes	Yes	Yes	Yes	Yes
WF3	8	SBVMVAAA112 B VALVE		SBV EXHAUST FAN B RECIRC CHECK	Yes	No	Yes	No	No	I		No	Yes	Yes	Yes	Yes	Yes

Table 2 – Seismic Walkdown Equipment List 1 (SWEL 1)

SWEL1 #	EQUIPMENT ID			DESCRIPTION	BLDG.	ELEV.	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	ANC	DWG
SWEL1-001	MS MVAAA106	A	VALVE	MAIN STEAM LINE 1 SAFETY #1	RB	+46	R1		MS	0	O, H	N	5817-4718
SWEL1-002	SSDEMCC311B		PANEL	MOTOR CONTROL CENTER 311B	RAB	+21	212		SSD	1	I	N	SQ-E-2
SWEL1-003	SSDEMCC315B		PANEL	MOTOR CONTROL CENTER 315B	CTB	-35	B59A		SSD	1	O, H	N	1564-2118 1564-2119
SWEL1-004	CEDEBKR3918	B	CKTBRK	REACTOR TRIP SWGR BREAKER TCB-2 COMPARTMENT 2C	RAB	+21	212		CED	2	I	N	SQ-NSSS-ICE-3
SWEL1-005	SSDESWGR31AB		PANEL	SWITCHGEAR 31AB	RAB	+21	212B		SSD	2	I	N	SQ-E-8
SWEL1-006	4KVESWGR3A		PANEL	SWITCHGEAR 3A	RAB	+21	212A		4KV	3	I	N	1564-4017 1564-4018 1564-4019
SWEL1-007	ID EMTMD	B	TRANSF	SUPS INVERTER MD AC INPUT MAIN TRANSFORMER	RAB	+21	212A	B	ID	4	I	Y	1564-1829
SWEL1-008	SSDEMT315B		TRANSF	(4160-480/277V XFMR) STA SERVICE XFMR-3B315-S	RAB	+21	B59A		SSD	4	O, H	Y	5817-117
SWEL1-009	CC MPMP0001	B	PUMP	COMPONENT COOLING WATER PUMP B	RAB	+21	233	B	CC	5	I	Y	1564-1347
SWEL1-010	EFWMPMP0001	AB	PUMP	EMERGENCY FEEDWTR PUMP AB	RAB	-35	B49	AB	EFW	5	I	Y	1564-1493
SWEL1-011	EGFMPMP0001	A	PUMP	DIESEL OIL TRANSFER PUMP A	RB	-35	B52	A	EGF	5	O, H	Y	1564-1224
SWEL1-012	SI MPMP0002	B	PUMP	HIGH PRESSURE SAFETY INJECTION PUMP B	RAB	-35	B16	B	SI	5	I, B	Y	1564-72
SWEL1-013	SI MPMP0001	A	PUMP	LOW PRESSURE SAFETY INJECTION PUMP A	RAB	-35	B15	A	SI	6	I, B	N	1564-85 1564-86 1564-87
SWEL1-014	ACCMVAAA126	B	VALVE	ACC HEADER B CCW HX OUTL TEMPERATURE CONTROL VALVE	RAB	+21	236	B	ACC	7	I	N	5817-2158 5817-2159
SWEL1-015	ACCMVAAA138	A	VALVE	ACC WET COOLING TOWER A CROSS-CONNECT ISOLATION	CTA	-35		A	ACC	7	O, H	N	1564-9924 1564-9925
SWEL1-016	BAMMVAAA126	A	VALVE	BORIC ACID MAKEUP PUMP A RECIRC VALVE	RAB	-35	B38	A	BAM	7	I, B	N	1564-150
SWEL1-017	BD MVAAA103	A	VALVE	S/G 1 BLOWDOWN OUTSIDE CONTAINMENT ISOLATION	RB	-4	B100	A	BD	7	I	N	5817-11962

Table 2 – Seismic Walkdown Equipment List 1 (SWEL 1)

SWEL1 #	EQUIPMENT ID			DESCRIPTION	BLDG.	ELEV.	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	ANC	DWG
SWEL1-018	BM MVAAA109		VALVE	REACTOR DRAIN TANK OUTLET INSIDE CONTAINMENT ISOL	RCB	-11	421		BM	7	I, T, H, B	N	1564-4667
SWEL1-019	CAPMVAAA103		VALVE	CONTAINMENT PURGE INLET INSIDE ANNULUS	ANN	+21	420		CAP	7	I, T, H	N	1564-4379
SWEL1-020	CC MVAAA135	B	VALVE	DRY COOLING TOWER B CCW INLET ISOLATION	CTB	-35	B60A	B	CC	7	O, H	N	1564-8424 1564-8431
SWEL1-021	CC MVAAA322	B	VALVE	CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOL	RAB	+21	236	B	CC	7	I	N	1564-4045
SWEL1-022	CC MVAAA835	A	VALVE	CNTMT FAN COOLERS TRAIN A TEMPERATURE CONTROL	RB	-4	B100	A	CC	7	I	N	1564-2514 1564-4390
SWEL1-023	CC MVAAA963	A	VALVE	SHUTDOWN HEAT EXCHANGER A CCW FLOW CONTROL	RAB	-35	B17	A	CC	7	I	N	1564-4628 1564-4629
SWEL1-024	CMUISV0407	B	ICNTRL	SV FOR CMU-407B	CTB	-35	B59A	B	CMU	7	O, H	N	5817-4614
SWEL1-025	CS MVAAA125	B	VALVE	CONTAINMENT SPRAY HDR B ISOLATION	RB	-35	B53	B	CS	7	I, B	N	1564-3133
SWEL1-026	CVCMVAAA209		VALVE	CHARGING HEADER ISOLATION	RB	+21	225B		CVC	7	I, B	N	5817-1776
SWEL1-027	EFWMVAAA223	B	VALVE	EMERGENCY FEEDWATER HDR B TO SG2 BACKUP FLOW CNTRL	RB	+46	R2	B	EFW	7	O, H	N	5817-3745
SWEL1-028	EFWMVAAA229	B	VALVE	EMERGENCY FEEDWATER TO SG2 BACKUP ISOLATION	RB	+46	R2	A	EFW	7	O, H	N	5817-3571 5817-3744
SWEL1-029	HVCMVAAA205	A	VALVE	CONTROL ROOM EMERG FLTR A INLET DAMPER	RAB	+46	314	A	HVC	7	I	N	1564-6628
SWEL1-030	HVRMVAAA107		VALVE	RAB NORMAL SUPPLY TO CVAS DOWNSTREAM ISOLATION	RAB	-35	B17		HVR	7	I	N	1564-8744 5817-3595
SWEL1-031	HVRMVAAA303	A	VALVE	CVAS FILTER TRAIN A MINIMUM FLOW INLET	RAB	+46	299	A	HVR	7	I	N	SQ-HV-42
SWEL1-032	HVRMVAAA502	A	VALVE	EG A ROOM EXHAUST FAN VARIABLE PITCH BLADE	RAB	+46	304	A	HVR	7	I	N	SQ-HV-11
SWEL1-033	IA MVAAA909		VALVE	IA ISOL TO CONTAINMENT @ PEN #9	RB	-4	B100		IA	7	I	N	1564-3559

Table 2 – Seismic Walkdown Equipment List 1 (SWEL 1)

SWEL1 #	EQUIPMENT ID			DESCRIPTION	BLDG.	ELEV.	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	ANC	DWG
SWEL1-034	MS MVAAA116	A	VALVE	STEAM GENERATOR 1 ATMOSPHERE DUMP VALVE	RB	+46	R1	A	MS	7	O, H	N	5817-232 5817-423 5817-6268 5817-12128
SWEL1-035	MS MVAAA124	B	VALVE	MAIN STEAM ISOLATION VALVE 2	RB	+46	R2	B	MS	7	O, H	N	1564-3707
SWEL1-036	SI MVAAA129	B	VALVE	LPSI PUMP B DISCHARGE FLOW CONTROL	RAB	-35	B16	B	SI	7	I, B	N	1564-284
SWEL1-037	SI MVAAA307	A	VALVE	SAFETY INJECTION TANK 1A FILL/DRAIN	RCB	+35	421	A	SI	7	I, T, H, B	N	1564-145
SWEL1-038	SI MVAAA405	B	VALVE	RC LOOP 1 SDC SUCTION INSIDE CONTAINMENT ISOL	RCB	+21	421	B	SI	7	I, T, H, B	N	1564-1269
SWEL1-039	SVSMVAAA201	B	VALVE	AH-30 SB INLET DAMPER D-50(SB)	RAB	+7		B	SVS	7	I, B	N	1564-5763 1564-6028 1564-6628
SWEL1-040	BAMMVAAA113	A	VALVE	BORIC ACID MAKEUP TANK A GRAVITY FEED VALVE	RAB	-35	B38	A	BAM	8	I, B	N	SQ-NSSS-PE-24
SWEL1-041	CARMVAAA204	A	VALVE	CAR EXHAUST HEADER A DISCHARGE	RAB	+46	299	A	CAR	8	I	N	1564-4386
SWEL1-042	CHWMVAAA900		VALVE	SWGR MAIN SVSMAHU0001-B CHW OUTLET FCV	RAB	+46	323	B	CHW	8	I	N	5817-2710
SWEL1-043	EGAISV0411	B	VALVE	EG B EMERGENCY MODE FUEL CONTROL #2	RAB	+21	222		EGA	8	I	N	1564-2080 1564-2081 1564-2082
SWEL1-044	MS MVAAA120	A	VALVE	MSIV 1 UPSTREAM DRIP POT NORMAL DRAIN	RB	+46	R1	A	MS	8	O, H	N	1564-1548
SWEL1-045	MS MVAAA401	A	VALVE	EFW PUMP AB TURBINE STEAM SUPPLY FROM S/G 1	RB	+46	300	A	MS	8	O, H	N	5817-5815 5817-6914 5817-7250 5817-8170
SWEL1-046	NG ISV0809		VALVE	NITROGEN ACCUMULATOR #5 OUTLET STOP	RB	+46	R1		NG	8	O, H	N	5817-5363 5817-5366 5817-5367 5817-6400
SWEL1-047	RC ISV1014		VALVE	REACTOR VESSEL VENT TO QUENCH TANK ISOLATION	RCB	+46	421	B	RC	8	I, T, H, B	N	5817-5362 5817-5369
SWEL1-048	RC ISV3184		VALVE	PRESSURIZER VENT TO QUENCH TANK	RCB	+46	421		RC	8	I, T, H, B	N	5817-5362 5817-5369
SWEL1-049	SBVMVAAA110	A	VALVE	SBV EXHAUST FAN A SUCTION ISOLATION	RAB	+46	299	A	SBV	8	I	N	1564-4384

Table 2 – Seismic Walkdown Equipment List 1 (SWEL 1)

SWEL1 #	EQUIPMENT ID			DESCRIPTION	BLDG.	ELEV.	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	ANC	DWG
SWEL1-050	SBVMVAAA112	B	VALVE	SBV EXHAUST FAN B RECIRC CHECK	RAB	+46	-	B	SBV	8	I	N	1564-4084
SWEL1-051	SI ISV1161	A	VALVE	LPSI PUMP A MINIMUM FLOW RECIRC	RAB	-35	B15		SI	8	I, B	N	5817-6401
SWEL1-052	SI MVAAA121	A	VALVE	SI RECIRCULATING HDR A TO RWSP DOWNSTREAM ISOLATION	RB	-35	B53	A	SI	8	I, B	N	1564-6618
SWEL1-053	SI MVAAA138	B	VALVE	LPSI HEADER TO RC LOOP 1B FLOW CONTROL	RB	-35	B53		SI	8	I, B	N	1564-142
SWEL1-054	SI MVAAA219	A	VALVE	HPSI DISCHARGE HEADER A ORIFICE BYPASS	RB	-35	B53	A	SI	8	I, B	N	1564-6615
SWEL1-055	SI MVAAA227	B	VALVE	HPSI HDR B TO RC LOOP 2A FLOW CONTROL	RB	-35	B53	B	SI	8	I, B	N	5817-11904 5817-11905
SWEL1-056	SI MVAAA415	B	VALVE	SHUTDOWN COOLING HX B TEMPERATURE CONTROL	RAB	-35	B16	B	SI	8	I, B	N	5817-1419 5817-3594
SWEL1-057	SI MVAAA502	A	VALVE	RC LOOP 1 HOT LEG INJ ISOLATION	RB	-35	B53		SI	8	I, B	N	1564-6617
SWEL1-058	SI MVAAA602	B	VALVE	SAFETY INJECTINO SUMP OUTLET HEADER B ISOLATION	RB	-35	B53	B	SI	8	I, B	N	5817-10933
SWEL1-059	ACCMFAN0002	B	BLOWER	WET COOLING TOWER B FAN 2-SB	CTB	-35	B60A		ACC	9	O, H	N	SQ-MN-203
SWEL1-060	CC MFAN0003	A	BLOWER	DRY COOLING TOWER A FAN 3-SA	CTA	-35	B59A	A	CC	9	O, H	N	1564-1435 5817-11268
SWEL1-061	HVCMAHU0001	A	BLOWER	CONTROL ROOM AIR HANDLING UNIT AH-12A	RAB	+46		A	HVC	9	I	N	1564-7545 1564-9361 1564-9362 1564-9363
SWEL1-062	HVCMFAN0010	B	BLOWER	CONTROL ROOM EMER FILTRATION UNIT B	RAB	+46	314	B	HVC	9	I	N	1564-5052
SWEL1-063	HVRMFAN0025	A	BLOWER	EDG ROOM A EXHAUST FAN E-28A	RAB	+46	299	A	HVR	9	I	N	1564-4560
SWEL1-064	HVCMAHU0009	A	BLOWER	CONTROL ROOM EMER FILTRATION UNIT A	RAB	+46		A	HVC	10	I	Y	1564-5051
SWEL1-065	HVRMAHU0028	A	BLOWER	CCW PUMP ROOM A AIR HANDLING UNIT AH-10A	RAB	+21	235	A	HVR	10	I	N	1564-4586 1564-8953
SWEL1-066	HVRMAHU0032	B	BLOWER	SHUTDOWN COOLING HX B AIR HANDLING UNIT AH-3B	RAB	-35	B20	B	HVR	10	I	N	1564-4585
SWEL1-067	RFRMCHL0001	B	HTEXCH	ESSENTIAL CHILLER B	RAB	+46	299	B	RFR	11	I	Y	5817-10990

Table 2 – Seismic Walkdown Equipment List 1 (SWEL 1)

SWEL1 #	EQUIPMENT ID			DESCRIPTION	BLDG.	ELEV.	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	ANC	DWG
SWEL1-068	DC EPDPB	DC	PANEL	PDP B-DC	RAB	+21	212B	B	DC	14	I	Y	SQ-E-1
SWEL1-069	ID EPDPMD		PANEL	PDP MD NUCLEAR INST CHANNEL D	RAB	+21	212		ID	14	I	Y	5817-4678
SWEL1-070	DC EBATB		BATTRY	125V BAT & RACK 125VDC BATTERY B-S 60 CELLS	RAB	+21	213	B	DC	15	I	Y	SQ-E-5
SWEL1-071	DC EBC1A		BATTRY	BATTERY CHARGER A1	RAB	+21	212	A	DC	16	I	Y	1564-1146 1564-1157
SWEL1-072	EG MDSG0001	B	GENERA	EMERGENCY DIESEL GENERATOR B	RAB	+21	222	B	EG	17	I	Y	1564-1999 1564-2040 1564-2041 1564-2042 1564-2043 1564-2055 1564-2057 1564-2058
SWEL1-073	CC ILS7011	B	IBISSW	CCW SURGE TANK B SIDE LO/LO LEVEL SWITCH	RAB	+91	417	B	CC	18	I	N	1564-1489
SWEL1-074	EGFILT6903	A	IXMITR	DIESEL OIL FEED TNK A LVL TRANSMITTER	RAB	+46	328B		EGF	18	O, H	Y	1564-7973
SWEL1-075	IC ICDC1	C	PANEL	INSTRUMENT CABINET C-1C	RCB	+21	421		IC	18	I, T, H	N	1564-9155
SWEL1-076	IC ICDC12		PANEL	INSTRUMENT CABINET C-12	RB	-4	B145		IC	18	I	N	1564-9210
SWEL1-077	IC ICDC9		PANEL	INSTRUMENT CABINET C-9	RCB	+21	421		IC	18	I, T, H	N	1564-9158
SWEL1-078	NG IPIS0945	B	IBISSW	NITROGEN HEADER 6 PRESS INDICATING SWITCH	RB	+46			NG	18	O, H	N	5817-5815 5817-7250 5817-8270
SWEL1-079	SG ILT1115	A	IXMITR	STEAM GENERATOR 1 LEVEL IXMITR (WIDE RANGE)	RCB	-4	421		SG	18	I, T, H	N	5817-5727
SWEL1-080	RC ITE0122	HA1	IXMITR	REACTOR COOLANT LOOP 2 HOT LEG TEMPERATURE	RCB	-4	423		RC	19	I, T, H	N	SQ-IC-6
SWEL1-081	EG ECP6850	B	PANEL	DIESEL GEN B ENGINE CONTROL PANEL	RAB	+21	222	B	EG	20	I	N	1564-2169
SWEL1-082	ESFECP0001	A	PANEL	ESFAS CABINETS	RAB	+21	212A		ESF	20	I	Y	1564-6395
SWEL1-083	IC EAUX2		PANEL	AUXILIARY PANEL 2(SB)	RAB	+35	262	B	IC	20	I	N	SQ-IC-36

Table 2 – Seismic Walkdown Equipment List 1 (SWEL 1)

SWEL1 #	EQUIPMENT ID			DESCRIPTION	BLDG.	ELEV.	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	ANC	DWG
SWEL1-084	IC ECP08		PANEL	ENGINEERED SAFEGUARD CONTRL PANEL CP8	RAB	+46	304		ESF	20	I	N	1564-9337
SWEL1-085	IC ECP22		PANEL	CORE PROTECTION CALCULATORS	RAB	+46	304		CPC	20	I	N	1564-5421 1564-5422 1564-5423 1564-5424
SWEL1-086	IC ECP26		PANEL	PROCESS ANALOG CONTROL PROTECTIVE CHANNEL B	RAB	+46	304		PAC	20	I	N	1564-2554
SWEL1-087	IC ELCP61		PANEL	LOCAL CONTROL PANEL PAC LCP-61	RAB	+21	212A		PAC	20	I	Y	5817-5884
SWEL1-088	RFRECP3311	3B	PANEL	WATER CHILLER COMPRESSOR CONTROL PANEL 3B	RAB	+46	299	B	RFR	20	I	Y	SQ-HV-6A
SWEL1-089	BAMMTNK0001	A	ACCUMU	BORIC ACID MAKEUP TANK A	RAB	-35		A	BAM	21	I, B	N	1564-427
SWEL1-090	CC MHX0001	A	HTEXCH	COMPONENT COOLING WATER HEAT EXCHANGER A	RAB	+21	220	A	CC	21	I	Y	1564-1466
SWEL1-091	CC MTNK0001	C	ACCUMU	COMPONENT COOLING WATER SURGE TANK	RAB	+91	417		CC	21	O, H	Y	1564-4554
SWEL1-092	CS MHX0001	A	HTEXCH	SHUTDOWN COOLING HEAT EXCHANGER A	RAB	-35	B48	A	CS	21	I, B	Y	SQ-NSSS-PE-39
SWEL1-093	EGFMTNK0001	A	ACCUMU	FUEL OIL STORAGE TANK A	RB	-35		A	EGF	21	O, H	Y	1564-2525 1564-2526 1564-2527
SWEL1-094	NG MACC0003		ACCUMU	NITROGEN ACCUMULATOR #3	RAB	+21			NG	21	I	Y	SQ-MN-245
SWEL1-095	EGAMCMP0002	A	BLOWER	EG A AIR COMPRESSOR A2	RAB	+21	221	A	EGA	12	I	N	1564-2060 5817-9388
SWEL1-096	EGAMRCR0002	A	ACCUMU	(AIR RECEIVER) EGA AIR RECEIVER A2	RAB	+21	221		EGA	12	I	Y	1564-2060 5817-9388
SWEL1-097	4KVESWGR3B		PANEL	SWITCHGEAR 3B	RAB	+21	212	B	4KV	3	I	N	1564-4013 1564-4014 1564-4331

Table 3 – Base List 2 (BL 2)

BL2#	Equipment ID			Description	BLDG.	ELEV.	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	N/R
2001	FS EBKR312A	10F	CKTBRK	RWSP PURIFICATION PUMP	RAB	+21	212A	A	FS	2	I	
2002	FS EBKR314A	5D	CKTBRK	FUEL POOL PURIFICATION PUMP	FHB	+1	B151	A	FS	2	I	
2003	FS EBKR314A	5M	CKTBRK	FUEL POOL PUMP A	FHB	+1	B151	A	FS	2	I	
2004	FS EBKR314B	5M	CKTBRK	FUEL POOL PUMP B	FHB	+1	B151	B	FS	2	I	
2005	FS EBKR314B	6F	CKTBRK	REFUELING CANAL DRAIN PUMP	FHB	+1	B151	B	FS	2	I	
2006	FS EOL312A	10F	RELAY	RFLG WTR POOL PURIF PUMP TOL	RAB	+21	212A		FS	2	I	
2007	FS EOL314A	5D	RELAY	FUEL POOL PURIF PUMP TOL	FHB	+1	B151		FS	2	I	
2008	FS EOL314A	5M	RELAY	FUEL POOL PUMP A TOL	FHB	+1	B151	A	FS	2	I	
2009	FS EOL314B	5M	RELAY	FUEL POOL PUMP B TOL	FHB	+1	B152	B	FS	2	I	
2010	FS EOL314B	6F	RELAY	REFUELING CANAL DRAIN PUMP TOL	FHB	+1	B152		FS	2	I	
2011	FS ITE2010		PIPE	FP WATER TO FP PUMPS TEMP ELEMENT THERMOWELL	FHB	+1	-	-	FS	0	I, B	
2012	FS ITE2020		PIPE	FUEL POOL HX OUTLET HDR TEMP ELEMENT THERMOWELL	FHB	+1	-	-	FS	0	I, B	
2013	FS MHX0001		HTEXCH	FUEL POOL HEAT EXCHANGER TUBE SIDE	FHB	+1	-	-	FS	21	I, B	
2014	FS MHX0002		HTEXCH	BACK-UP FUEL POOL HX PO#J11-100014	FHB	-35	-	-	FS	21	I, B	
2015	FS MPMP0001	A	PUMP	FUEL POOL PUMP A	FHB	+1	B157	A	FS	5	I, B	
2016	FS MPMP0001	B	PUMP	FUEL POOL PUMP B	FHB	+1	B157	B	FS	5	I, B	
2017	FS MSTRN0001		FILTER	REFUEL WTR STORAGE POOL OUTLT TO REFUEL WTR PUMP	FHB	+1	-	-	FS	0	I, B	
2018	FS MSTRN0002		FILTER	FUEL POOL INLET STRAINER	FHB	+1	-	-	FS	0	I, B	
2019	FS MVAAA101	A	VALVE	FUEL POOL PUMP A SUCTION ISOLATION	FHB	+1	-	-	FS	Manual	I, B	
2020	FS MVAAA101	B	VALVE	FUEL POOL PUMP B SUCTION ISOLATION	FHB	+1	-	-	FS	Manual	I, B	
2021	FS MVAAA102	A	VALVE	FUEL POOL PUMP A SUCTION DRAIN	FHB	+1	-	-	FS	Manual	I, B	
2022	FS MVAAA102	B	VALVE	FUEL POOL PUMP B SUCTION DRAIN	FHB	+1	-	-	FS	Manual	I, B	
2023	FS MVAAA103	A	VALVE	FUEL POOL PUMP A DISCH LINE FS IPI0401 RT	FHB	+1	-	-	FS	Manual	I, B	
2024	FS MVAAA103	B	VALVE	FUEL POOL PUMP B DISCH LINE FS IPI0402 RT	FHB	+1	-	-	FS	Manual	I, B	
2025	FS MVAAA104	A	VALVE	FUEL POOL PUMP A DISCHARGE CHECK	FHB	+1	B156	-	FS	Check	I, B	
2026	FS MVAAA104	B	VALVE	FUEL POOL PUMP B DISCHARGE CHECK	FHB	+1	B157	-	FS	Check	I, B	
2027	FS MVAAA105	A	VALVE	FUEL POOL PUMP A DISCHARGE DRAIN	FHB	+1	-	-	FS	Manual	I, B	
2028	FS MVAAA105	B	VALVE	FUEL POOL PUMP B DISCHARGE DRAIN	FHB	+1	-	-	FS	Manual	I, B	
2029	FS MVAAA106	A	VALVE	FUEL POOL PUMP A DISCHARGE ISOLATION	FHB	+1	-	-	FS	Manual	I, B	
2030	FS MVAAA106	B	VALVE	FUEL POOL PUMP B DISCHARGE ISOLATION	FHB	+1	-	-	FS	Manual	I, B	
2031	FS MVAAA107		VALVE	FUEL POOL PUMPS DISCHARGE HEADER FS IPS0403 ROOT	FHB	+1	-	-	FS	Manual	I, B	
2032	FS MVAAA108		VALVE	FUEL POOL PUMPS DISCHARGE HEADER VENT	FHB	+1	-	-	FS	Manual	I, B	
2033	FS MVAAA1081		VALVE	FUEL POOL HEAT EXCHANGER TUBE SIDE VENT	FHB	+1	-	-	FS	Manual	I, B	
2034	FS MVAAA10811		VALVE	FUEL POOL HEAT EXCHANGER INLET ISOLATION	FHB	+1	-	-	FS	Manual	I, B	
2035	FS MVAAA1082		VALVE	FUEL POOL HEAT EXCHANGER TUBE SIDE DRAIN	FHB	+1	-	-	FS	Manual	I, B	
2036	FS MVAAA109		VALVE	FUEL POOL HEAT EXCHANGER OUTLET LINE DRAIN	FHB	+1	-	-	FS	Manual	I, B	
2037	FS MVAAA110		VALVE	FUEL POOL HEAT EXCHANGER OUTLET ISOLATION	FHB	+1	-	-	FS	Manual	I, B	
2038	FS MVAAA111		VALVE	FUEL POOL HEAT EXCHANGERS OUTLET HEADER VENT	FHB	+1	-	-	FS	Manual	I, B	
2039	FS MVAAA404		VALVE	FUEL POOL ION EXCHANGER TO RWSP ISOLATION	RB	-4	B100	-	FS	Manual	I, B	
2040	FS MVAAA405		VALVE	FP IX TO REFUELING CAVITY OUTSIDE CONTAINMENT ISOL	RB	-4	-	-	FS	Manual	I, B	
2041	FS MVAAA406		VALVE	FP IX TO REFUELING CAVITY INSIDE CONTAINMENT ISOL	RCB	-4	-	-	FS	Manual	I, B	
2042	FS MVAAA415		VALVE	REFUELING CAVITY DRN PUMP INSIDE CONTAINMENT ISOL	RCB	-4	-	-	FS	Manual	I, B	
2043	FS MVAAA416		VALVE	REFUELING CAVITY DRN PUMP OUTSIDE CONTAINMENT ISOL	RB	-4	-	-	FS	Manual	I, B	
2044	FS MVAAA422		VALVOP	REFUELING CAVITY DRN PUMP TO RWSP ISOLATION	R	-4	-	-	FS	Manual	I, B	
2045	FS MVAAA422		VALVE	REFUELING CAVITY DRN PUMP TO RWSP ISOLATION	RB	-4	-	-	FS	Manual	I, B	
2046	FS MVAAA423		VALVE	RWSP PURIFICATION PUMP SUCTION ISOL FROM RWSP	RB	-35	-	-	FS	Manual	I, B	
2047	FS MVAAA423		VALVOP	RWSP PURIFICATION PUMP SUCTION ISOL FROM RWSP	RB	-4	-	-	FS	Manual	I, B	

Table 3 – Base List 2 (BL 2)

BL2#	Equipment ID			Description	BLDG.	ELEV.	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	N/R
2048	FS MVAAA601		VALVE	BACK-UP FUEL POOL HX INLET ISOLATION	FHB	-35	-	-	FS	Manual	I, B	
2049	FS MVAAA602		VALVE	BACK-UP FUEL POOL HX INLET DRAIN	FHB	-35	-	-	FS	Manual	I, B	
2050	FS MVAAA603		VALVE	BACK-UP FUEL POOL HX INLET TUBE SIDE DRAIN	FHB	-35	-	-	FS	Manual	I, B	
2051	FS MVAAA604		VALVE	BACK-UP FUEL POOL HX U-TUBE SIDE DRAIN	FHB	-35	-	-	FS	Manual	I, B	
2052	FS MVAAA605		VALVE	BACK-UP FUEL POOL HX OUTLET TUBE SIDE VENT	FHB	-35	-	-	FS	Manual	I, B	
2053	FS MVAAA606		VALVE	BACK-UP FUEL POOL HX U-TUBE SIDE VENT	FHB	-35	-	-	FS	Manual	I, B	
2054	FS MVAAA607		VALVE	BACK-UP FUEL POOL HX OUTLET LINE VENT	FHB	-35	-	-	FS	Manual	I, B	
2055	FS MVAAA608		VALVE	BACK-UP FUEL POOL HX OUTLET ISOLATION	FHB	-35	-	-	FS	Manual	I, B	
2056	FS EBKR45AB	16	CKTBRK	FUEL POOL LEVEL ALARM HORN	RAB	+35	262	-	FS	14	I	
2057	FS ILS2000		IBISSW	FUEL POOL WATER HIGH LEVEL SWITCH	FHB	+46	F361	-	FS	0	I, B	
2058	FS ILS2000	A1	IBISSW	FUEL POOL WATER LOW LEVEL SWITCH	FHB	+46	F361	-	FS	0	I, B	
2059	FS ILS2000	A2	IBISSW	FUEL POOL WATER LOW LEVEL SWITCH	FHB	+46	F361	-	FS	0	I, B	
2060	FS EREL0631	A	RELAY	FUEL POOL LOW LEVEL ALARM RL1 RELAY	FHB	+46	F361	-	FS	0	I	
2061	FS EREL0631	B	RELAY	FUEL POOL LOW-LOW LEVEL TRIP RLL1 RELAY	FHB	+46	F361	-	FS	0	I	
2062	**CC MVAAA620**		**VALVE**	**FUEL POOL HEAT EXCH'S TEMPERATURE CONTROL**	**FHB**	**+1**	**B161**	**-**	**FS, CCW**	**7**	**I**	
2063	**CC EBKR90A**	**21**	**CKTBRK**	**MAIN FUEL POOL HX TCV CHANNEL A SOL (CC-620)**	**RAB**	**+35**	**262**	**A**	**FS, CCW**	**14**	**I**	
2064	**CC EBKR91B**	**21**	**CKTBRK**	**MAIN FUEL POOL HX TCV CHANNEL B SOL (CC-620)**	**RAB**	**+35**	**262**	**B**	**FS, CCW**	**14**	**I**	
2065	**CC ISV0620**	**1**	**ICNTRL**	**SV FOR CC-620**	**FHB**	**+1**	**B161**	**-**	**FS, CCW**	**8**	**I**	
2066	**CC ISV0620**	**2**	**ICNTRL**	**SV FOR CC-620**	**FHB**	**+1**	**B161**	**-**	**FS, CCW**	**8**	**I**	
2067	**CC MPMP0001**	**A**	**PUMP**	**COMPONENT COOLING WATER PUMP A**	**RAB**	**+21**	**235**	**A**	**FS, CCW**	**5**	**I**	
2068	CC MPMP0001	AB	PUMP	COMPONENT COOLING WATER PUMP AB	RAB	+21	234	AB	FS, CCW	5	I	
2069	CC MPMP0001	B	PUMP	COMPONENT COOLING WATER PUMP B	RAB	+21	233	B	FS, CCW	5	I	
2070	**CC EMTR3A**	**2**	**MOTOR**	**COMPONENT COOLING WATER PUMP A**	**RAB**	**+21**	**235**	**A**	**FS, CCW**	**5**	**I**	
2071	CC EMTR3AB	4	MOTOR	COMPONENT COOLING WATER PUMP AB	RAB	+21	234	AB	FS, CCW	5	I	
2072	CC EMTR3B	81	MOTOR	COMPONENT COOLING WATER PUMP B	RAB	+21	233	B	FS, CCW	5	I	
2073	**FS EMTR314A**	**5M**	**MOTOR**	**FUEL POOL PUMP A MOTOR**	**FHB**	**+1**	**B156**	**A**	**FS**	**5**	**I**	
2074	**FS EMTR314B**	**5M**	**MOTOR**	**FUEL POOL PUMP B MOTOR**	**FHB**	**+1**	**B157**	**B**	**FS**	**5**	**I**	
2075	**FS EMTR314B**	**6F**	**MOTOR**	**REFUELING CANAL DRAIN PMP MOTOR**	**FHB**	**-35**	**B58**	**B**	**FS**	**5**	**I**	

Table 4 – Rapid Drain-Down List (RDD)

RDD#	DESCRIPTION				BASIS FOR INCLUSION/EXCLUSION	RDD
R-01	3FS1-35		PIPE	FUEL POOL COOLING PIPING VENTS AND INST. TAPS	These small lines are not attached to the spent fuel pool or to larger lines that can drain the fuel pool. See drawings 4305-4425 and 4305-4433.	N
R-02	3FS1-55		PIPE	FUEL POOL CLG. LOOP DRAIN AND LOC SAMPLES	These small lines are not attached to the spent fuel pool or to larger lines that can drain the fuel pool. See drawing 4305-4425.	N
R-03	3FS10-2	A	PIPE	FUEL POOL PUMP A SUCTION	Connected to 3FS12-1A/B header. Plain end of header in spent fuel pool at elevation 40'- 6" will prevent drain down of the pool. See drawings 4305-4423 and 4305-4424.	N
R-04	3FS10-3	B	PIPE	FUEL POOL PUMP B SUCTION	Connected to 3FS12-1A/B header. Plain end of header in spent fuel pool at elevation 40 - 6" will prevent drain down of the pool. See drawings 4305-4423 and 4305-4424.	N
R-05	3FS10-4	A	PIPE	FUEL POOL PUMP A DISCH TO FUEL POOL HT EXCH	Line not attached to pool where it could cause drain down. See drawing 4305-4425.	N
R-06	3FS10-5	B	PIPE	FUEL POOL PUMP B DISCH TO FUEL POOL HT EXCH	Line not attached to pool where it could cause drain down. See drawing 4305-4425.	N
R-07	3FS10-76	A/B	PIPE	TO SUPPLEMENTAL FUEL POOL HEAT EXCH.	Line not attached to pool where it can cause drain down. Runs between line 3FS12-6A/B and FS MHX0002 (BACKUP HEAT EXCHANGER). See drawing G169 and 4305-4425.	N
R-08	3FS12-1	A/B	PIPE	FUEL POOL PUMPS SUCTION HDR FROM SPENT FUEL POOL	Plain end at elevation 40'-6" where it enters the pool. This line cannot drain down the pool. See drawings 4305-4423, 4305-4424, and G169.	N.
R-09	3FS12-6	A/B	PIPE	FUEL POOL PMPS COMB DISCH HDR UPST.F.P. HEAT EXCH	Line not attached to pool where it could cause drain down. See drawing 4305-4425.	N
R-10	3FS12-7	A/B	PIPE	FUEL POOL PMPS DISCH HDR DWSTM.F.P.HEAT EXCH.	Holes in pipe at elevation 40'-6" inside the fuel pool will prevent drain down. See drawings 4305-4433 and G169. Also, see EC 5000083767.	N
R-11	3FS12-51	A/B	PIPE	DELETED PER DC-3465	Line is removed by DC 3465. See drawing 4305-4433 and EC 5000083767.	N
R-12	7FS0 3/4-72		PIPE	REFUEL CANAL DR PUMP STRN DRAIN LINE	Connected to fuel pool through line 7FS4-45, which can cause rapid drain down. Therefore, this line is included in RDD list. See drawing V8.4-1001-11.	Y
R-13	7FS1-36		PIPE	F.P.PURIF. LOOP VENTS AND INSTRUMENT TAPS	This line is not connected to the spent fuel pool. Also, it is not attached to lines 7FS4-45, 7FS4-46, 7FS4-47, or 7FS0 3/4-72. See drawings 4305-4431 and 4305-4445.	N
R-14	7FS1-56		PIPE	FUEL POOL PURIF.LOOP DR AND LOC. SAMPLES.	This line is not connected to the spent fuel pool. Also, it is not attached to lines 7FS4-45, 7FS4-46, 7FS4-47, or 7FS0 3/4-72. See drawing 4305-4445.	N
R-15	7FS1-57		PIPE	FUEL POOL SYS DR. LOC SAMPLES VENTS & INST TAPS	This line is not connected to the spent fuel pool. Also, it is not attached to lines 7FS4-45, 7FS4-46, 7FS4-47, or 7FS0 3/4-72. See drawings 4305-4431 and V8.4-1001-16.	N
R-16	7FS2-21		PIPE	FUEL POOL SKIMMER LINE	Plain end on pipe at elevation 43' -0 7/8" inside the spent fuel pool will prevent drain down. See drawings V8.4-1001-13, 4305-4428, G169, EC 5000083763, and EC 5000083770.	N
R-17	7FS2-50		PIPE	SPENT FUEL CASK DECON PIT TO FHB SUMP	This line is not connected to the spent fuel pool. Also, it is not attached to lines 7FS4-45, 7FS4-46, 7FS4-47, or 7FS0 3/4-72. See drawing V8.4-1001-12.	N
R-18	7FS3-8		PIPE	FUEL POOL PURIF. PUMP SUCT FROM FUEL POOL	Plain end on pipe at elevation 40'-6" inside the spent fuel pool will prevent drain down. See drawings G169, 4305-4428, and EC 5000083763.	N
R-19	7FS3-13		PIPE	FUEL POOL ION EXCH OUTLET DOWNSTREAM OF STRAINER	Plain end on pipe at elevation 42'-6" inside the spent fuel pool will prevent drain down. See drawings G169 and 4305-4431.	N
R-20	7FS3-19		PIPE	SPENT FUEL POOL M.U. FROM R.W.A. VIA CCW M.U. PUMP	Plain end on pipe at elevation 42'-6" inside the spent fuel pool will prevent drain down. See drawings G169 AND 4305-4435.	N
R-21	7FS3-20		PIPE	FUEL POOL PURIF. PUMP PRIMING LINE DOWNSTREAM	This line is not connected to the spent fuel pool. Also, it is not attached to lines 7FS4-45, 7FS4-46, 7FS4-47, or 7FS0 3/4-72. See drawings 4305-4435 and G169.	N
R-22	7FS3-22		PIPE	DELETED PER DC-3465	Line is removed by DC 3465. See drawing 4305-4428 and EC 5000083763.	N
R-23	7FS3-23		PIPE	DELETED PER DC-3465	Line is removed by DC 3465. See drawing 4305-4428 and EC 5000083763.	N
R-24	7FS3-44		PIPE	REFUEL CANAL & SPT. FUEL CASK STOR DR. PUMP DISCH.	Bottom of pipe at elevation 42'-6" inside fuel pool will prevent drain down of the pool. See drawings 4305-4445 and G169.	N
R-25	7FS4-45		PIPE	REFUEL CANAL DRAIN PUMP SUCTION	This is attached to a drain in the bottom of the refuel canal. This can result in a drain down of the pool to near the top of the fuel bundles. See drawings 4305-4446, G874 S02, and EC 5000084044.	Y

Table 4 – Rapid Drain-Down List (RDD)

RDD#	DESCRIPTION			BASIS FOR INCLUSION/EXCLUSION	RDD
R-26	7FS4-46	PIPE	SPENT FUEL CASK STORAGE TO DRAIN PUMP SUCTION	The drain in the Cask Storage Area is covered with a welded plate. However, this line is connected directly to line 7FS4-45 which can cause a drain down of the pool. See drawings 4305-4446, G874 S02, and EC 5000084044.	Y
R-27	7FS4-47	PIPE	SPEN FUEL CASK DECONTAM. PIT	This line is connected to 7FS4-46 which does have the capability to cause rapid drain down of the pool. See drawing 4305-4446.	Y
R-28	FS MPMP0002	PUMP	REFUELING CANAL DRAIN PUMP	Line 7FS4-45, which can cause a rapid drain of the pool, is attached to the suction on this pump. See drawing 4305-4446.	Y

Table 5 – Seismic Walkdown Equipment List 2 (SWEL 2)

SWEL2#	EQUIPMENT ID			DESCRIPTION	BLDG.	ELEV	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	N/R	RDD
SWEL2-001	FS EBKR314A	5D	CKTBRK	FUEL POOL PURIFICATION PUMP	FHB	+1	B151	A	FS	1	I		N/A
SWEL2-002	FS EBKR314A	5M	CKTBRK	FUEL POOL PUMP A	FHB	+1	B151	A	FS	1	I		N/A
SWEL2-003	FS EBKR314B	6F	CKTBRK	REFUELING CANAL DRAIN PUMP	FHB	+1	B151	B	FS	1	I		N/A
SWEL2-004	CC EBKR90A	21	CKTBRK	MAIN FUEL POOL HX TCV CHANNEL A SOL (CC-620)	RAB	+35	262	A	CC	14	I		N/A
SWEL2-005	CC EBKR91B	21	CKTBRK	MAIN FUEL POOL HX TCV CHANNEL B SOL (CC-620)	RAB	+35	262	B	CC	14	I		N/A
SWEL2-006	FS EBKR314B	5M	CKTBRK	FUEL POOL PUMP B	FHB	+1	B151	B	FS	1	I		N/A
SWEL2-007	FS EOL314A	5M	RELAY	FUEL POOL PUMP A TOL	FHB	+1	B151	A	FS	1	I		N/A
SWEL2-008	FS EOL314B	5M	RELAY	FUEL POOL PUMP B TOL	FHB	+1	B152	B	FS	1	I		N/A
SWEL2-009	FS EOL314B	6F	RELAY	REFUELING CANAL DRAIN PUMP TOL	FHB	+1	B152	-	FS	1	I		N/A
SWEL2-010	CC EMTR3A	2	MOTOR	COMPONENT COOLING WATER PUMP A	RAB	+21	235	A	CC	5	I		N/A
SWEL2-011	CC MPMP0001	A	PUMP	COMPONENT COOLING WATER PUMP A	RAB	+21	235	A	CC	5	I		N/A
SWEL2-012	FS EMTR314A	5M	MOTOR	FUEL POOL PUMP A MOTOR	FHB	+1	B156	A	FS	5	I		N/A
SWEL2-013	FS EMTR314B	5M	MOTOR	FUEL POOL PUMP B MOTOR	FHB	+1	B157	B	FS	5	I		N/A
SWEL2-014	FS EMTR314B	6F	MOTOR	REFUELING CANAL DRAIN PMP MOTOR	FHB	-35	B58	B	FS	5	I		N/A
SWEL2-015	FS MPMP0001	A	PUMP	FUEL POOL PUMP A	FHB	+1	B157	A	FS	5	I / B		N/A
SWEL2-016	FS MPMP0001	B	PUMP	FUEL POOL PUMP B	FHB	+1	B157	B	FS	5	I / B		N/A
SWEL2-017	CC MVAAA620		VALVE	FUEL POOL HEAT EXCH'S TEMPERATURE CONTROL	FHB	+1	B161	-	CC	7	I		N/A
SWEL2-018	CC ISV0620	1	ICNTRL	SV FOR CC-620	FHB	+1	B161	-	CC	8	I		N/A
SWEL2-019	CC ISV0620	2	ICNTRL	SV FOR CC-620	FHB	+1	B161	-	CC	8	I		N/A
SWEL2-020	FS MHX0001		HTEXCH	FUEL POOL HEAT EXCHANGER TUBE SIDE	FHB	+1	-	-	FS	21	I / B		N/A
SWEL2-021	FS MHX0002		HTEXCH	BACK-UP FUEL POOL HX PO#J11-100014	FHB	-35	-	-	FS	21	I / B		N/A
SWEL2-022	7FS0 3/4-72		PIPE	REFUEL CANAL DR PUMP STRN DRAIN LINE	FHB	-	-	-	FS	0	I / B		R-12
SWEL2-023	7FS4-45		PIPE	REFUEL CANAL DRAIN PUMP SUCTION	FHB	-	-	-	FS	0	I / B		R-25
SWEL2-024	7FS4-46		PIPE	SPENT FUEL CASK STORAGE TO DRAIN PUMP SUCTION	FHB	-	-	-	FS	0	I / B		R-26
SWEL2-025	7FS4-47		PIPE	SPENT FUEL CASK DECONTAM PIT	FHB	-	-	-	FS	0	I / B		R-27
SWEL2-026	FS MPMP0002		PUMP	REFUELING CANAL DRAIN PUMP	FHB	-35	B58	-	FS	5	I / B		R-28

Attachment C

Seismic Walkdown Checklists (SWCs)

REVISION 0

See Attachment K for Revision 1 SWCs

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-001

Equipment ID No. MS MVAAA106-A Equip. Class[1] Other

-OR- 2MS-R613A

Equipment Description Main Steam Line 1 Safety #1

Location: Bldg. RB Floor El. +46 Room, Area Room R1, Col 3A, Line M

Manufacturer, Model, Etc. (optional but recommended) Crosby 8T12x12 HA-75

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Visible hardware on valve outlet is accounted for and in good condition. Covered hardware on valve inlet is considered acceptable based on this visible hardware.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Mild corrosion on visible hardware, covered hardware on valve inlet is considered acceptable based on this visible hardware; no seismic concern

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-001

Equipment ID No. MS MVAAA106-A Equip. Class Other

-OR- 2MS-R613A

Equipment Description Main Steam ~~Line 1~~ Safety #1

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-001**

Equipment ID No. MS MVAAA106-A Equip. Class Other

-OR- 2MS-R613A

Equipment Description Main Steam Line 1 Safety #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)

- Mild corrosion on valve; no seismic concern; CR-WF3-2012-05230 and WR-287229 initiated for this condition.
- For area walk-by checklist see AWC-042

Natalie George

Evaluated by: Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-001**

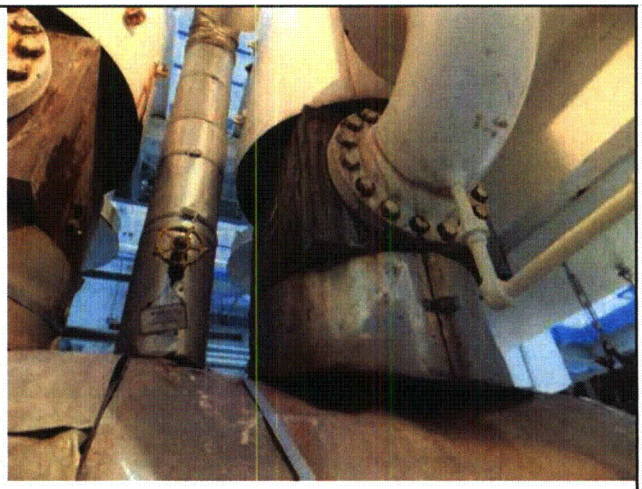
Equipment ID No. MS MVAAA106-A Equip. Class Other

-OR- 2MS-R613A

Equipment Description Main Steam Line 1 Safety #1

Photographs

Note: Mild corrosion on protective hood and cap



Note: Mild corrosion on bolts at outlet

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-002**

Equipment ID No. SSDEMCC311B Equip. Class[1] Motor Control Centers and Wall-Mounted Contactors

Equipment Description Reactor Trip Switchgear Breaker TCB-2 Compartment 2C

Location: Bldg. RAB Floor El. +21 Room, Area Room 212, Col. 8A, Line K

Manufacturer, Model, Etc. (optional but recommended) General Electric, Co., AK2-25-2

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

See Attachment K - Revision 1

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-002

Equipment ID No. SSDEMCC311B Equip. Class Motor Control Centers and Wall-Mounted Contactors

Equipment Description Reactor Trip Switchgear Breaker TCB-2 Compartment 2C

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

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

Interaction Effects

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

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

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

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

See Attachment K - Revision 1

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-002**

Equipment ID No. SSDEMCC311B Equip. Class Motor Control Centers and Wall-Mounted Contactors

Equipment Description Reactor Trip Switchgear Breaker TCB-2 Compartment 2C

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

_____ _____

See Attachment K - Revision 1

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-002**

Equipment ID No. SSDEMCC311B Equip. Class Motor Control Centers and Wall-Mounted Contactors

Equipment Description Reactor Trip Switchgear Breaker TCB-2 Compartment 2C

Photographs

Note:	**Note:**

See Attachment K - Revision 1

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-003

Equipment ID No. SSDEMCC315B Equip. Class[1] Motor Control Centers and Wall-Mounted Contactors

-OR- MCC-3B315S

Equipment Description MOTOR CONTROL CENTER 315B

Location: Bldg. CTB Floor El. -35 Room, Area Room B59A, Col. 12A, Line R

Manufacturer, Model, Etc. (optional but recommended) Rowan Controller Company, 5640V4A82111102000

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☒
   - Anchorage on back side of MCC is not accessible, so this cannot be a part of the 50% verification.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - All accessible anchorage is free of bent, broken, missing, or loose hardware. Anchorage on back side of MCC is not accessible. Based on the condition of the anchorage on the front of the MCC, the anchorage on the back is considered to be acceptable. Also, the anchorage was verified to be acceptable during IPEEE walkdown.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Mild surface corrosion of anchor bolts. Not a seismic concern.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks near the anchors on the front side of the MCC.

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-003**

Equipment ID No. SSDEMCC315B Equip. Class Motor Control Centers and Wall-Mounted Contactors

-OR- MCC-3B315S

Equipment Description MOTOR CONTROL CENTER 315B

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   - Item is not one of the 50% of SWEL items requiring verification

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-4 satisfied; no seismic concern

Interaction Effects

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

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

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Conduit is rigidly attached to equipment. This is acceptable per drawing no. B288, S19-1.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied.

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-003**

Equipment ID No. SSDEMCC315B Equip. Class Motor Control Centers and Wall-Mounted Contactors

-OR- MCC-3B315S

Equipment Description MOTOR CONTROL CENTER 315B

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☐ N☒ U☐
    - A light switch located inside the weather enclosure is not secured. It is attached at the top, but has the potential to swing or break off and hit the MCC during a seismic event. See photo.

Comments (Additional pages may be added as necessary)

- Mild surface corrosion on weather enclosure; no seismic concern
- On corner of MCC weather enclosure, the top angle is split and coming apart. Not a seismic concern.
- CR-WF3-2012-04931 initiated to address mild surface corrosion on weather enclosure
- CR-WF3-2012-05743 initiated to address unsecured light switch inside weather enclosure
- For area walk-by checklist see AWC-014

Evaluated by: Brian Pace Date: 10/15/2012

Dinesh Patel 10/15/2012

Sheet 4 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-003**

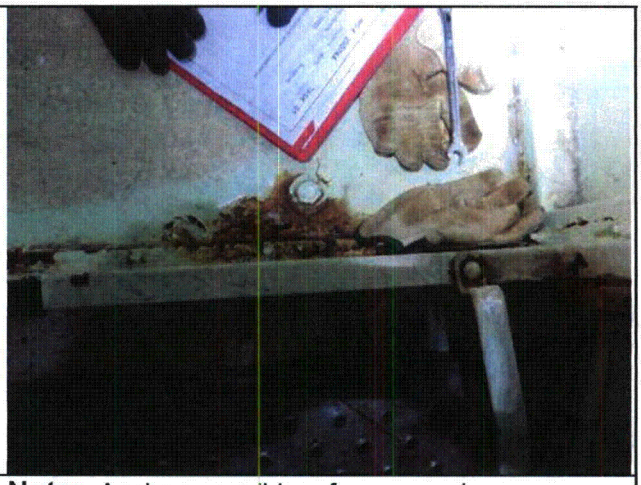
Equipment ID No. SSDEMCC315B -OR- MCC-3B315S

Equip. Class Motor Control Centers and Wall-Mounted Contactors

Equipment Description MOTOR CONTROL CENTER 315B

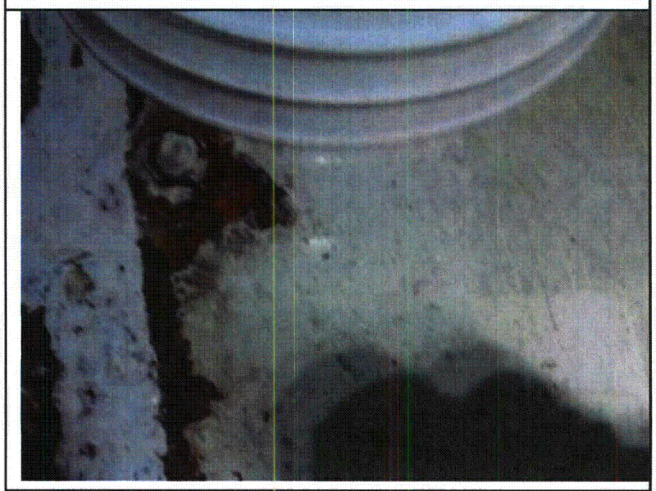
Photographs

Note: Light switch not attached at bottom. Potential seismic concern.



Note: Anchorage mild surface corrosion

Note: Mild surface corrosion on weather enclosure.



Note: Anchorage mild surface corrosion

Sheet 5 of 5

Status: Y☒ N☐ U☐

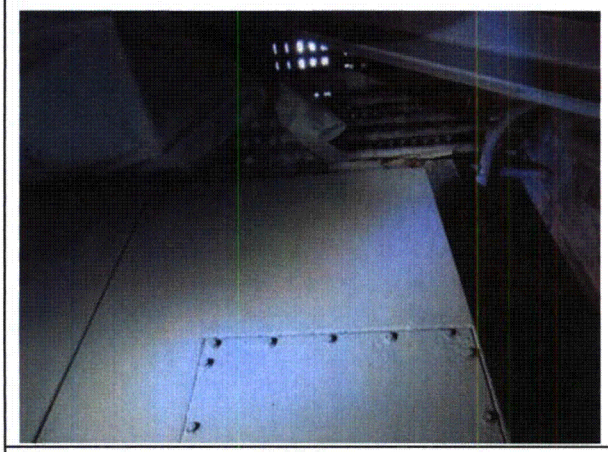
Seismic Walkdown Checklist (SWC) **SWEL1-003**

Equipment ID No. SSDEMCC315B Equip. Class Motor Control Centers and Wall-Mounted Contactors

-OR- MCC-3B315S

Equipment Description MOTOR CONTROL CENTER 315B

Photographs



Note: On corner of MCC weather enclosure, the top angle is split and coming apart

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-004

Equipment ID No. CEDEBKR3918-B Equip. Class[1] Low Voltage Switchgears and Breaker Panels

Equipment Description REACTOR TRIP SWGR BREAKER TCB-2 COMPARMENT 2C

Location: Bldg. RAB Floor El. +21 Room, Area Room 212, Col. 8A, Line K

Manufacturer, Model, Etc. (optional but recommended) General Electric Co., AK2-25-2

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

See Attachment K - Revision 1

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-004**

Equipment ID No. CEDEBKR3918-B Equip. Class Low Voltage Switchgears and Breaker Panels

Equipment Description REACTOR TRIP SWGR BREAKER TCB-2 COMPARMENT 2C

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

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

Interaction Effects

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

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

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

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

See Attachment K - Revision 1

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-004**

Equipment ID No. CEDEBKR3918-B Equip. Class Low Voltage Switchgears and Breaker Panels

Equipment Description REACTOR TRIP SWGR BREAKER TCB-2 COMPARMENT 2C

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

_____ _____

See Attachment K - Revision 1

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-004**

Equipment ID No. CEDEBKR3918-B Equip. Class Low Voltage Switchgears and Breaker Panels

Equipment Description REACTOR TRIP SWGR BREAKER TCB-2 COMPARMENT 2C

Photographs

Note:	**Note:**

See Attachment K - Revision 1

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-005

Equipment ID No. SSDESWGR31AB Equip. Class[1] Low Voltage Switchgear and Breaker Panels

-OR- SWGR-3AB31S)

Equipment Description Switchgear 31AB

Location: Bldg. RAB Floor El. +21 Room, Area Room 212B, Col. 11A-J

Manufacturer, Model, Etc. (optional but recommended) General Electric Co., AKD6

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-005

Equipment ID No. SSDESWGR31AB Equip. Class Low Voltage Switchgear and Breaker Panels

-OR- SWGR-3AB31S)

Equipment Description Switchgear 31AB

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

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

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. SSDESWGR31AB Equip. Class Low Voltage Switchgear and Breaker Panels

-OR- SWGR-3AB31S)

Equipment Description Switchgear 31AB

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

_____ _____

Sheet 4 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. SSDESWGR31AB -OR- SWGR-3AB31S) Equip. Class Low Voltage Switchgear and Breaker Panels

Equipment Description Switchgear 31AB

Photographs

Note:	**Note:**

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-006

Equipment ID No. 4KVESWGR3A Equip. Class[1] Medium Voltage, Metal-Clad Switchgear

-OR- SWGR-3A3S

Equipment Description Switchgear 3A

Location: Bldg. RAB Floor El. +21 Room, Area 212A, Column 9A

Manufacturer, Model, Etc. (optional but recommended) General Electric, Co., AM4163502H

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

See Attachment K - Revision 1

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-006

Equipment ID No. 4KVESWGR3A Equip. Class Medium Voltage, Metal-Clad Switchgear

-OR- SWGR-3A3S

Equipment Description Switchgear 3A

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

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

Interaction Effects

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

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

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

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

See Attachment K - Revision 1

Sheet 3 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. 4KVESWGR3A Equip. Class Medium Voltage, Metal-Clad Switchgear

-OR- SWGR-3A3S

Equipment Description Switchgear 3A

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date:

_____

See Attachment K - Revision 1

Sheet 4 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. 4KVESWGR3A Equip. Class Medium Voltage, Metal-Clad Switchgear

-OR- SWGR-3A3S

Equipment Description Switchgear 3A

Photographs

Note:	**Note:**

See Attachment K - Revision 1

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-007

Equipment ID No. ID EMTMD-B Equip. Class[1] Transformers

Equipment Description SUPS INVERTER MD AC INPUT MAIN TRANSFORMER

Location: Bldg. RAB Floor El. +21 Room, Area Room 212A, Col. 10A, Line K

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - All bolts mounting transformer to panel 3MD-S are in good condition.
   - All anchor bolts mounting panel 3MD-S to concrete are in good condition.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion found on any bolts mounting the transformer to the panel or the panel to the concrete.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks in concrete.

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-007

Equipment ID No. ID EMTMD-B Equip. Class Transformers

Equipment Description SUPS INVERTER MD AC INPUT MAIN TRANSFORMER

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   - Refer to drawing G574, S05 for anchorage detail.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-5 satisfied.

Interaction Effects

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

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

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - All conduits attached to transformer are flexible.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 are satisfied.

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. ID EMTMD-B Equip. Class Transformers

Equipment Description SUPS INVERTER MD AC INPUT MAIN TRANSFORMER

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-018

Evaluated by: Dinesh Patel Date: 10-19-2012

Brian Pace 10-19-2012

Sheet 4 of 4

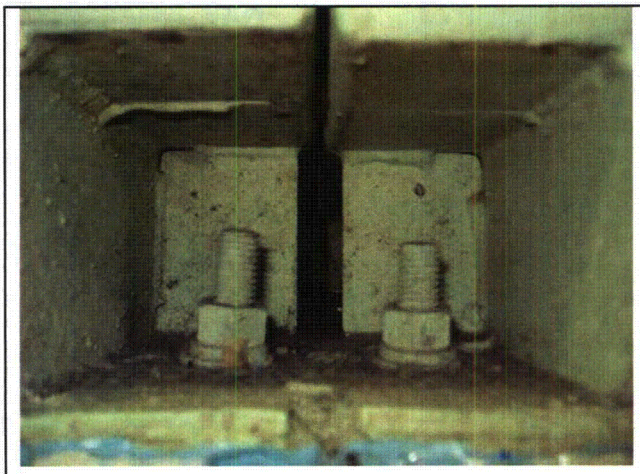
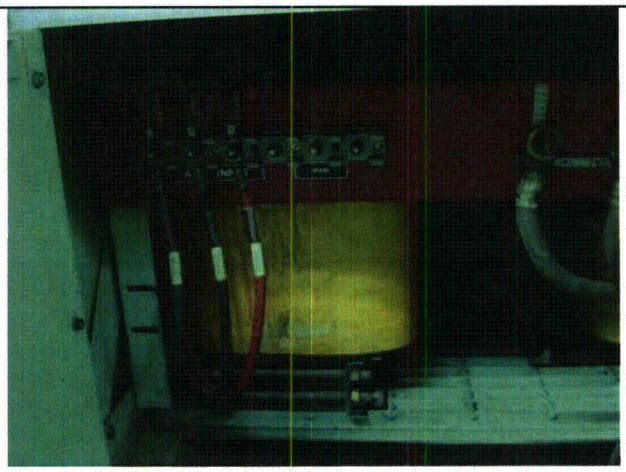
Status: Y☒ N☐ U☐

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

Equipment ID No. ID EMTMD-B Equip. Class Transformers

Equipment Description SUPS INVERTER MD AC INPUT MAIN TRANSFORMER

Photographs

	
Note: Anchor bolts for 3MD-S panel are in good condition.	**Note:** Transformer and its bolts are in good condition. All other internals mounted properly.

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-008

Equipment ID No. SSDEMT315B Equip. Class[1] Transformers

Equipment Description (4160-480/277V XFMR) STA SERVICE XFMR-3B315-S

Location: Bldg. CTB Floor El. -35 Room, Area Room B59A, Col. 12A, Line S

Manufacturer, Model, Etc. (optional but recommended) General Electric Co., SD315B4360

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Four 7/8" diameter anchor bolts present and all in good condition.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - The four anchor bolts have no corrosion.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks were found near the anchors.

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-008

Equipment ID No. SSDEMT315B Equip. Class Transformers

Equipment Description (4160-480/277V XFMR) STA SERVICE XFMR-3B315-S

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   - Anchorage observed in field is consistent with plant documentation (See drawing G501, S03 for anchorage detail).
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-5 are satisfied.

Interaction Effects

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

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

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Rigid conduits are attached to the transformer. These conduits are acceptable per drawing B288, S19-1.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 are satisfied.

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-008

Equipment ID No. SSDEMT315B Equip. Class Transformers

Equipment Description (4160-480/277V XFMR) STA SERVICE XFMR-3B315-S

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- Missing bolt on housing cover (1 of 8 on side); no seismic concern
- Mild corrosion on housing cover, bolts; no seismic concern
- CR-WF3-2012-04932 and WR 285894 initiated to address missing bolt on housing cover (1 of 8) and mild corrosion on housing cover and bolts
- For area walk-by checklist see AWC-008

Evaluated by: Dinesh Patel Date: 10/10/2012

Brian Pace 10/10/2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. SSDEMT315B Equip. Class Transformers

Equipment Description (4160-480/277V XFMR) STA SERVICE XFMR-3B315-S

Photographs

	
Note: Missing bolt on the housing cover (1 of 8)	**Note:** Example of anchorage in good condition.

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-009

Equipment ID No. CC MPMP0001-B Equip. Class[1] Horizontal Pumps

Equipment Description Component Cooling Water Pump B

Location: Bldg. RAB Floor El. +21 Room, Area Room 233, Col. 7A, Line K

Manufacturer, Model, Etc. (optional but recommended) Babcock & Wilcox, Co., 12X14X16

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Anchorage that mounts pump and motor skid to concrete pad is in good condition.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on the anchors.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks on the concrete pad.

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-009

Equipment ID No. CC MPMP0001-B Equip. Class Horizontal Pumps

Equipment Description Component Cooling Water Pump B

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   - Anchorage is consistent with plant documentation. See drawing G574, S02.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-4 satisfied; no seismic concern

Interaction Effects

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

Sheet 3 of 5

Status: Y☒ N☐ U☐

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

Equipment ID No. CC MPMP0001-B Equip. Class Horizontal Pumps

Equipment Description Component Cooling Water Pump 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☐

Comments (Additional pages may be added as necessary)

- Very mild surface corrosion on shaft lubrication unit bolts. No seismic concern. CR-WF3-2012-05230 and WR-287232 initiated for this condition.
- Minor leak from rear motor housing. Rag dated 6-26-12. No seismic concern. Condition previously addressed in CR-WF3-2012-01473 and WR-267573.
- For area walk-by checklist see AWC-020

Evaluated by: Brian Pace Date: 10-12-2012

Dinesh Patel 10-12-2012

Sheet 4 of 5

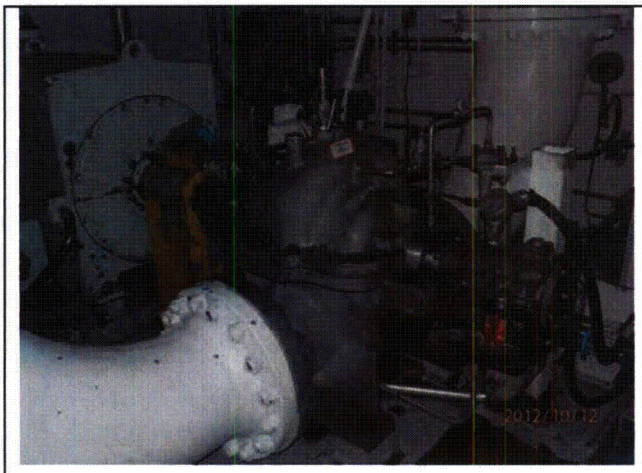
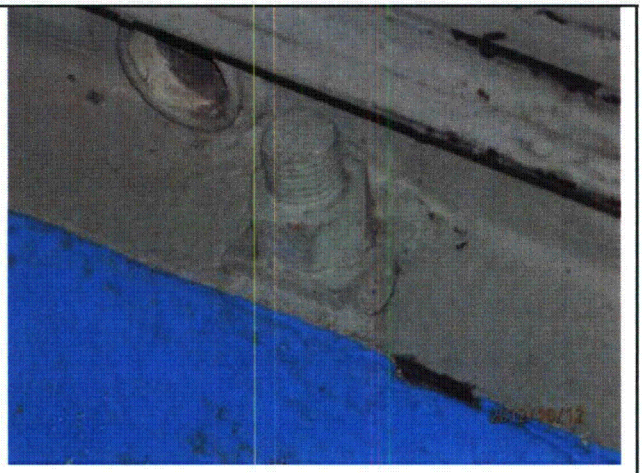
Status: Y☒ N☐ U☐

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

Equipment ID No. CC MPMP0001-B Equip. Class Horizontal Pumps

Equipment Description Component Cooling Water Pump B

Photographs

	
Note: Component Cooling Water Pump B	**Note:** Example of anchor bolt in good condition.

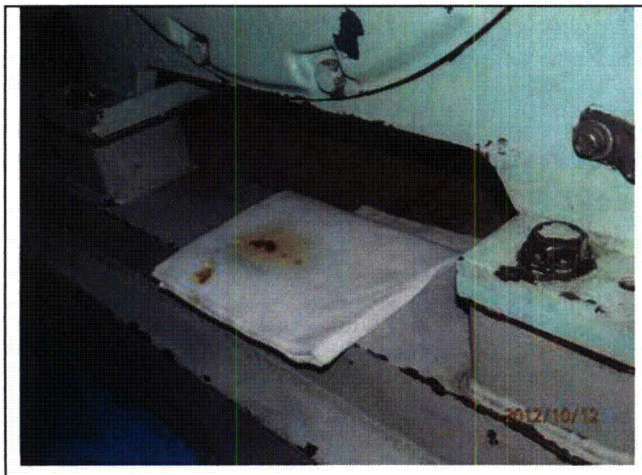
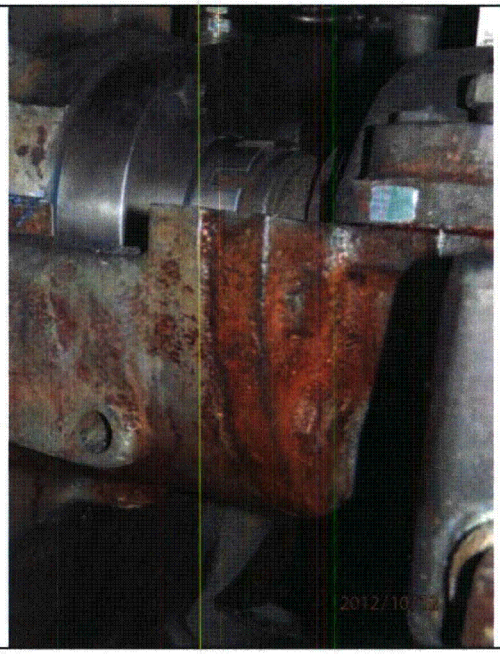
Sheet 5 of 5

Status: Y☒ N☐ U☐

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

Equipment ID No. CC MPMP0001-B Equip. Class Horizontal Pumps

Equipment Description Component Cooling Water Pump B

	
Note: Minor leak from rear motor housing	**Note:** Very mild surface corrosion on lubrication unit bolts

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-010

Equipment ID No. EFWMPMP0001-AB Equip. Class[1] Horizontal Pumps

Equipment Description Emergency Feedwater Pump AB

Location: Bldg. RAB Floor El. -35 Room, Area Room B49, Col. 4A, Line L

Manufacturer, Model, Etc. (optional but recommended) Sulzer Bingham Pumps, Inc., 3X6X9CMSDD

Instructions for Completing Checklist

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

Anchorage

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

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

   - All anchorage is accounted for and in good condition

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

   - All anchorage is corrosion free

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

   - No cracks were observed in the concrete

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. EFWMPMP0001-AB Equip. Class Horizontal Pumps

Equipment Description Emergency Feedwater Pump AB

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

   - Plant documentation is consistent with observations in the field (See drawing no. G501, Sh. 1)

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - No seismic concern

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-010

Equipment ID No. EFWMPMP0001-AB Equip. Class Horizontal Pumps

Equipment Description Emergency Feedwater Pump AB

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- Oil leak, fluid under equipment; no seismic concern. Previously addressed in CR-WF3-2011-05119 and WR-243506.
- For area walk-by checklist see AWC-007

Evaluated by: Dinesh Patel Date: 10/2/12

Natalie George 10/2/12

Sheet 4 of 4

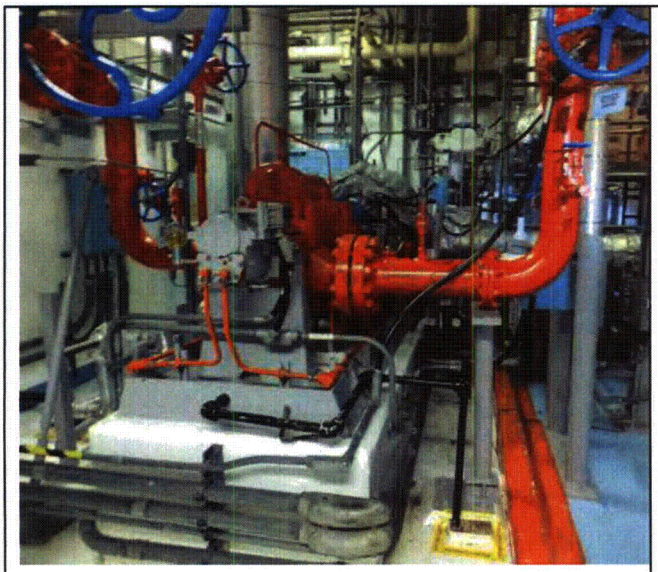
Status: Y☒ N☐ U☐

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

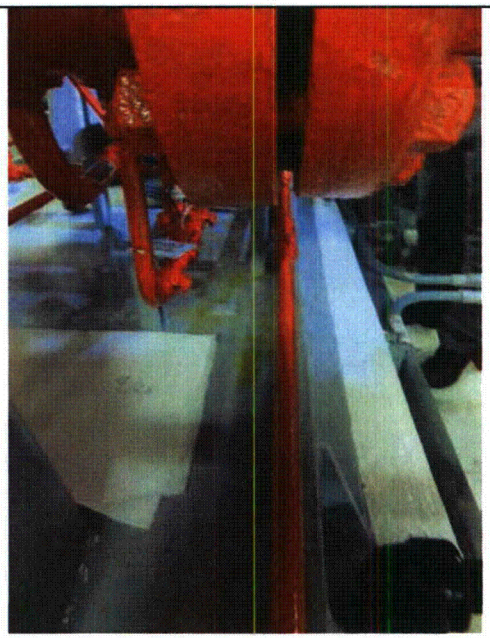
Equipment ID No. EFWMPMP0001-AB Equip. Class Horizontal Pumps

Equipment Description Emergency Feedwater Pump AB

Photographs



Note: Emergency Feedwater Pump AB



Note: Oil leak, fluid under equipment

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-011

Equipment ID No. EGFMPMP0001-A Equip. Class[1] HORIZIONTAL PUMP

Equipment Description DIESEL OIL TRANSFER PUMP A

Location: Bldg. RB Floor El. -35 Room, Area ROOM B52, COL 2A, LINE L

Manufacturer, Model, Etc. (optional but recommended) GOULDS PUMPS INC, 3736

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - All anchorage is accounted for and in good condition
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Mild surface corrosion on anchorage; no seismic concern
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks in the concrete

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-011

Equipment ID No. EGFMPMP0001-A Equip. Class HORIZIONTAL PUMP

Equipment Description DIESEL OIL TRANSFER PUMP A

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   - Anchorage configuration consistent with plant documentation (Drawing no. G501 sh. 2 and IPEEE pg. E-89)
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-4 satisfied; no seismic concern

Interaction Effects

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. EGFMPMP0001-A Equip. Class HORIZIONTAL PUMP

Equipment Description DIESEL OIL TRANSFER PUMP 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)

- Mild surface corrosion on pump body; no seismic concern. CR-WF3-2012-05275 and WR-287626 written to address this condition.
- For area walk-by checklist see AWC-029

Evaluated by: Brian Pace Date: 10/5/12

Dinesh Patel 10/5/12

Sheet 4 of 4

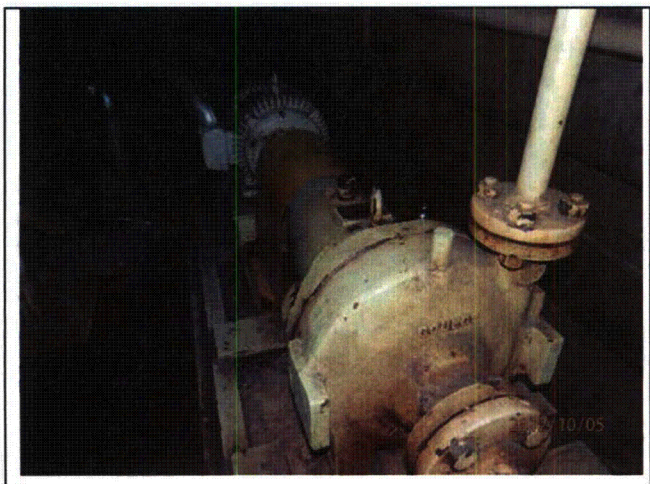
Status: Y☒ N☐ U☐

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

Equipment ID No. EGFMPMP0001-A Equip. Class HORIZIONTAL PUMP

Equipment Description DIESEL OIL TRANSFER PUMP A

Photographs



Note: Mild corrosion on Diesel Oil Transfer Pump A

Note: Mild corrosion on anchorage

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-012

Equipment ID No. SI MPMP0002-B Equip. Class[1] Horizontal Pumps

Equipment Description High Pressure Safety Injection Pump B

Location: Bldg. RAB Floor El. -35 Room, Area Room B16, Col. 7A, Line K

Manufacturer, Model, Etc. (optional but recommended) Ingersoll-Rand, 4X9C9

Instructions for Completing Checklist

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

Anchorage

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-012

Equipment ID No. SI MPMP0002-B Equip. Class Horizontal Pumps

Equipment Description High Pressure Safety Injection Pump B

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   - Anchorage configuration consistent with plant documentation (Drawing no. G501 sh. 1 and IPEEE pg. E-4)
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - No seismic concern

Interaction Effects

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. SI MPMP0002-B Equip. Class Horizontal Pumps

Equipment Description High Pressure Safety Injection Pump 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☐

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-001

Evaluated by: Dinesh Patel Date: 10/2/12

Natalie George 10/2/12

Sheet 4 of 4

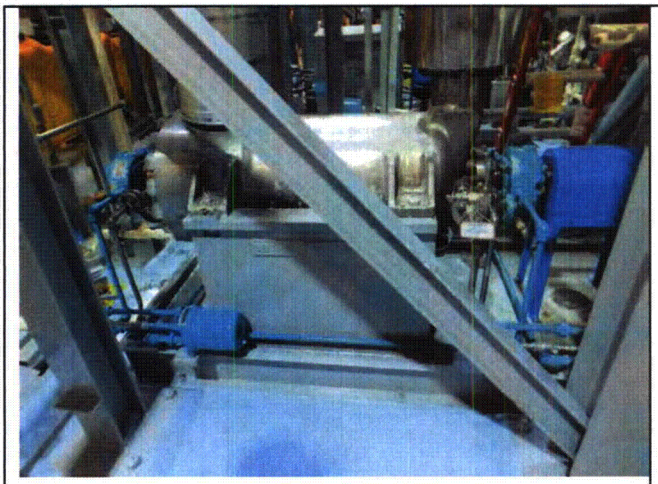
Status: Y☒ N☐ U☐

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

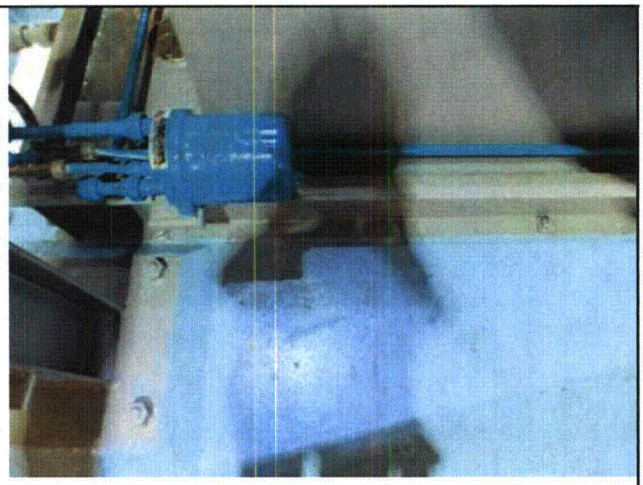
Equipment ID No. SI MPMP0002-B Equip. Class Horizontal Pumps

Equipment Description High Pressure Safety Injection Pump B

Photographs



Note: High Pressure Safety Injection Pump B



Note: High Pressure Safety Injection Pump B anchorage

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-013

Equipment ID No. SI MPMP0001-A Equip. Class[1] Vertical Pumps

Equipment Description Low Pressure Safety Injection Pump A

Location: Bldg. RAB Floor El. -35 Room, Area B15, Col. 9A, Line K

Manufacturer, Model, Etc. (optional but recommended) Ingersoll-Rand, 8X20WD

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☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification
   - Pump bolted to structural frame. Frame welded to embed plate at 4 locations.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Bolts mounting pump to frame are accounted for and in good condition
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on bolts
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - No visible cracks in concrete around the embed plate

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-013

Equipment ID No. SI MPMP0001-A Equip. Class Vertical Pumps

Equipment Description Low Pressure Safety Injection Pump A

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2-4 satisfied; no seismic concerns

Interaction Effects

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. SI MPMP0001-A Equip. Class Vertical Pumps

Equipment Description Low Pressure Safety Injection Pump 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)

- For area walk-by checklist see ACW-002

Evaluated by: Dinesh Patel Date: 10-03-2012

Brian Pace 10-03-2012

Sheet 4 of 4

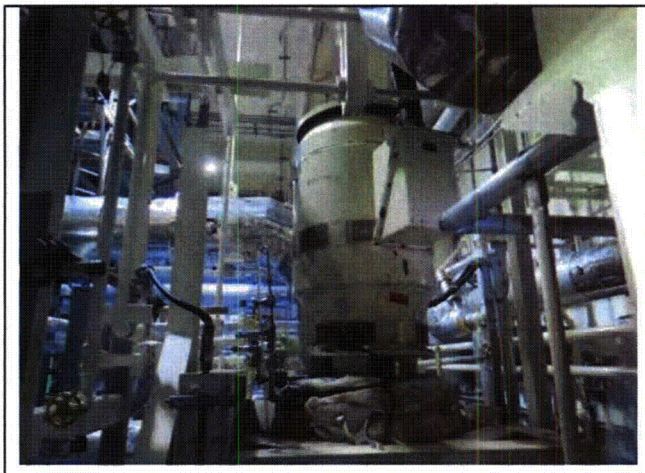
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-013

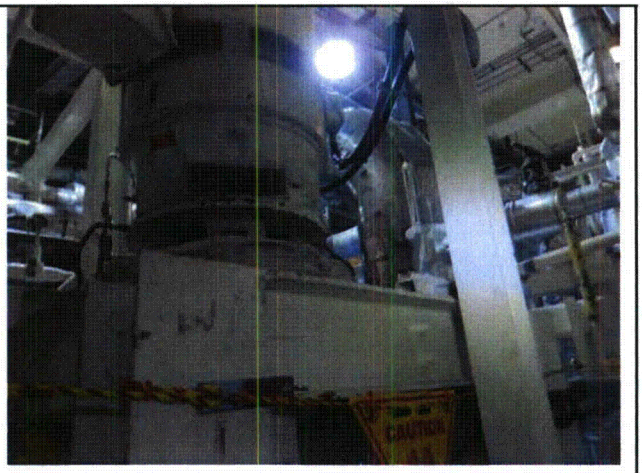
Equipment ID No. SI MPMP0001-A Equip. Class Vertical Pumps

Equipment Description Low Pressure Safety Injection Pump A

Photographs



Note: Low Pressure Safety Injection Pump A



Note: Pump and frame

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-014

Equipment ID No. ACCMVAAA126-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 3CC-TM291B

Equipment Description ACC HEADER B CCS HX OUTL TEMPERATURE CONTROL VALVE

Location: Bldg. RAB Floor El. +21 Room, Area Room 236, Col. 3A, Line K

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Co., Inc., 9211

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - No corrosion on painted hardware
   - Mild corrosion on hardware without paint; no seismic concern

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-014

Equipment ID No. ACCMVAAA126-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-TM291B

Equipment Description ACC HEADER B CCS HX OUTL TEMPERATURE CONTROL VALVE

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-014**

Equipment ID No. ACCMVAAA126-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-TM291B

Equipment Description ACC HEADER B CCS HX OUTL TEMPERATURE CONTROL 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)

- Valve is leaking, previously documented and a funnel is in place; no seismic concern
- For area walk-by checklist see AWC-024

Evaluated by: Natalie George Natalie George Date: 10/15/12

Chu-Chieh Lin Chu-Chieh Lin 10/15/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

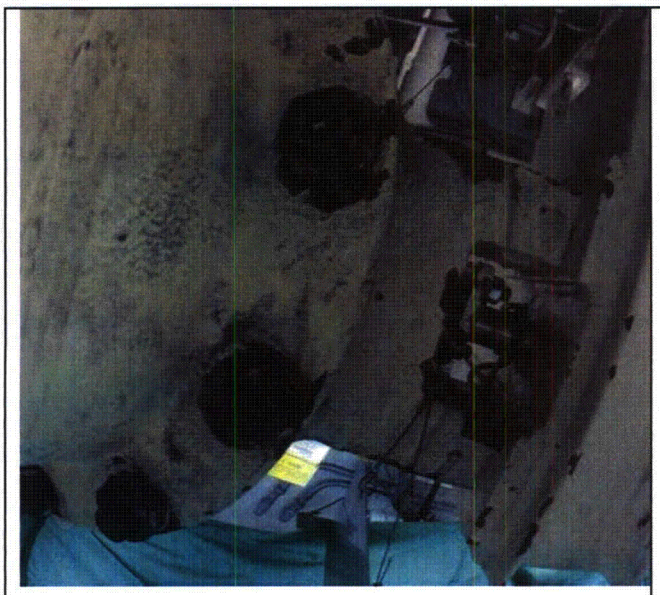
Seismic Walkdown Checklist (SWC) **SWEL1-014**

Equipment ID No. ACCMVAAA126-B Equip. Class Pneumatic-Operated Valves

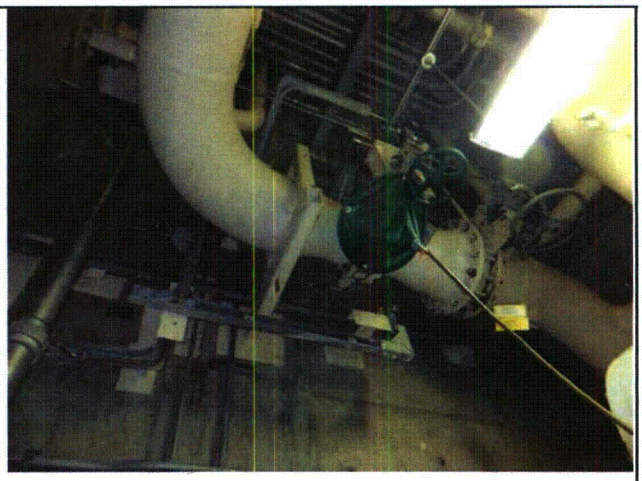
-OR- 3CC-TM291B

Equipment Description ACC HEADER B CCS HX OUTL TEMPERATURE CONTROL VALVE

Photographs



Note: Mild corrosion on hardware without paint



Note: Valve is leaking, previously documented and a funnel is in place

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-015

Equipment ID No. ACCMVAAA138-A Equip. Class[1] Pneumatic-Operated Valves

-OR-3CC-F284A

Equipment Description ACC WET COOLING TOWER A CROSS-CONNECT ISOLATION

Location: Bldg. CTA Floor El. -35 Room, Area COL 1M LINE P1

Manufacturer, Model, Etc. (optional but recommended) JAMESBURY CORP, 8126EAMODB

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-015

Equipment ID No. ACCMVAAA138-A -OR-3CC-F284A Equip. Class Pneumatic-Operated Valves

Equipment Description ACC WET COOLING TOWER A CROSS-CONNECT ISOLATION

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-015

Equipment ID No. ACCMVAAA138-A -OR-3CC-F284A Equip. Class Pneumatic-Operated Valves

Equipment Description ACC WET COOLING TOWER A CROSS-CONNECT ISOLATION

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- Yoke and bolt display moderate corrosion
- CR-WF3-2012-05269 and WR 287619 initiated to address moderate corrosion on yoke and bolt
- For area walk-by checklist see AWC-013

Evaluated by: Brian Pace Date: 10/5/12

Dinesh Patel 10/5/12

Sheet 4 of 5

Status: Y☒ N☐ U☐

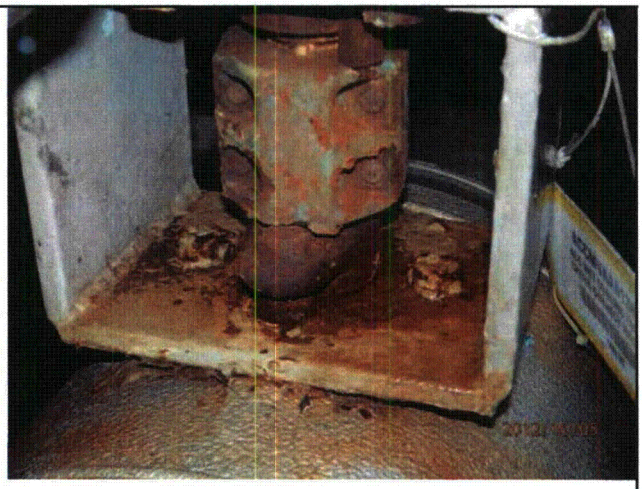
Seismic Walkdown Checklist (SWC) **SWEL1-015**

Equipment ID No. ACCMVAAA138-A -OR-3CC-F284A

Equip. Class Pneumatic-Operated Valves

Equipment Description ACC WET COOLING TOWER A CROSS-CONNECT ISOLATION

Photographs

	
Note: ACC wet cooling tower A cross-connect isolation	**Note:** Corrosion on yoke and bolt

Sheet 5 of 5

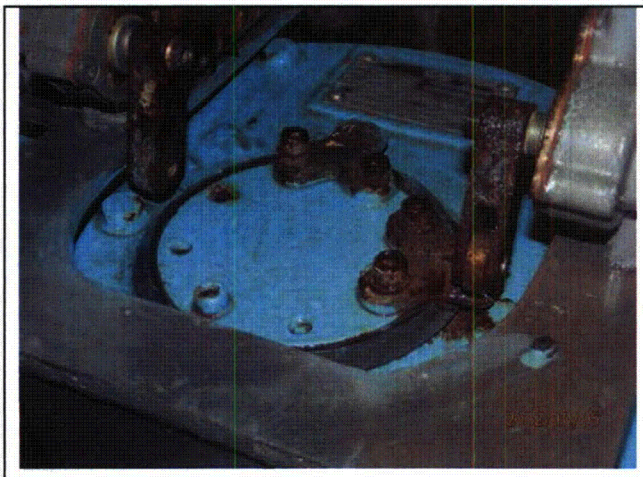
Status: Y☒ N☐ U☐

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

Equipment ID No. ACCMVAAA138-A -OR-3CC-F284A

Equip. Class Pneumatic-Operated Valves

Equipment Description ACC WET COOLING TOWER A CROSS-CONNECT ISOLATION



Note: Corrosion on valve

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-016

Equipment ID No. BAMMVAAA126-A Equip. Class[1] Pneumatic-Operated Valves

-OR- 3CH-F170A

Equipment Description Boric Acid Makeup Pump A Recirc Valve

Location: Bldg. RAB Floor El. -35 Room, Area B38, Col. 4A, Line H

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

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware free of corrosion

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-016

Equipment ID No. BAMMVAAA126-A Equip. Class Pneumatic-Operated Valves

-OR- 3CH-F170A

Equipment Description Boric Acid Makeup Pump A Recirc Valve

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - No seismic concern

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. BAMMVAAA126-A Equip. Class Pneumatic-Operated Valves

-OR- 3CH-F170A

Equipment Description Boric Acid Makeup Pump A Recirc 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)

- *Mild surface corrosion at bottom of yoke and bolt holding the limit switch; no seismic concern.* CR-WF3-2012-05230 and WR-287244 initiated to address this condition.
- For area walk-by checklist see ACW-005

Evaluated by: Dinesh Patel Date: 10/3/12

Natalie George 10/3/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-016

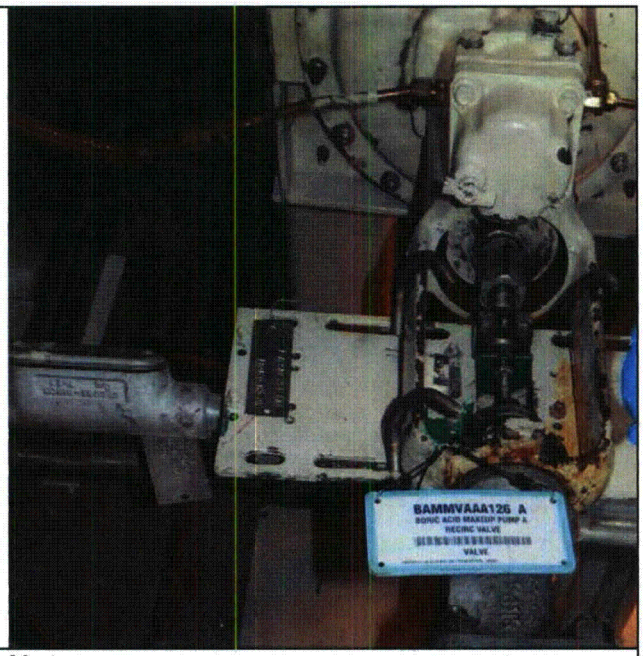
Equipment ID No. BAMMVAAA126-A Equip. Class Pneumatic-Operated Valves

-OR- 3CH-F170A

Equipment Description Boric Acid Makeup Pump A Recirc Valve

Photographs

Note: Boric Acid Makeup Pump A Recirc Valve



Note: Mild surface corrosion at bottom of yoke and bolt holding the limit switch

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-017

Equipment ID No. BD MVAAA103-A Equip. Class[1] PNEUMATIC OPERATED VALVES

-OR-

2BD-F604

Equipment Description S/G 1 BLOWDOWN OUTSIDE CONTAINMENT ISOLATION

Location: Bldg. RB Floor El. -4 Room, Area ROOM B100, COL 3A, LINE N

Manufacturer, Model, Etc. (optional but recommended) MASONEILAN INTL INC, 38-41421

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. BD MVAAA103-A Equip. Class PNEUMATIC OPERATED VALVES

-OR-

2BD-F604

Equipment Description S/G 1 BLOWDOWN OUTSIDE CONTAINMENT ISOLATION

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. BD MVAAA103-A Equip. Class PNEUMATIC OPERATED VALVES

-OR-

2BD-F604

Equipment Description S/G 1 BLOWDOWN OUTSIDE CONTAINMENT ISOLATION

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-030

Evaluated by: Natalie George Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

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

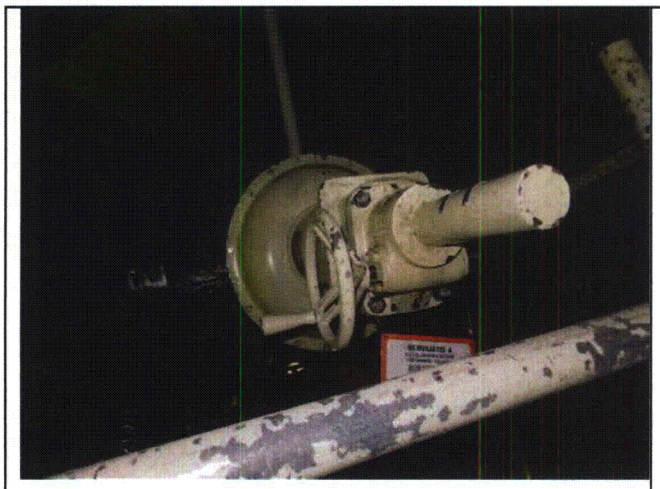
Equipment ID No. BD MVAAA103-A Equip. Class PNEUMATIC OPERATED VALVES

-OR-

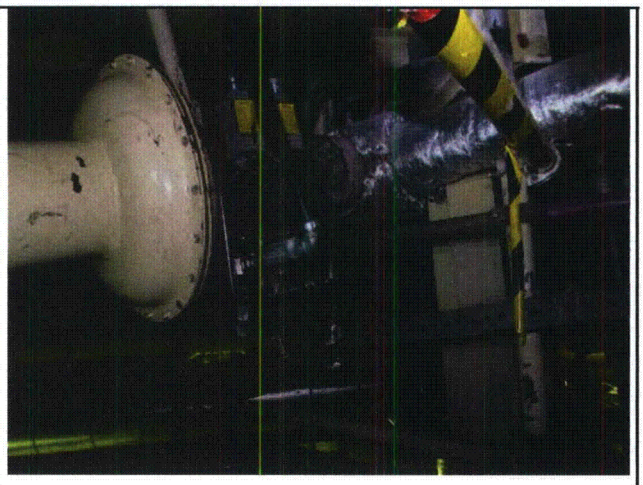
2BD-F604

Equipment Description S/G 1 BLOWDOWN OUTSIDE CONTAINMENT ISOLATION

Photographs



Note: S/G 1 blowdown outside containment isolation BD MVAAA103-A



Note: S/G 1 blowdown outside containment isolation BD MVAAA103-A

Sheet 1 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. BM MVAAA109 Equip. Class[1] Pneumatic-Operated Valves

-OR- 2BM-F108A/B

Equipment Description Reactor Drain Tank Outlet Inside Containment Isolation

Location: Bldg. RCB Floor El. -11 Room, Area Room 421

Manufacturer, Model, Etc. (optional but recommended) ITT Grinnell, 3225

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

See Attachment K - Revision 1

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-018

Equipment ID No. BM MVAAA109 Equip. Class Pneumatic-Operated Valves

-OR- 2BM-F108A/B

Equipment Description Reactor Drain Tank Outlet Inside Containment Isolation

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

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

Interaction Effects

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

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

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

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

See Attachment K - Revision 1

Sheet 3 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. BM MVAAA109 Equip. Class Pneumatic-Operated Valves

-OR- 2BM-F108A/B

Equipment Description Reactor Drain Tank Outlet Inside Containment Isolation

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

_____

See Attachment K - Revision 1

Sheet 4 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. BM MVAAA109 Equip. Class Pneumatic-Operated Valves

-OR- 2BM-F108A/B

Equipment Description Reactor Drain Tank Outlet Inside Containment Isolation

Photographs

Note:	**Note:**

See Attachment K - Revision 1

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-019

Equipment ID No. CAPMVAAA103 Equip. Class[1] Pneumatic-Operated Valves

-OR- 2HV-B151A

Equipment Description Containment Purge Inlet Inside Annulus

Location: Bldg. ANN Floor El. +21 Room, Area Room 420

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Company, Inc., 9220-48IN

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

See Attachment K - Revision 1

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. CAPMVAAA103 Equip. Class Pneumatic-Operated Valves

-OR- 2HV-B151A

Equipment Description Containment Purge Inlet Inside Annulus

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

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

Interaction Effects

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

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

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

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

See Attachment K - Revision 1

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-019

Equipment ID No. CAPMVAAA103 Equip. Class Pneumatic-Operated Valves

-OR- 2HV-B151A

Equipment Description Containment Purge Inlet Inside Annulus

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

_____ _____

See Attachment K - Revision 1

Sheet 4 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. CAPMVAAA103 Equip. Class Pneumatic-Operated Valves

-OR- 2HV-B151A

Equipment Description Containment Purge Inlet Inside Annulus

Photographs

Note:	**Note:**

See Attachment K - Revision 1

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-020

Equipment ID No. CC MVAAA135-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 3CC-B203B

Equipment Description DRY COOLING TOWER B CCW INLET ISOLATION

Location: Bldg. CTB Floor El. -35 Room, Area ROOM B60A COL 12A LINE S

Manufacturer, Model, Etc. (optional but recommended) JAMESBURY CORP, 8026E

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware connecting valve to pipe is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware connecting valve to pipe is free of corrosion, painted

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 5

Status: Y☒ N☐ U☐

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

Equipment ID No. CC MVAAA135-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-B203B

Equipment Description DRY COOLING TOWER B CCW INLET ISOLATION

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 5

Status: Y☒ N☐ U☐

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

Equipment ID No. CC MVAAA135-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-B203B

Equipment Description DRY COOLING TOWER B CCW INLET ISOLATION

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☐ N☒ U☐
    - Bolts do not have sufficient thread interaction on plate that connects solenoid to valve
    - Nuts are missing on connection plate
    - CR-WF3-2012-04905, WR 285749, and EC 40135 initiated to address insufficient thread interaction of bolts on plate that connects solenoid to valve.

Comments (Additional pages may be added as necessary)

- Corrosion on the pipe connection; no seismic concern
- For area walk-by checklist see AWC-011

Evaluated by: Dinesh Patel Date: 10/01/2012

Chu-Chieh Lin 10/01/2012

Sheet 4 of 5

Status: Y☒ N☐ U☐

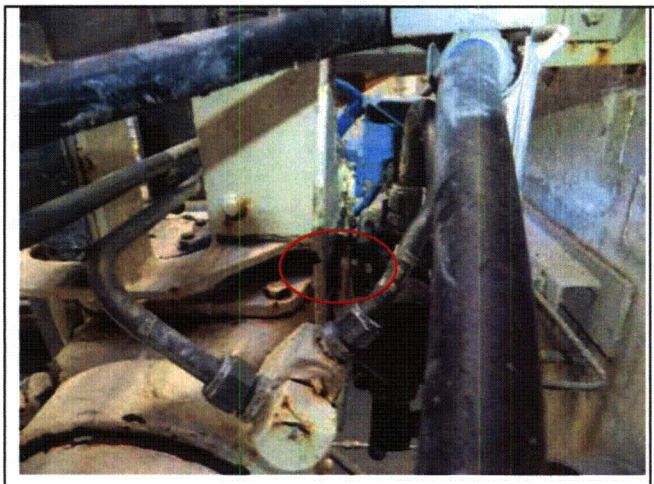
Seismic Walkdown Checklist (SWC) **SWEL1-020**

Equipment ID No. CC MVAAA135-B Equip. Class Pneumatic-Operated Valves

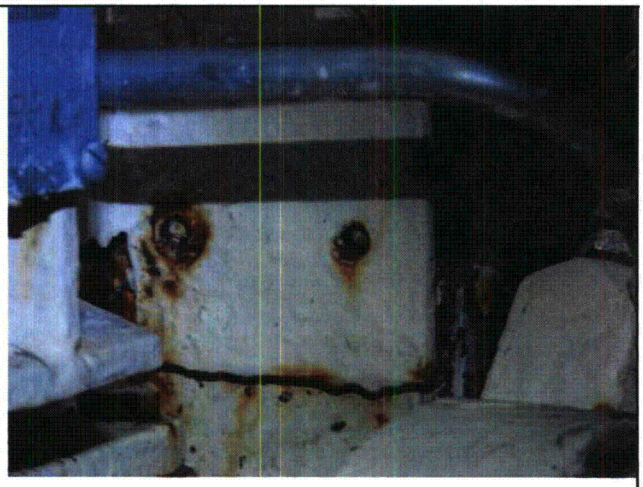
-OR- 3CC-B203B

Equipment Description DRY COOLING TOWER B CCW INLET ISOLATION

Photographs



Note: Missing nuts on the connection plate



Note: Missing nuts on the connection plate

Sheet 5 of 5

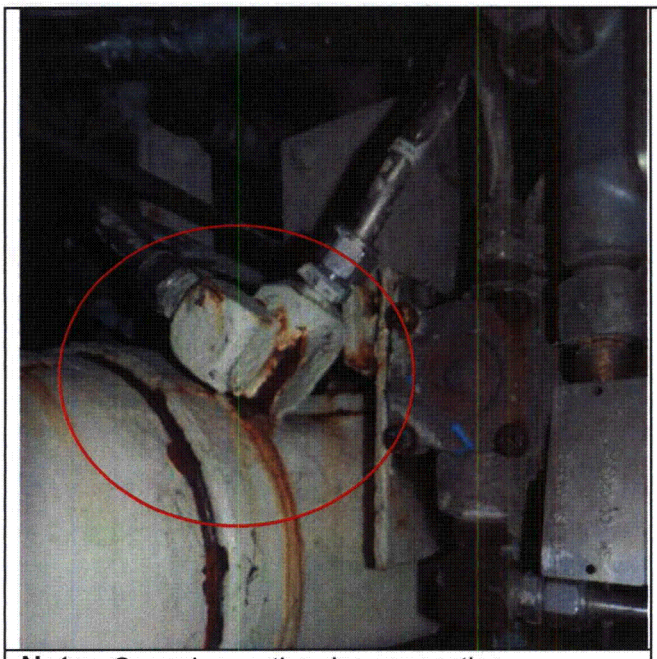
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-020

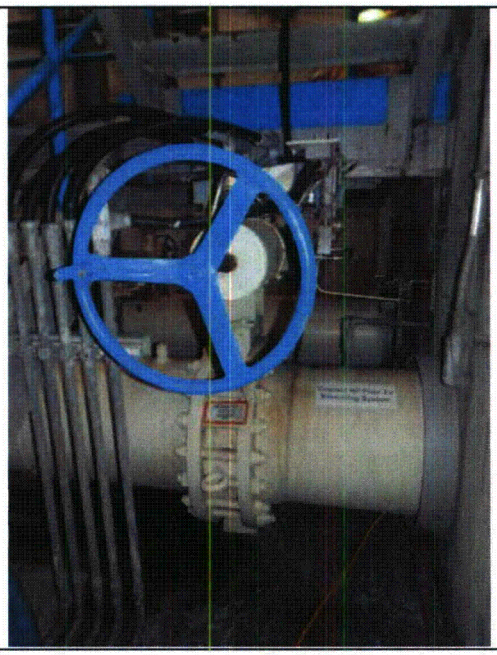
Equipment ID No. CC MVAAA135-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-B203B

Equipment Description DRY COOLING TOWER B CCW INLET ISOLATION



Note: Corrosion on the pipe connection



Note: Dry cooling tower B CCW inlet isolation

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-021

Equipment ID No. CC MVAAA322-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 3CC-F275B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

Location: Bldg. RAB Floor El. +21 Room, Area Room 236, Col. 3A, Line K

Manufacturer, Model, Etc. (optional but recommended) Jamesbury Corp., 8026

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☒
   - This is an in-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - This is an in-line component
   - Valve hardware is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - This is an in-line component
   - Valve hardware is free of corrosion

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - This is an in-line component

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-021

Equipment ID No. CC MVAAA322-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-F275B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Attached conduits are flexible

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 are satisfied

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. CC MVAAA322-B Equip. Class Pneumatic-Operated Valves

-OR- 3CC-F275B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- There is a leak on the valve, but it is monitored. A funnel is installed, which leads to a floor drain. This poses no seismic concern.
- For area walk-by checklist see AWC-024

Evaluated by: Brian Pace Date: 10-12-2012

Dinesh Patel 10-12-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

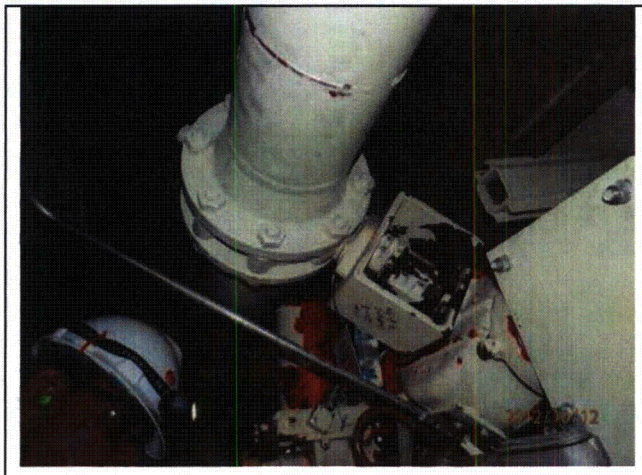
Seismic Walkdown Checklist (SWC) **SWEL1-021**

Equipment ID No. CC MVAAA322-B Equip. Class Pneumatic-Operated Valves

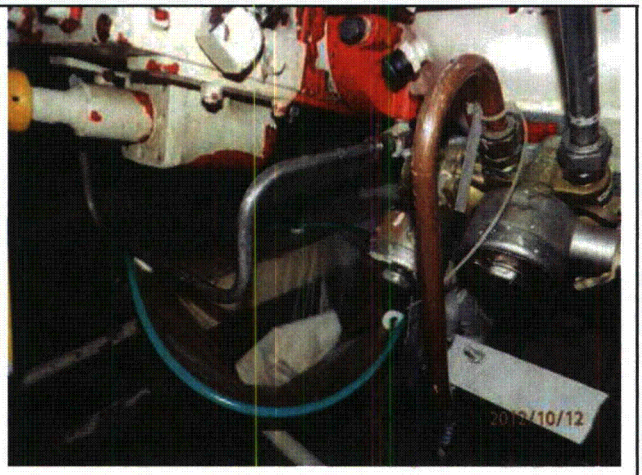
-OR- 3CC-F275B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

Photographs



Note: CC MVAAA322-B



Note: Funnel for monitored leak

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-022

Equipment ID No. CC MVAAA835-A Equip. Class[1] PNEUMATIC OPERATED VALVES

-OR-

3CC-TM148A

Equipment Description CNTMT FAN COOLERS TRAIN A TEMPERATURE CONTROL

Location: Bldg. RB Floor El. -4 Room, Area ROOM B100, COL 5A, LINE L

Manufacturer, Model, Etc. (optional but recommended) FISHER CONTROLS CO INC, 9211

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - All valve hardware is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - All valve hardware is corrosion free and painted

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-022

Equipment ID No. CC MVAAA835-A Equip. Class PNEUMATIC OPERATED VALVES

-OR-

3CC-TM148A

Equipment Description CNTMT FAN COOLERS TRAIN A TEMPERATURE CONTROL

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

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

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. CC MVAAA835-A Equip. Class PNEUMATIC OPERATED VALVES

-OR-

3CC-TM148A

Equipment Description CNTMT FAN COOLERS TRAIN A TEMPERATURE CONTROL

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-030

Evaluated by: Natalie George Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

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

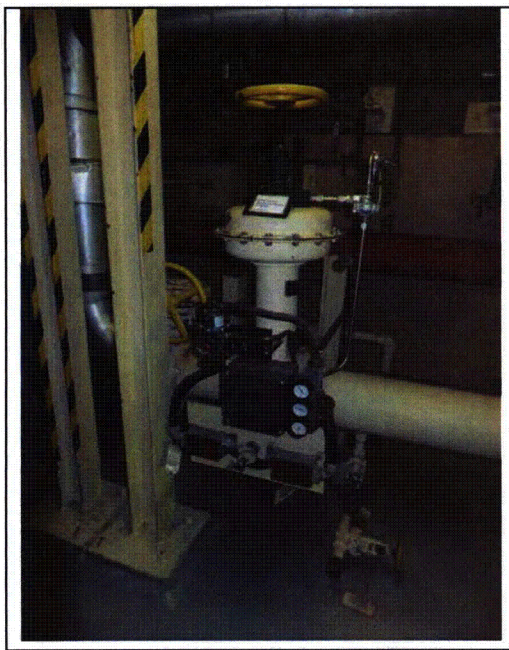
Equipment ID No. CC MVAAA835-A Equip. Class PNEUMATIC OPERATED VALVES

-OR-

3CC-TM148A

Equipment Description CNTMT FAN COOLERS TRAIN A TEMPERATURE CONTROL

Photographs



Note: Containment fan coolers Train A temperature control

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-023

Equipment ID No. CC MVAAA963-A Equip. Class[1] Pneumatic-Operated Valves

-OR- 3CC-F130A

Equipment Description Shutdown Heat Exchanger A CCW Flow Control

Location: Bldg. RAB Floor El. -35 Room, Area Room B17, Col. 11A, Line J

Manufacturer, Model, Etc. (optional but recommended) Jamesbury Corp., 8926EX

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Valve hardware is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Valve hardware is corrosion free and painted

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. CC MVAAA963-A Equip. Class Pneumatic-Operated Valves

-OR- 3CC-F130A

Equipment Description Shutdown Heat Exchanger A CCW Flow Control

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. CC MVAAA963-A Equip. Class Pneumatic-Operated Valves

-OR- 3CC-F130A

Equipment Description Shutdown Heat Exchanger A CCW Flow Control

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-003

Evaluated by: Natalie George Natalie George Date: 10/8/12

Chu-Chieh Lin 10/8/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

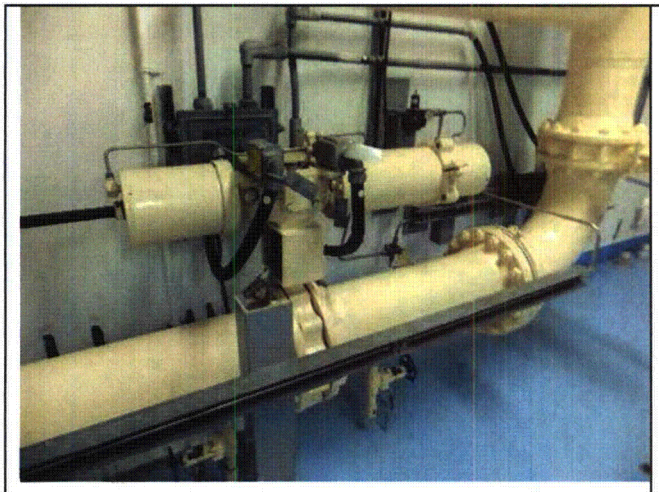
Seismic Walkdown Checklist (SWC) **SWEL1-023**

Equipment ID No. CC MVAAA963-A Equip. Class Pneumatic-Operated Valves

-OR- 3CC-F130A

Equipment Description Shutdown Heat Exchanger A CCW Flow Control

Photographs



Note: Shutdown Heat Exchanger A CCW Flow Control

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-024

Equipment ID No. CMUISV0407-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 6CD-F658

Equipment Description SV FOR CMU-407B

Location: Bldg. CTB Floor El. -35 Room, Area ROOM B59A COL 12M LINE P1

Manufacturer, Model, Etc. (optional but recommended) ASCO - AUTOMATIC SWITCH C, NP8321A1E

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☒
   - In-line component attached to valve CMUMVAAA407-B

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Two bolts attach the switch to the valve

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Mild surface corrosion on both bolts and the support. These pose no seismic concern.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - In-line component attached to valve CMUMVAAA407-B

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-024

Equipment ID No. CMUISV0407-B Equip. Class Pneumatic-Operated Valves

-OR- 6CD-F658

Equipment Description SV FOR CMU-407B

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   - In-line component attached to valve CMUMVAAA407-B.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   - Overhead pipes and structural members well supported.

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

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied.

Sheet 3 of 5

Status: Y☒ N☐ U☐

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

Equipment ID No. CMUISV0407-B Equip. Class Pneumatic-Operated Valves

-OR- 6CD-F658

Equipment Description SV FOR CMU-407B

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- Mild corrosion on limit switch support
- For area walk-by checklist see AWC-009

Evaluated by: Dinesh Patel Date: 10/15/2012

Brian Pace 10/15/2012

Sheet 4 of 5

Status: Y☒ N☐ U☐

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

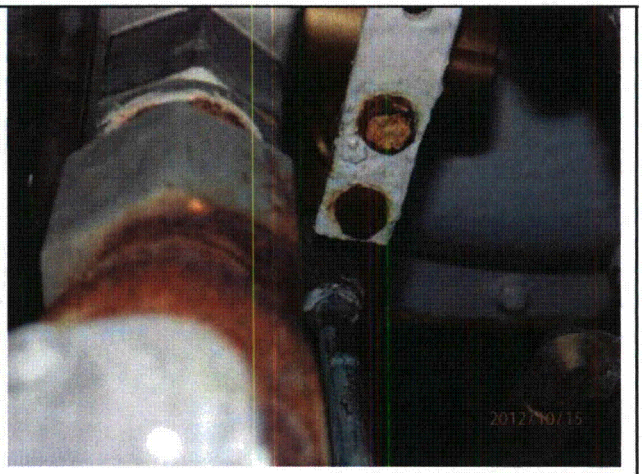
Equipment ID No. CMUISV0407-B Equip. Class Pneumatic-Operated Valves

-OR- 6CD-F658

Equipment Description SV FOR CMU-407B

Photographs

Note: Two bolts attaching switch to support.



Note: Mild corrosion on bolts and support

Sheet 5 of 5

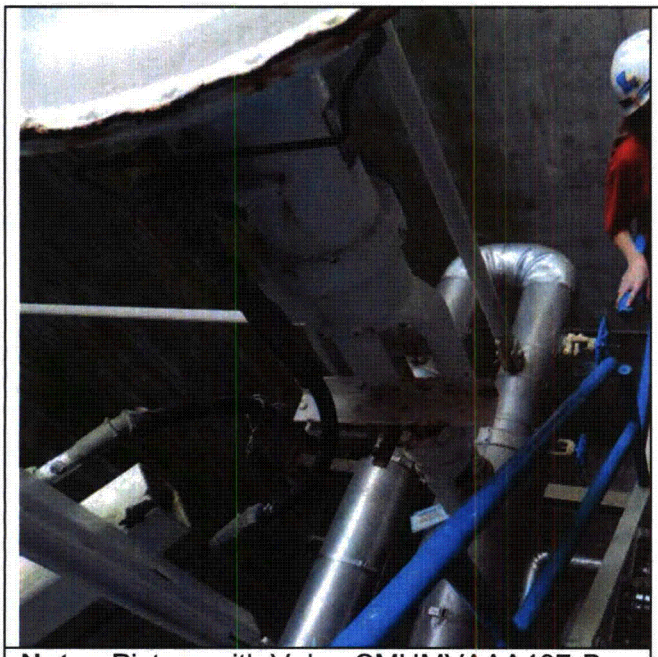
Status: Y☒ N☐ U☐

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

Equipment ID No. CMUISV0407-B Equip. Class Pneumatic-Operated Valves

-OR- 6CD-F658

Equipment Description SV FOR CMU-407B



Note: Picture with Valve CMUMVAAA407-B and its limit switch.

Sheet 1 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. CS MVAAA125-B Equip. Class[1] Pneumatic-Operated Valves

-OR-

2CS-F306B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

Location: Bldg. RB Floor El. -35 Room, Area Room B53, Col. 9A, Line M

Manufacturer, Model, Etc. (optional but recommended) WKM DIV/ACF IND INC, C3

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☒
   - This is an in-line component and therefore does not require anchorage verification

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Welds between valve and pipe are accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Welds between valve and pipe are free of corrosion

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-025

Equipment ID No. CS MVAAA125-B Equip. Class Pneumatic-Operated Valves

-OR-

2CS-F306B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - This is an in-line component. All connection points for the valve are in good condition.

Interaction Effects

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

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

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

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. CS MVAAA125-B Equip. Class Pneumatic-Operated Valves

-OR-

2CS-F306B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-028

Evaluated by: Brian Pace Date: 10-15-2012

Dinesh Patel 10-15-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

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

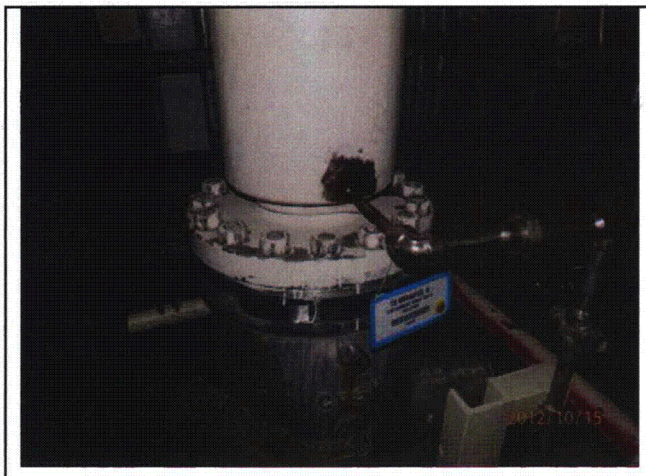
Equipment ID No. CS MVAAA125-B Equip. Class Pneumatic-Operated Valves

-OR-

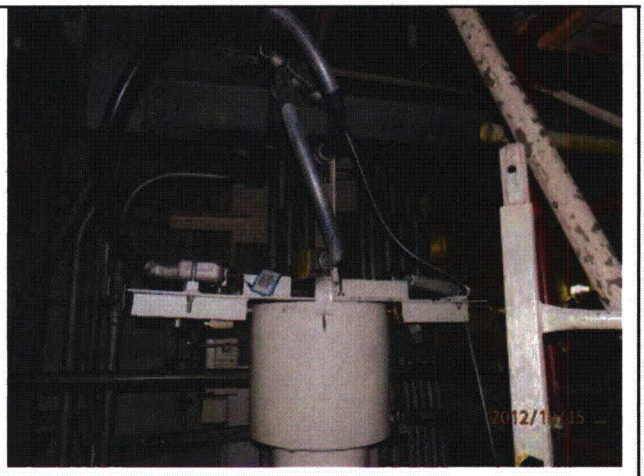
2CS-F306B

Equipment Description CCW HEADER B RETURN FROM ESSENTIAL CHILLERS ISOLATION

Photographs



Note: Valve CS MVAAA125-B



Note: Flexible conduits

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-026

Equipment ID No. CVCMVAAA209 Equip. Class[1] PNEUMATIC-OPERATED VALVES

-OR-

2CH-F1529A/B

Equipment Description CHARGING HEADER ISOLATION

Location: Bldg. RB Floor El. +21 Room, Area ROOM 225B, COL 10A, LINE M

Manufacturer, Model, Etc. (optional but recommended) WKM DIV/ACF IND INC, M1

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

See Attachment K - Revision 1

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-026**

Equipment ID No. CVCMVAAA209 -OR- 2CH-F1529A/B Equip. Class PNEUMATIC-OPERATED VALVES

Equipment Description CHARGING HEADER ISOLATION

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

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

Interaction Effects

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

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

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

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

See Attachment K - Revision 1

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-026**

Equipment ID No. CVCMVAAA209 Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

2CH-F1529A/B

Equipment Description CHARGING HEADER ISOLATION

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

See Attachment K - Revision 1

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-026**

Equipment ID No. CVCMVAAA209 Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

2CH-F1529A/B

Equipment Description CHARGING HEADER ISOLATION

Photographs

Note:	**Note:**

See Attachment K - Revision 1

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-027

Equipment ID No. EFWMVAAA223-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 2FW-V854B

Equipment Description EMERGENCY FEEDWATER HDR B TO SG2 BACKUP FLOW CNTRL

Location: Bldg. RB Floor El. +46 Room, Area ROOM R2, COL 11A, LINE N

Manufacturer, Model, Etc. (optional but recommended) MASONEILAN INTL INC, 4740512

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3).

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. EFWMVAAA223-B Equip. Class Pneumatic-Operated Valves

-OR- 2FW-V854B

Equipment Description EMERGENCY FEEDWATER HDR B TO SG2 BACKUP FLOW CNTRL

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-027

Equipment ID No. EFWMVAAA223-B Equip. Class Pneumatic-Operated Valves

-OR- 2FW-V854B

Equipment Description EMERGENCY FEEDWATER HDR B TO SG2 BACKUP FLOW 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☐

Comments (Additional pages may be added as necessary)

- Mild corrosion on valve diaphragm, diaphragm bolts, and actuator; no seismic concern
- Corrosion on bolt hole on top of valve; no seismic concern
- CR-WF3-2012-05275 and WR-287627 initiated to address these conditions.
- For area walk-by checklist see AWC-044

Natalie George

Evaluated by: Natalie George Date: 10/12/12

Chu-Chieh Lin 10/12/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

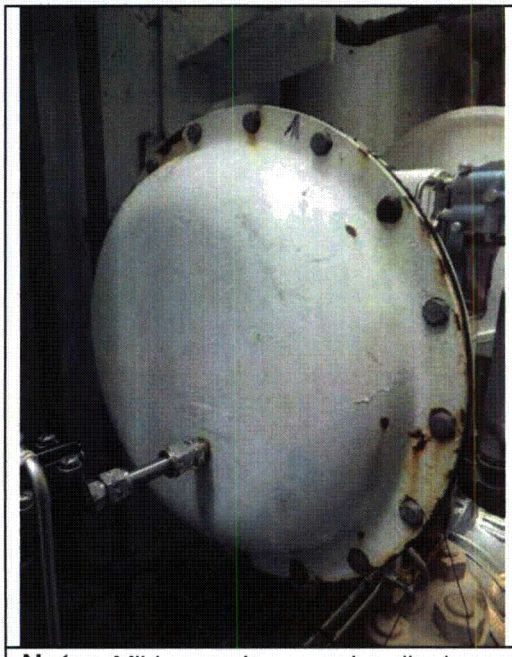
Seismic Walkdown Checklist (SWC) **SWEL1-027**

Equipment ID No. EFWMVAAA223-B Equip. Class Pneumatic-Operated Valves

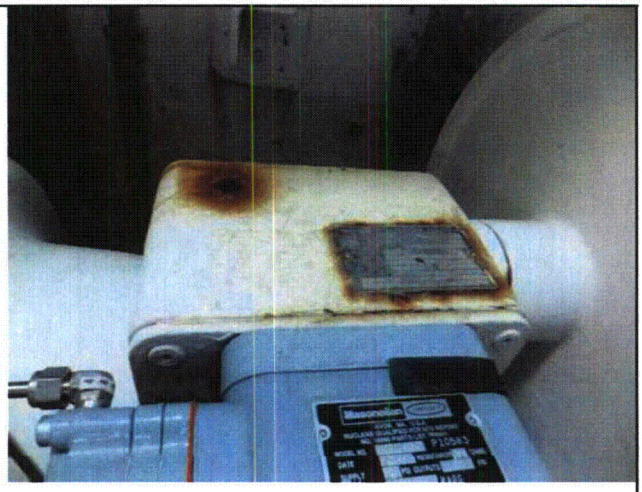
-OR- 2FW-V854B

Equipment Description EMERGENCY FEEDWATER HDR B TO SG2 BACKUP FLOW CNTRL

Photographs



Note: Mild corrosion on valve diaphragm, diaphragm bolts, and actuator



Note: Corrosion on bolt hole on top of valve

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-028

Equipment ID No. EFWMVAAA229-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 2FW-V849A

Equipment Description EMERGENCY FEEDWATER TO SG2 BACKUP ISOLATION

Location: Bldg. RB Floor El. +46 Room, Area ROOM R2 COL 11A LINE N

Manufacturer, Model, Etc. (optional but recommended) MASONEILAN INTL INC, 4740411

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. EFWMVAAA229-B Equip. Class Pneumatic-Operated Valves

-OR- 2FW-V849A

Equipment Description EMERGENCY FEEDWATER TO SG2 BACKUP ISOLATION

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. EFWMVAAA229-B Equip. Class Pneumatic-Operated Valves

-OR- 2FW-V849A

Equipment Description EMERGENCY FEEDWATER TO SG2 BACKUP ISOLATION

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- Corrosion on top of valve, in bolt hole; no seismic concern. CR-WF3-2012-05230 and WR-287245 initiated to address this condition.
- For area walk-by checklist see AWC-044

Natalie George

Evaluated by: Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

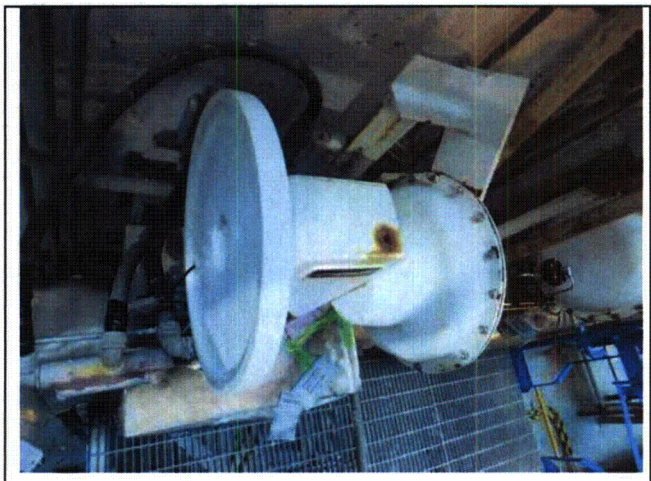
Seismic Walkdown Checklist (SWC) **SWEL1-028**

Equipment ID No. EFWMVAAA229-B Equip. Class Pneumatic-Operated Valves

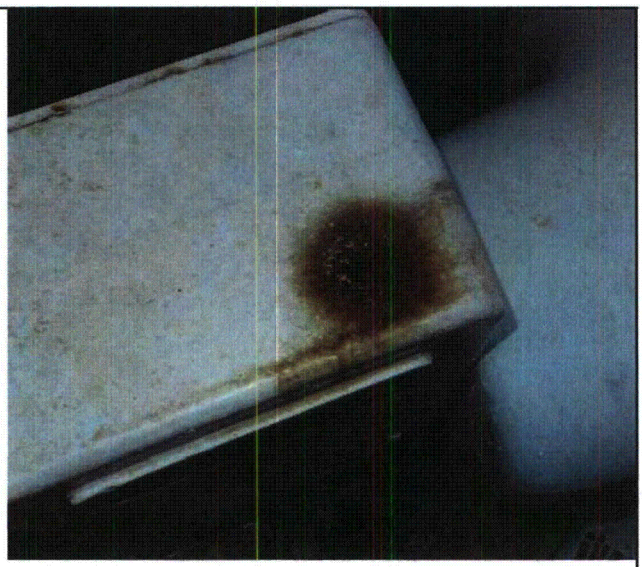
-OR- 2FW-V849A

Equipment Description EMERGENCY FEEDWATER TO SG2 BACKUP ISOLATION

Photographs



Note: Corrosion on top of valve, in bolt hole



Note: Corrosion on top of valve, in bolt hole

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-029

Equipment ID No. HVCMVAAA205-A Equip. Class[1] PNEUMATIC-OPERATED VALVES

-OR-

D-17 (SA)

Equipment Description CONTROL ROOM EMER FLTR A INLET DAMPER

Location: Bldg. RAB Floor El. +46 Room, Area 314, LINE 8A, COL L

Manufacturer, Model, Etc. (optional but recommended) AMERICAN WARMING AND VENTIL, DAAP7402

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☒ N/A☐
   - In-line component
   - Covered by insulation

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☒ N/A☐
   - In-line component
   - Covered by insulation

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. HVCMVAAA205-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-17 (SA)

Equipment Description CONTROL ROOM EMER FLTR A INLET DAMPER

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. HVCMVAAA205-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-17 (SA)

Equipment Description CONTROL ROOM EMER FLTR A INLET DAMPER

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-038

Evaluated by: Natalie George Date: 10/10/12

Chu-Chieh Lin 10/10/12

Sheet 4 of 4

Status: Y☐ N☒ U☐

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

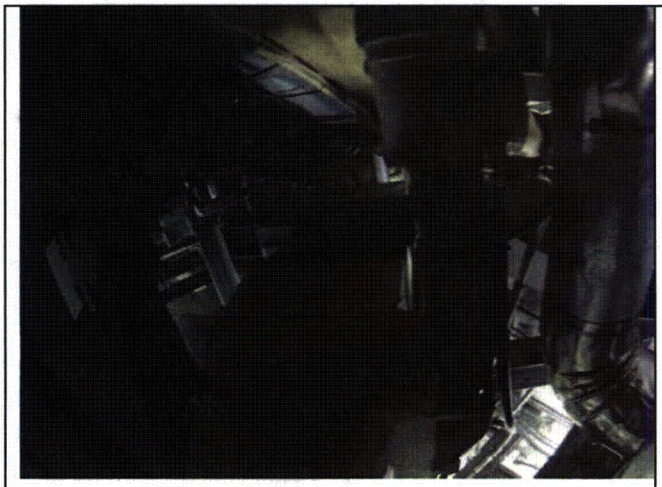
Equipment ID No. HVCMVAAA205-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-17 (SA)

Equipment Description CONTROL ROOM EMER FLTR A INLET DAMPER

Photographs

	
Note: Valve HVCMVAAA205-A	**Note:**

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-030

Equipment ID No. HVRMVAAA107 Equip. Class[1] Pneumatic-Operated Valves

-OR- 3HV-B227B

Equipment Description RAB Normal Supply to CVAS Downstream Isolation

Location: Bldg. RAB Floor El. -35 Room, Area Room B17, Col. 8A, Line J

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Company, Inc., 9220-36IN

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☒
   - *In-line component*

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-030

Equipment ID No. HVRMVAAA107 Equip. Class Pneumatic-Operated Valves

-OR- 3HV-B227B

Equipment Description RAB Normal Supply to CVAS Downstream Isolation

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. HVRMVAAA107 Equip. Class Pneumatic-Operated Valves

-OR- 3HV-B227B

Equipment Description RAB Normal Supply to CVAS Downstream Isolation

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-003

Evaluated by: Natalie George Natalie George Date: 10/10/12

Chu-Chieh Lin Chu-Chieh Lin 10/10/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-030

Equipment ID No. HVRMVAAA107 Equip. Class Pneumatic-Operated Valves

-OR- 3HV-B227B

Equipment Description RAB Normal Supply to CVAS Downstream Isolation

Photographs

Note: RAB Normal Supply to CVAS Downstream Isolation

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-031

Equipment ID No. HVRMVAAA303-A Equip. Class[1] PNEUMATIC-OPERATED VALVES

-OR-

D-71 (SA)

Equipment Description CVAS FILTER TRAIN A MINIMUM FLOW INLET

Location: Bldg. RAB Floor El. +46 Room, Area 299, COL 6A, LINE J

Manufacturer, Model, Etc. (optional but recommended) AMERICAN WARMING &VENTIL, SO9018173

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware is free of corrosion

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. HVRMVAAA303-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-71 (SA)

Equipment Description CVAS FILTER TRAIN A MINIMUM FLOW INLET

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. HVRMVAAA303-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-71 (SA)

Equipment Description CVAS FILTER TRAIN A MINIMUM FLOW 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)

- For area walk-by checklist see AWC-037

Evaluated by: Natalie George Natalie George Date: 10/10/12

Chu-Chieh Lin Chu-Chieh Lin 10/10/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

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

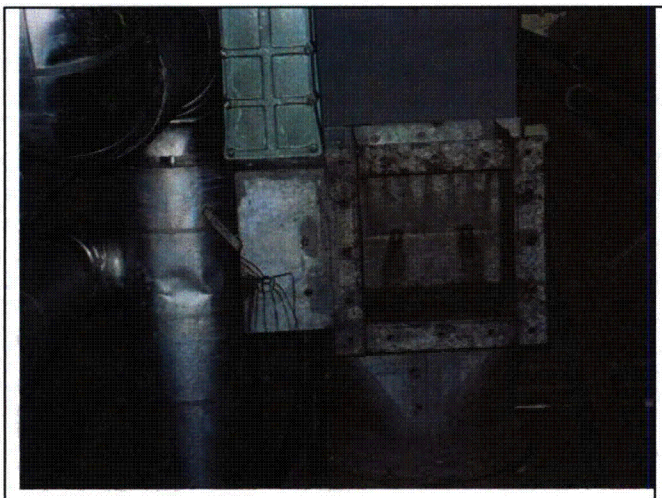
Equipment ID No. HVRMVAAA303-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-71 (SA)

Equipment Description CVAS FILTER TRAIN A MINIMUM FLOW INLET

Photographs



Note: CVAS Filter Train A Minimum Flow Inlet

Note: Example of valve hardware

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-032

Equipment ID No. HVRMVAAA502-A Equip. Class[1] PNEUMATIC-OPERATED VALVES

-OR-

D-6(SA)

Equipment Description EG A ROOM EXHAUST FAN VARIABLE PITCH BLADE

Location: Bldg. RAB Floor El. +46 Room, Area 304, COL 2A, LINE J

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Four bolts connecting damper to mounting bracket. This bracket is welded to motor housing. All hardware is in good condition.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on any anchorage on the damper.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - This damper is mounted to a steel bracket, which is welded to the fan motor housing. No concrete is present.

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-032

Equipment ID No. HVRMVAAA502-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-6(SA)

Equipment Description EG A ROOM EXHAUST FAN VARIABLE PITCH BLADE

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - *Questions 2 and 3 satisfied ; no seismic concern*

Interaction Effects

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

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

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

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-032

Equipment ID No. HVRMVAAA502-A Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

D-6(SA)

Equipment Description EG A ROOM EXHAUST FAN VARIABLE PITCH BLADE

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- See AWC-036 for Area Walk-By Checklist

Evaluated by: Dinesh Patel Date: 10-08-2012

Brian Pace 10-08-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-032

Equipment ID No. HVRMVAAA502-A Equip. Class PNEUMATIC-OPERATED VALVES

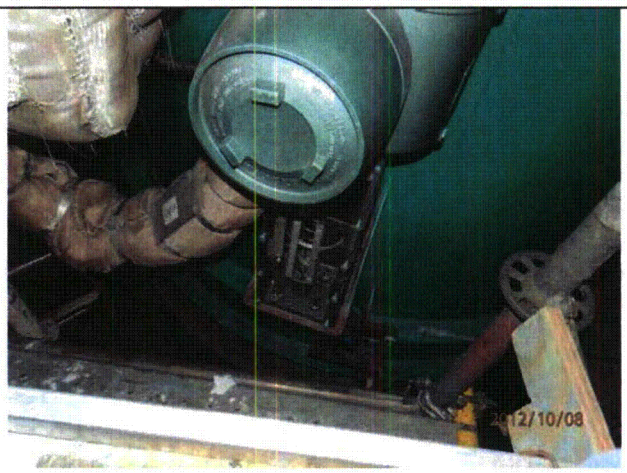
-OR-

D-6(SA)

Equipment Description EG A ROOM EXHAUST FAN VARIABLE PITCH BLADE

Photographs

Note: HVRMVAAA502-A



Note: HBRMVAAA502-A

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-033

Equipment ID No. IA MVAAA909 Equip. Class[1] PNEUMATIC-OPERATED VALVES

-OR-

2IA-F601A/B

Equipment Description IA ISOL TO CONTAINMENT @ PEN #9

Location: Bldg. RB Floor El. -4 Room, Area ROOM B100, COL 10A, LINE M

Manufacturer, Model, Etc. (optional but recommended) WKM DIV/ACF IND INC, 70281DRT

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware is free of corrosion, painted

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-033

Equipment ID No. IA MVAAA909 Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

2IA-F601A/B

Equipment Description IA ISOL TO CONTAINMENT @ PEN #9

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-033**

Equipment ID No. IA MVAAA909 Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

2IA-F601A/B

Equipment Description IA ISOL TO CONTAINMENT @ PEN #9

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-030

Evaluated by: Natalie George Natalie George Date: 10/5/12

Chu-Chieh Lin Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-033**

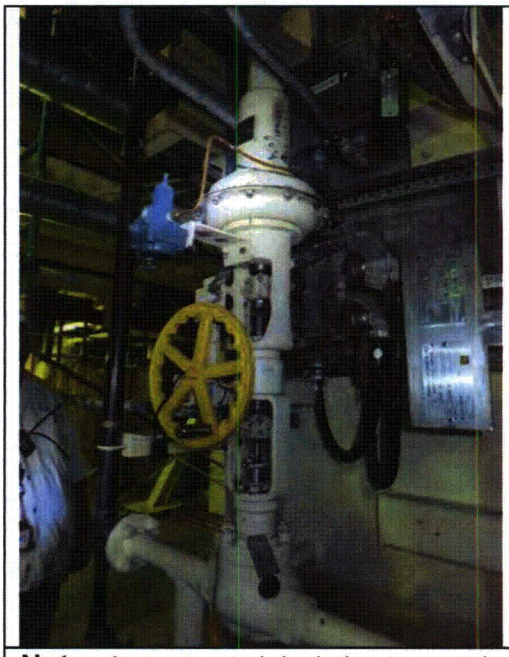
Equipment ID No. IA MVAAA909 Equip. Class PNEUMATIC-OPERATED VALVES

-OR-

2IA-F601A/B

Equipment Description IA ISOL TO CONTAINMENT @ PEN #9

Photographs



Note: Instrument air isolation to containment at penetration #9

Note: Valve hardware

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-034

Equipment ID No. MS MVAAA116-A Equip. Class[1] Pneumatic-Operated Valves

-OR- 2MS-PM629A

Equipment Description STEAM GENERATOR 1 ATMOSPHERE DUMP VALVE

Location: Bldg. RB Floor El. +46 Room, Area ROOM R1 COL 3A LINE M

Manufacturer, Model, Etc. (optional but recommended) CONTROL COMPONENTS INTERN, M3A610X8BW12BW31MT31

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-034

Equipment ID No. MS MVAAA116-A Equip. Class Pneumatic-Operated Valves

-OR- 2MS-PM629A

Equipment Description STEAM GENERATOR 1 ATMOSPHERE DUMP VALVE

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. MS MVAAA116-A Equip. Class Pneumatic-Operated Valves

-OR- 2MS-PM629A

Equipment Description STEAM GENERATOR 1 ATMOSPHERE DUMP 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)

- Mild corrosion on valve; no seismic concern. CR-WF3-2012-05230 and WR-287246 initiated to address this condition.
- For area walk-by checklist see AWC-042

Evaluated by: Natalie George Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

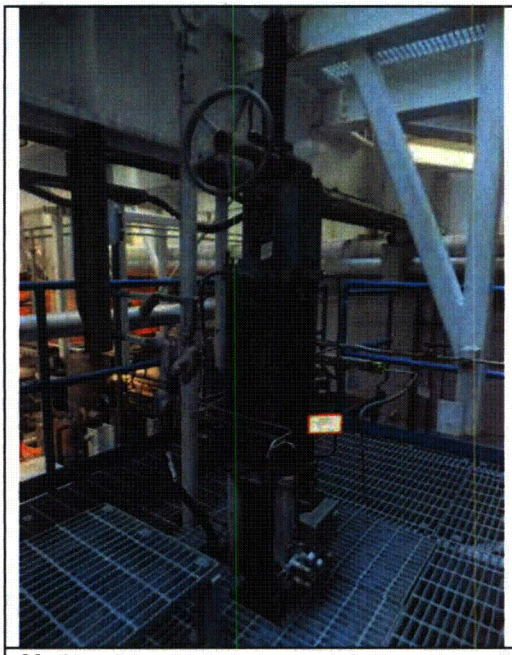
Seismic Walkdown Checklist (SWC) SWEL1-034

Equipment ID No. MS MVAAA116-A Equip. Class Pneumatic-Operated Valves

-OR- 2MS-PM629A

Equipment Description STEAM GENERATOR 1 ATMOSPHERE DUMP VALVE

Photographs



Note: Steam Generator 1 Atmosphere Dump Valve

Note: Mild corrosion on valve

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-035

Equipment ID No. MS MVAAA124-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 2MS-V604B

Equipment Description MAIN STEAM ISOLATION VALVE 2

Location: Bldg. RB Floor El. +46 Room, Area ROOM R2 COL 10A LINE L

Manufacturer, Model, Etc. (optional but recommended) WKM DIV/ACF IND INC, D2PRSMSIV

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Inspection and Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Inspection and Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-035

Equipment ID No. MS MVAAA124-B Equip. Class Pneumatic-Operated Valves

-OR- 2MS-V604B

Equipment Description MAIN STEAM ISOLATION VALVE 2

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. MS MVAAA124-B Equip. Class Pneumatic-Operated Valves

-OR- 2MS-V604B

Equipment Description MAIN STEAM ISOLATION VALVE 2

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- Mild corrosion on valve and bolts; no seismic concern. CR-WF3-2012-05275 and WR-287628 initiated to address this condition.
- An attached valve is leaking; see AWC-043 for more information
- For area walk-by checklist see AWC-043

Evaluated by: Natalie George Natalie George Date: 10/12/12

Chu-Chieh Lin 10/12/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

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

Equipment ID No. MS MVAAA124-B Equip. Class Pneumatic-Operated Valves

-OR- 2MS-V604B

Equipment Description MAIN STEAM ISOLATION VALVE 2

Photographs

Note: Main Steam Isolation Valve 2

Note: Mild corrosion on valve and bolts

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-036

Equipment ID No. SI MVAAA129-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 2SI-FM348B

Equipment Description LPSI Pump B Discharge Flow Control (Control of Shutdown Cooling Flow)

Location: Bldg. RAB Floor El. -35 Room, Area Room B16, Col. 9A, Line K

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Company, Inc., Model 7711

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-036

Equipment ID No. SI MVAAA129-B Equip. Class Pneumatic-Operated Valves

-OR- 2SI-FM348B

Equipment Description LPSI Pump B Discharge Flow Control (Control of Shutdown Cooling Flow)

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-036**

Equipment ID No. SI MVAAA129-B Equip. Class Pneumatic-Operated Valves

-OR- 2SI-FM348B

Equipment Description LPSI Pump B Discharge Flow Control (Control of Shutdown Cooling Flow)

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by see AWC-001

Evaluated by: Dinesh Patel Date: 10/2/12

Natalie George 10/2/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

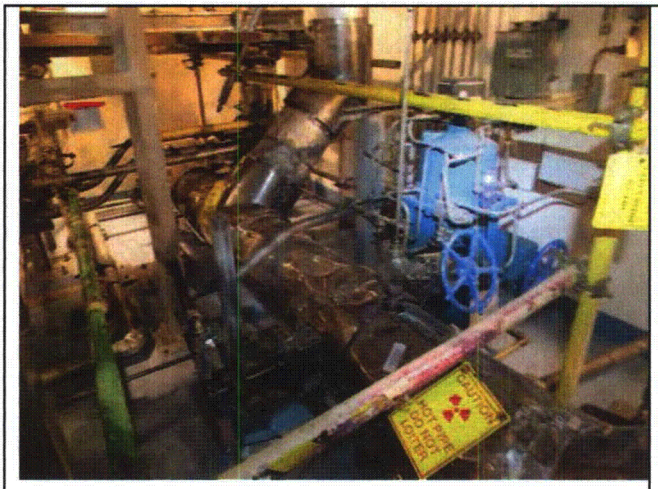
Seismic Walkdown Checklist (SWC) SWEL1-036

Equipment ID No. SI MVAAA129-B Equip. Class Pneumatic-Operated Valves

-OR- 2SI-FM348B

Equipment Description LPSI Pump B Discharge Flow Control (Control of Shutdown Cooling Flow)

Photographs



Note: LPSI Pump B Discharge Flow Control

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-037

Equipment ID No. SI MVAAA307-A Equip. Class[1] Pneumatic-Operated Valves

-OR- 2SI-F1564TK1A

Equipment Description Safety Injection Tank 1A Fill/Drain

Location: Bldg. RCB Floor El. +35 Room, Area Room 421, Col. 17

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Company, Inc., DBQ

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

See Attachment K - Revision 1

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. SI MVAAA307-A Equip. Class Pneumatic-Operated Valves

-OR- 2SI-F1564TK1A

Equipment Description Safety Injection Tank 1A Fill/Drain

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

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

Interaction Effects

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

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

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

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

See Attachment K - Revision 1

Sheet 3 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. SI MVAAA307-A Equip. Class Pneumatic-Operated Valves

-OR- 2SI-F1564TK1A

Equipment Description Safety Injection Tank 1A Fill/Drain

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

_____ _____

See Attachment K - Revision 1

Sheet 4 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. SI MVAAA307-A Equip. Class Pneumatic-Operated Valves

-OR- 2SI-F1564TK1A

Equipment Description Safety Injection Tank 1A Fill/Drain

Photographs

Note:	**Note:**

See Attachment K - Revision 1

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-038

Equipment ID No. SI MVAAA405-B Equip. Class[1] Pneumatic-Operated Valves

-OR- 1SI-V1501B

Equipment Description RC Loop 1 SDC Suction Inside Containment Isolation

Location: Bldg. RCB Floor El. +21 Room, Area Room 421, Col. 17

Manufacturer, Model, Etc. (optional but recommended) Lunkenheimer/Condec, 2490X47

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

See Attachment K - Revision 1

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. SI MVAAA405-B Equip. Class Pneumatic-Operated Valves

-OR- 1SI-V1501B

Equipment Description RC Loop 1 SDC Suction Inside Containment Isolation

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

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

Interaction Effects

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

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

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

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

See Attachment K - Revision 1

Sheet 3 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. SI MVAAA405-B Equip. Class Pneumatic-Operated Valves

-OR- 1SI-V1501B

Equipment Description RC Loop 1 SDC Suction Inside Containment Isolation

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

_____ _____

See Attachment K - Revision 1

Sheet 4 of 4

Status: Y☐ N☒ U☐

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

Equipment ID No. SI MVAAA405-B Equip. Class Pneumatic-Operated Valves

-OR- 1SI-V1501B

Equipment Description RC Loop 1 SDC Suction Inside Containment Isolation

Photographs

Note:	**Note:**

See Attachment K - Revision 1

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-039

Equipment ID No. SVSMVAAA201-B Equip. Class[1] Pneumatic-Operated Valves

-OR- D-50(SB)

Equipment Description AH-30 SB Inlet Damper D-50(SB)

Location: Bldg. RAB Floor El. +7 Room, Area Col. 10A, Line K

Manufacturer, Model, Etc. (optional but recommended) American Warming & Ventilation, DAAP7402

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☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Bracket mounted to damper is in good condition.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on any anchorage.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - This component is not mounted to concrete.

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-039

Equipment ID No. SVSMVAAA201-B -OR- D-50(SB) Equip. Class Pneumatic-Operated Valves

Equipment Description AH-30 SB Inlet Damper D-50(SB)

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   - Item not one of the 50% of SWEL items requiring anchorage configuration verification
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - Questions 2 and 3 satisfied; no seismic concern

Interaction Effects

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-039**

Equipment ID No. SVSMVAAA201-B -OR- D-50(SB) Equip. Class Pneumatic-Operated Valves

Equipment Description AH-30 SB Inlet Damper D-50(SB)

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-015

Evaluated by: Dinesh Patel Date: 10/2/12

Brian Pace 10/2/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

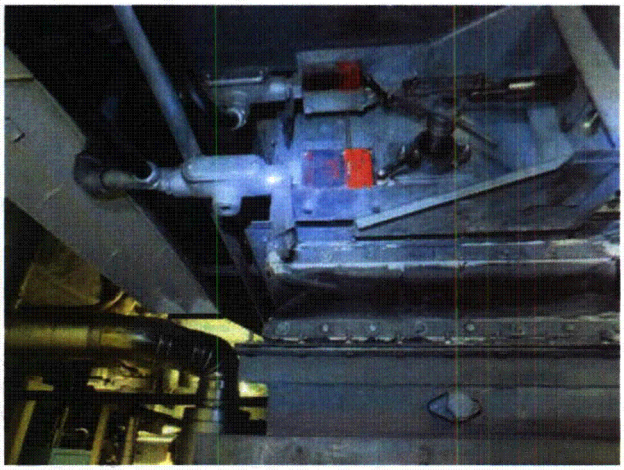
Seismic Walkdown Checklist (SWC) **SWEL1-039**

Equipment ID No. SVSMVAAA201-B -OR- D-50(SB)

Equip. Class Pneumatic-Operated Valves

Equipment Description AH-30 SB Inlet Damper D-50(SB)

Photographs



Note: AH-30 SB Inlet Damper D-50(SB)

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-040

Equipment ID No. BAMMVAAA113-A Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

-OR- 3CH-V106A

Equipment Description Boric Acid Makeup Tank A Gravity Feed Valve

Location: Bldg. RAB Floor El. -35 Room, Area Room B38, Col. 5A, Line H

Manufacturer, Model, Etc. (optional but recommended) William Powell Company, 1523-SS-WE-3"

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Valve hardware accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on valves hardware

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-040

Equipment ID No. BAMMVAAA113-A Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 3CH-V106A

Equipment Description Boric Acid Makeup Tank A Gravity Feed Valve

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A; no seismic concerns

Interaction Effects

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

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

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Attached conduits are flexible

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-040

Equipment ID No. BAMMVAAA113-A Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 3CH-V106A

Equipment Description Boric Acid Makeup Tank A Gravity Feed 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)

- Oil leaking from actuator on to top of flange; no seismic concern. CR-WF3-2011-00023 and WR-222768 previously written to address this condition.
- For area walk-by checklist see AWC-005

Evaluated by: Dinesh Patel Date: 10/3/12

Brian Pace 10/3/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-040**

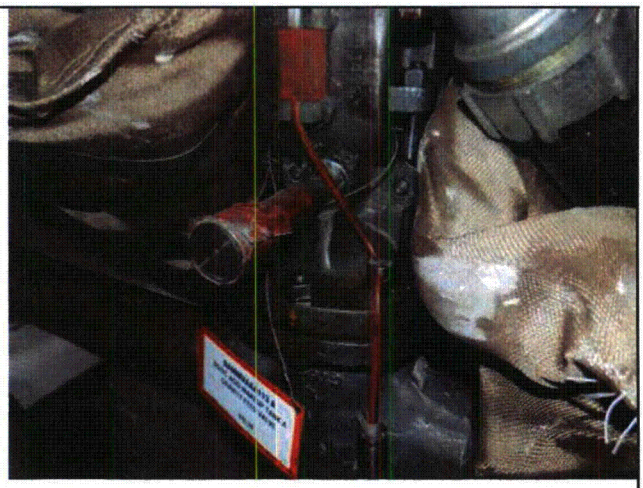
Equipment ID No. BAMMVAAA113-A -OR- 3CH-V106A

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description Boric Acid Makeup Tank A Gravity Feed Valve

Photographs

Note: Boric Acid Makeup Tank A Gravity Feed Valve



Note: Oil leaking from actuator on to top of flange

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-041

Equipment ID No. CARMVAAA204-A -OR- 2HV-B167A

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CAR EXHAUST HEADER A DISCHARGE

Location: Bldg. RAB Floor El. +46 Room, Area 299, COL 5A, LINE L

Manufacturer, Model, Etc. (optional but recommended) FISHER CONTROLS CO INC, 9220-4IN

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Mild corrosion on valve hardware; no seismic concern

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-041**

Equipment ID No. CARMVAAA204-A -OR- 2HV-B167A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CAR EXHAUST HEADER A DISCHARGE

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-041**

Equipment ID No. CARMVAAA204-A -OR- 2HV-B167A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CAR EXHAUST HEADER A DISCHARGE

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-037

Evaluated by: Natalie George Natalie George Date: 10/10/12

Chu-Chieh Lin Chu-Chieh Lin 10/10/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-041

Equipment ID No. CARMVAAA204-A

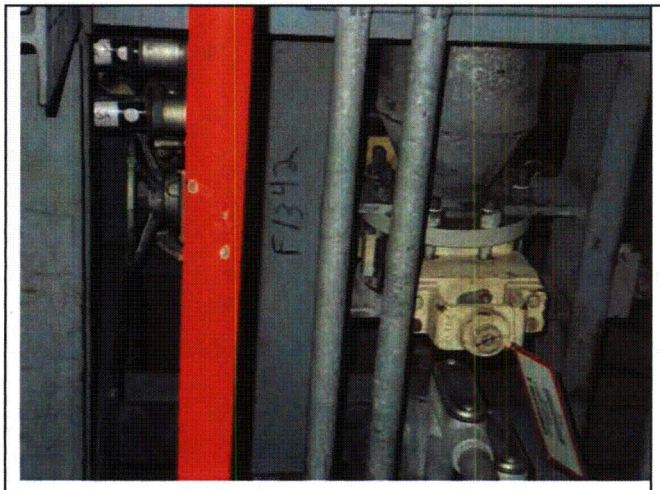
-OR-

2HV-B167A

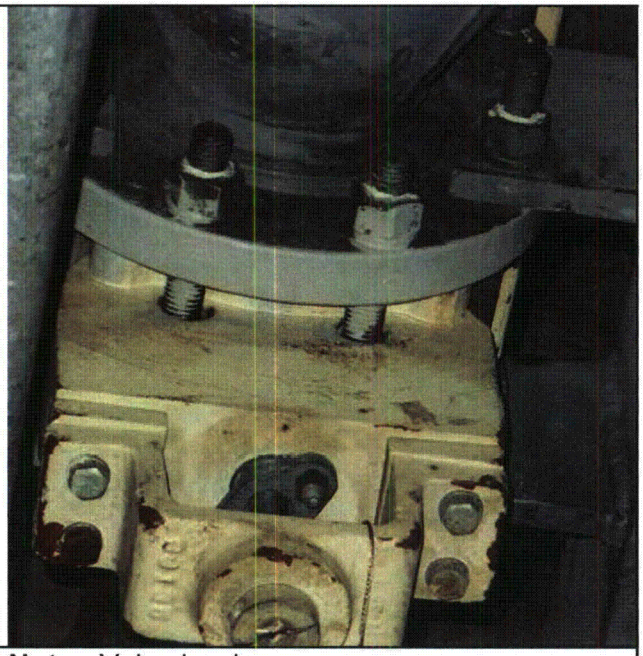
Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description CAR EXHAUST HEADER A DISCHARGE

Photographs



Note: CAR Exhaust Header A Discharge



Note: Valve hardware

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-042

Equipment ID No. CHWMVAAA900 -OR- 3AC-TM189B

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SWGR MAIN SVSMAHU0001-B CHW OUTLET FCV

Location: Bldg. RAB Floor El. +46 Room, Area 323, COL 12A, LINE J

Manufacturer, Model, Etc. (optional but recommended) MASONEILAN INTL INC, 5O20721

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☒
   - This is an in-line component.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - This is an in-line component.
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - This is an in-line component.
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - This is an in-line component.

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-042

Equipment ID No. CHWMVAAA900 -OR- 3AC-TM189B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SWGR MAIN SVSMAHU0001-B CHW OUTLET FCV

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - This is an in-line component, N/A.

Interaction Effects

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

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   - Overhead lights are uncovered. Fixtures are properly braced, and falling bulbs are determined to not have any adverse effect on equipment.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Two flexible lines are attached.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 satisfied.

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-042**

Equipment ID No. CHWMVAAA900 -OR- 3AC-TM189B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SWGR MAIN SVSMAHU0001-B CHW OUTLET FCV

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- There is an oil leak on the valve, but it is already addressed by WO#273364 and CR#11-2303; no seismic concern
- For area walk-by checklist see AWC-039

Evaluated by: Dinesh Patel Date: 10-09-2012

Brian Pace 10-09-2012

Sheet 4 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-042**

Equipment ID No. CHWMVAAA900

-OR-

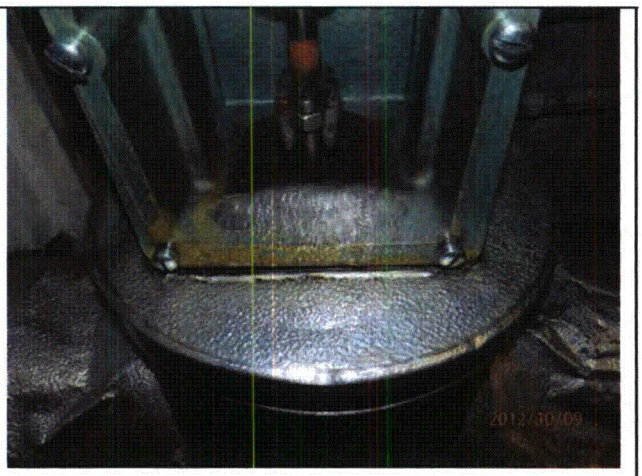
3AC-TM189B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SWGR MAIN SVSMAHU0001-B CHW OUTLET FCV

Photographs

Note: CHWMVAAA900



Note: Oil leak. Address with WO and CR.

Sheet 5 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-042**

Equipment ID No. CHWMVAAA900

-OR-

3AC-TM189B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SWGR MAIN SVSMAHU0001-B CHW OUTLET FCV

Note: Flexible conduits attached.

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-043

Equipment ID No. EGAISV0411-B Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

-OR- 20FO-2

Equipment Description EG B EMERGENCY MODE FUEL CONTROL #2

Location: Bldg. RAB Floor El. +21 Room, Area Room 222, Col. 5A, Line J

Manufacturer, Model, Etc. (optional but recommended) ASCO – Automatic Switch Co., HT8302B25G

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - All hardware is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion on anchorage

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - Supported on a bracket on top of emergency diesel generator

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-043

Equipment ID No. EGAISV0411-B -OR- 20FO-2 Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description EG B EMERGENCY MODE FUEL CONTROL #2

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - No seismic concern

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-043**

Equipment ID No. EGAISV0411-B Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 20FO-2

Equipment Description EG B EMERGENCY MODE FUEL CONTROL #2

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-0025

Evaluated by: Dinesh Patel Date: 10/2/12

Natalie George 10/2/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

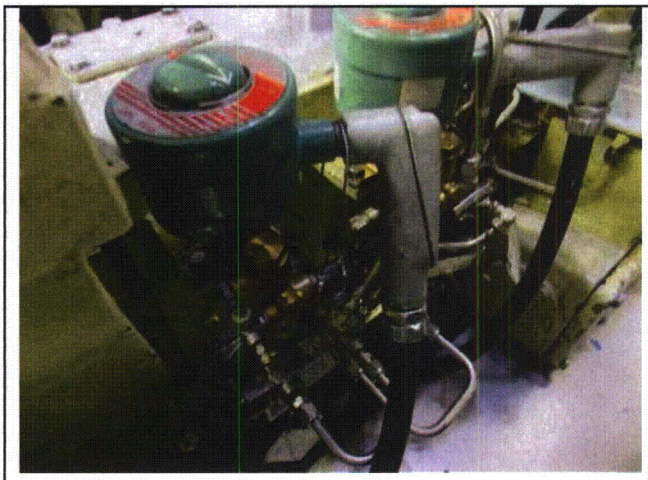
Seismic Walkdown Checklist (SWC) **SWEL1-043**

Equipment ID No. EGAISV0411-B -OR- 20FO-2

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description EG B EMERGENCY MODE FUEL CONTROL #2

Photographs



Note: EG B EMERGENCY MODE FUEL CONTROL #2, EGAISV0411-B

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-044

Equipment ID No. MS MVAAA120-A -OR- 2MS-V670 Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

Equipment Description MSIV 1 UPSTREAM DRIP POT NORMAL DRAIN

Location: Bldg. RB Floor El. +46 Room, Area ROOM R1 COL 3A LINE L

Manufacturer, Model, Etc. (optional but recommended) VELAN VALVE CORP, W08-2074X-02TN

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Valve flanges and bolts are covered by insulation
   - Valve is supported from floor; all support hardware is accounted for and in good condition
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Valve flanges and bolts are covered by insulation
   - Valve is supported from floor; all support hardware is free of corrosion
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   - Valve is supported from floor; no cracks in concrete surrounding support

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-044

Equipment ID No. MS MVAAA120-A -OR- 2MS-V670

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description MSIV 1 UPSTREAM DRIP POT NORMAL DRAIN

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - No seismic concerns

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-044**

Equipment ID No. MS MVAAA120-A -OR- 2MS-V670

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description MSIV 1 UPSTREAM DRIP POT NORMAL DRAIN

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- Mild corrosion; no seismic concern. CR-WF3-2012-05230 and WR-287250 initiated to address this condition.
- For area walk-by checklist see AWC-042

Evaluated by: Natalie George Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-044**

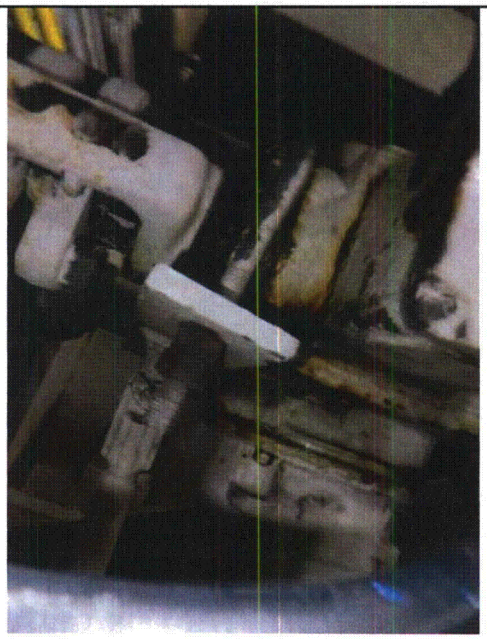
Equipment ID No. MS MVAAA120-A
-OR- 2MS-V670

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description MSIV 1 UPSTREAM DRIP POT NORMAL DRAIN

Photographs

Note: MSIV 1 upstream drip pot normal drain



Note: Mild corrosion

Sheet 1 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-045

Equipment ID No. MS MVAAA401-A -OR- 2MS-V611A

Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

Equipment Description EFW PUMP AB TURBINE STEAM SUPPLY FROM S/G 1

Location: Bldg. RB Floor El. +46 Room, Area ROOM 300 COL 3A LINE M

Manufacturer, Model, Etc. (optional but recommended) ANCHOR/DARLING VALVE CO, 447425

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-045

Equipment ID No. MS MVAAA401-A -OR- 2MS-V611A

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description EFW PUMP AB TURBINE STEAM SUPPLY FROM S/G 1

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 5

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-045**

Equipment ID No. MS MVAAA401-A Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 2MS-V611A

Equipment Description EFW PUMP AB TURBINE STEAM SUPPLY FROM S/G 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)

- Mild corrosion on valve; no seismic concern. CR-WF3-2012-05230 and WR-287251 initiated to address this condition.
- Jacketing separated, potential insulation damage; no seismic concern
- For area walk-by checklist see AWC-042

Evaluated by: Natalie George Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 5

Status: Y☒ N☐ U☐

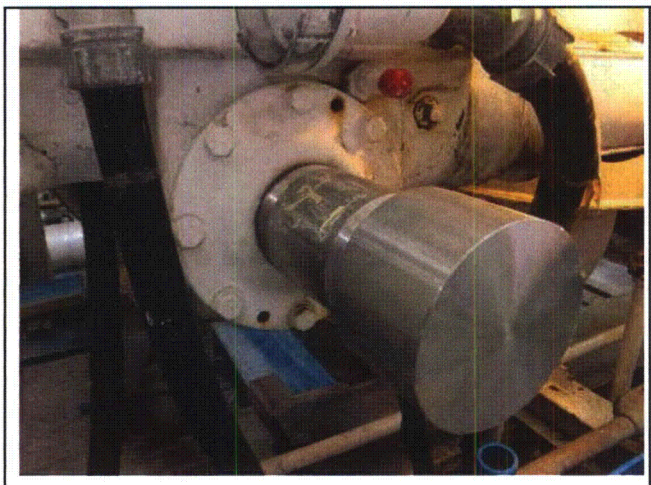
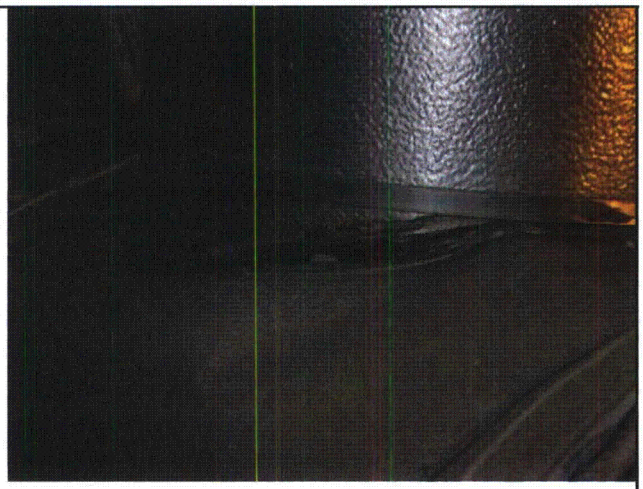
Seismic Walkdown Checklist (SWC) **SWEL1-045**

Equipment ID No. MS MVAAA401-A
-OR- 2MS-V611A

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description EFW PUMP AB TURBINE STEAM SUPPLY FROM S/G 1

Photographs

	
Note: Mild corrosion	**Note:** Jacketing separated

Sheet 5 of 5

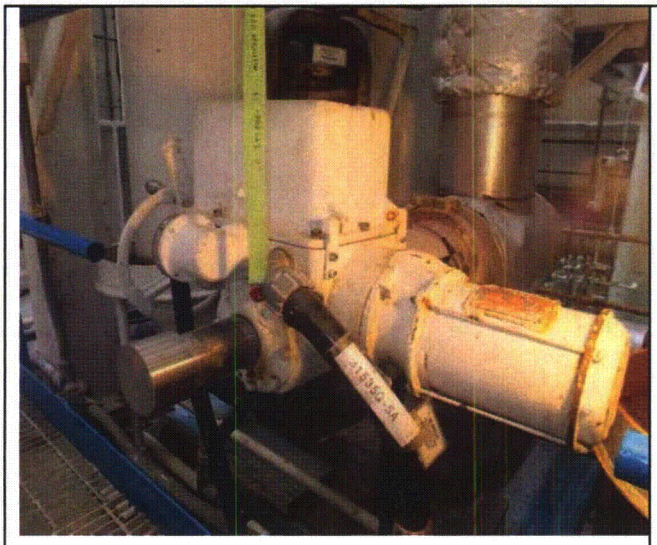
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-045**

Equipment ID No. MS MVAAA401-A -OR- 2MS-V611A

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description EFW PUMP AB TURBINE STEAM SUPPLY FROM S/G 1



Picture 3
Note: Valve MS MVAAA401

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-046

Equipment ID No. NG ISV0809 -OR- 3NG-E671-5

Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

Equipment Description NITROGEN ACCUMULATOR #5 OUTLET STOP

Location: Bldg. RB Floor El. +46 Room, Area ROOM R1 COL 2AZ LINE M

Manufacturer, Model, Etc. (optional but recommended) TARGET ROCK CORP, 81B-003

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Welds accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - No corrosion to welds

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-046**

Equipment ID No. NG ISV0809 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 3NG-E671-5

Equipment Description NITROGEN ACCUMULATOR #5 OUTLET STOP

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-046**

Equipment ID No. NG ISV0809 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 3NG-E671-5

Equipment Description NITROGEN ACCUMULATOR #5 OUTLET STOP

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- Mild corrosion; no seismic concern
- For area walk-by checklist see AWC-042

Evaluated by: Natalie George Natalie George Date: 10/5/12

Chu-Chieh Lin 10/5/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-046**

Equipment ID No. NG ISV0809

-OR- 3NG-E671-5

Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description NITROGEN ACCUMULATOR #5 OUTLET STOP

Photographs

Note: Nitrogen Accumulator #5

Note: Mild corrosion

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-047

Equipment ID No. RC ISV1014 Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2560B

Equipment Description Reactor Vessel Vent to Quench Tank Isolation

Location: Bldg. RCB Floor El. +46 Room, Area Room 421

Manufacturer, Model, Etc. (optional but recommended) Target Rock Corporation, 96Q-001

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

See Attachment K - Revision 1

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-047

Equipment ID No. RC ISV1014 Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2560B

Equipment Description Reactor Vessel Vent to Quench Tank Isolation

Location: Bldg. RCB Floor El. +46 Room, Area Room 421

Manufacturer, Model, Etc. (optional but recommended) Target Rock Corporation, 96Q-001

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

See Attachment K - Revision 1

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-047

Equipment ID No. RC ISV1014 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2560B

Equipment Description Reactor Vessel Vent to Quench Tank Isolation

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

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

Interaction Effects

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

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

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

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

See Attachment K - Revision 1

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-047**

Equipment ID No. RC ISV1014 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2560B

Equipment Description Reactor Vessel Vent to Quench Tank Isolation

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

_____ _____

See Attachment K - Revision 1

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-047**

Equipment ID No. RC ISV1014 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2560B

Equipment Description Reactor Vessel Vent to Quench Tank Isolation

Photographs

Note:	**Note:**

See Attachment K - Revision 1

Sheet 1 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-048

Equipment ID No. RC ISV3184 Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2557A

Equipment Description Pressurizer Vent to Quench Tank

Location: Bldg. RCB Floor El. +46 Room, Area Room 421

Manufacturer, Model, Etc. (optional but recommended) Target Rock Corporation, 96Q-001

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

See Attachment K - Revision 1

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) SWEL1-048

Equipment ID No. RC ISV3184 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2557A

Equipment Description Pressurizer Vent to Quench Tank

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

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

Interaction Effects

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

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

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

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

See Attachment K - Revision 1

Sheet 3 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-048**

Equipment ID No. RC ISV3184 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2557A

Equipment Description Pressurizer Vent to Quench Tank

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: _____ Date: _____

See Attachment K - Revision 1

Sheet 4 of 4

Status: Y☐ N☒ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-048**

Equipment ID No. RC ISV3184 Equip. Class Motor-Operated and Solenoid-Operated Valves

-OR- 2RC-E2557A

Equipment Description Pressurizer Vent to Quench Tank

Photographs

Note:	**Note:**

See Attachment K - Revision 1

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-049

Equipment ID No. SBVMVAAA110-A -OR- 2HV-B158A

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN A SUCTION ISOLATION

Location: Bldg. RAB Floor El. +46 Room, Area 299, COL 4A, LINE L

Manufacturer, Model, Etc. (optional but recommended) FISHER CONTROLS CO INC

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☒
   - This is an in-line component.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - This is an in-line component.
   - Valve hardware attaching valve to duct is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - This is an in-line component
   - No corrosion on any valve hardware

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒
   - This is an in-line component.

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-049

Equipment ID No. SBVMVAAA110-A -OR- 2HV-B158A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN A SUCTION ISOLATION

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - This is an in-line component (N/A)

Interaction Effects

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

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

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Several flexible conduits attached

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - Questions 7-9 are satisfied

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-049

Equipment ID No. SBVMVAAA110-A -OR- 2HV-B158A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN A SUCTION ISOLATION

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- See AWC-037 for Area Walk-By Checklist

Evaluated by: Dinesh Patel Date: 10-05-2012

Brian Pace 10-05-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

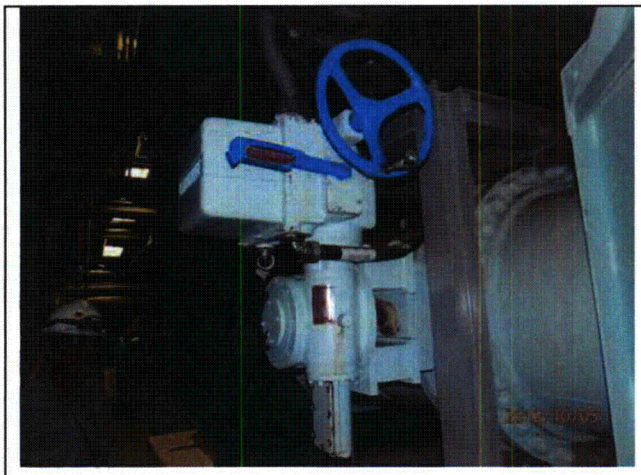
Seismic Walkdown Checklist (SWC) SWEL1-049

Equipment ID No. SBVMVAAA110-A
-OR-
2HV-B158A

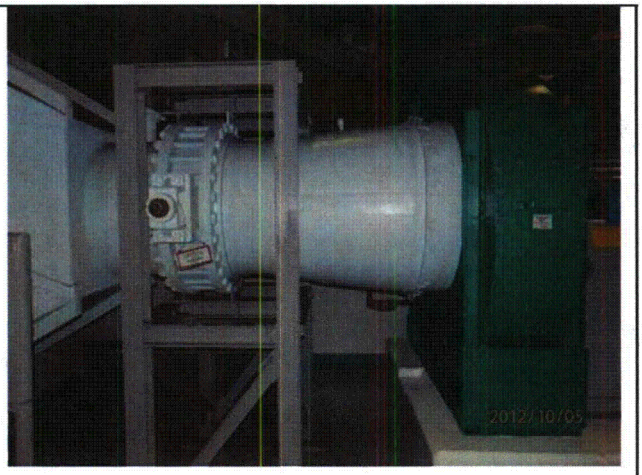
Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN A SUCTION ISOLATION

Photographs



Note: SBVMVAAA110-A



Note: Bolts connecting valve to duct in good condition

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-050

Equipment ID No. SBVMVAAA112-B -OR- 2HV-B183B

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN B RECIRC CHECK

Location: Bldg. RAB Floor El. +46 Room, Area 299, COL 6A, LINE L

Manufacturer, Model, Etc. (optional but recommended) GPE CONTROLS, F240341

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - All valve hardware is accounted for and in good condition

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is free of corrosion, painted

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-050

Equipment ID No. SBVMVAAA112-B -OR- 2HV-B183B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN B RECIRC CHECK

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-050

Equipment ID No. SBVMVAAA112-B -OR- 2HV-B183B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN B RECIRC CHECK

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-037

Evaluated by: Natalie George Natalie George Date: 10/15/12

Chu-Chieh Lin 10/15/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-050**

Equipment ID No. SBVMVAAA112-B
-OR-
2HV-B183B

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description SBV EXHAUST FAN B RECIRC CHECK

Photographs

Note: SBV Exhaust Fan B Recirc Check hardware

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-051

Equipment ID No. SI ISV1161-A Equip. Class[1] Motor-Operated and Solenoid Operated Valves

-OR- 2SI-E1587A

Equipment Description LPSI Pump A Minimum Flow Recirc

Location: Bldg. RAB Floor El. -35 Room, Area Room B15, Col. 8A, Line K

Manufacturer, Model, Etc. (optional but recommended) Target Rock Corp., 81B-005

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-051

Equipment ID No. SI ISV1161-A Equip. Class Motor-Operated and Solenoid Operated Valves

-OR- 2SI-E1587A

Equipment Description LPSI Pump A Minimum Flow Recirc

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-051

Equipment ID No. SI ISV1161-A Equip. Class Motor-Operated and Solenoid Operated Valves

-OR- 2SI-E1587A

Equipment Description LPSI Pump A Minimum Flow Recirc

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-002

Evaluated by: Dinesh Patel Date: 10/3/12

Brian Pace 10/3/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

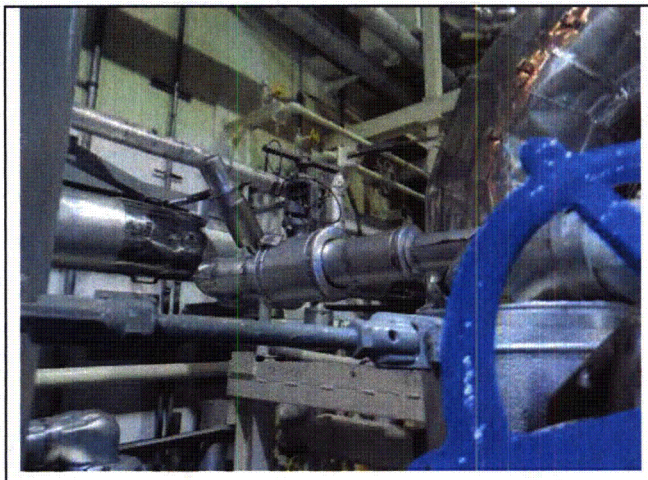
Seismic Walkdown Checklist (SWC) **SWEL1-051**

Equipment ID No. SI ISV1161-A Equip. Class Motor-Operated and Solenoid Operated Valves

-OR- 2SI-E1587A

Equipment Description LPSI Pump A Minimum Flow Recirc

Photographs



Note: LPSI Pump A Minimum Flow Recirc

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-052

Equipment ID No. SI MVAAA121-A -OR- 2SI-V809A

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description DOWNSTREAM ISOLATION

Location: Bldg. RB Floor El. -35 Room, Area B53, COL 8A, LINE LZ

Manufacturer, Model, Etc. (optional but recommended) ANCHOR/DARLING VALVE CO, 38583

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-052

Equipment ID No. SI MVAAA121-A -OR- 2SI-V809A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description DOWNSTREAM ISOLATION

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-052

Equipment ID No. SI MVAAA121-A
-OR-
2SI-V809A

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description DOWNSTREAM ISOLATION

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- *Oil at base of valve; no seismic concern*
- For Area Walk-by Checklist refer to AWC-028

Evaluated by: Natalie George Natalie George Date: 10/4/12

Chu-Chieh Lin 10/4/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

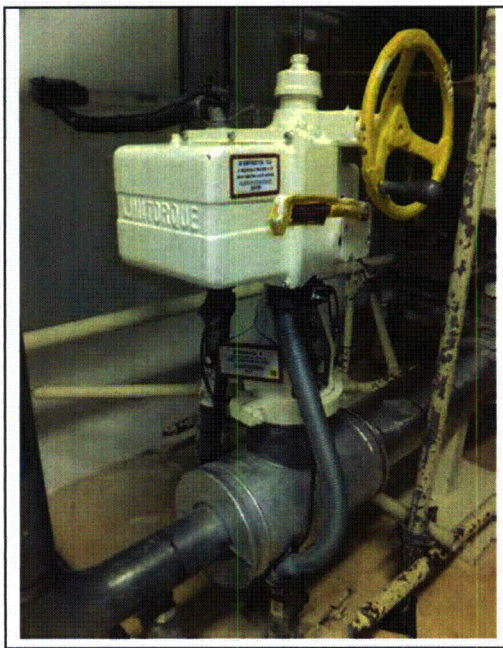
Seismic Walkdown Checklist (SWC) SWEL1-052

Equipment ID No. SI MVAAA121-A
-OR-
2SI-V809A

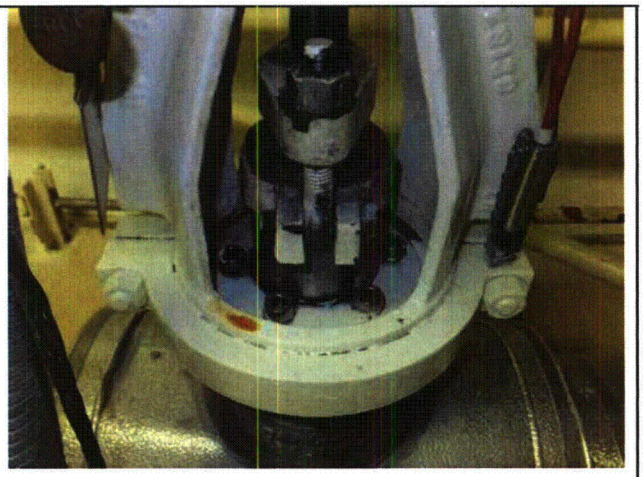
Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description DOWNSTREAM ISOLATION

Photographs



Note: Downstream isolation SI MVAAA121-A



Note: Oil at base of valve

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-053

Equipment ID No. SI MVAAA138-B -OR- 2SI-V1539B3

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description LPSI HEADER TO RC LOOP 1B FLOW CONTROL

Location: Bldg. RB Floor El. -35 Room, Area B53, COL 3A, LINE N

Manufacturer, Model, Etc. (optional but recommended) TARGET ROCK CORP, 71L-006

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☒
   - In-line component.

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-053

Equipment ID No. SI MVAAA138-B -OR- 2SI-V1539B3

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description LPSI HEADER TO RC LOOP 1B FLOW CONTROL

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Attached conduit is flexible.

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-053**

Equipment ID No. SI MVAAA138-B
-OR-
2SI-V1539B3

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description LPSI HEADER TO RC LOOP 1B FLOW CONTROL

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-028

Evaluated by: Brian Pace Date: 10-15-2012

Dinesh Patel 10-15-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

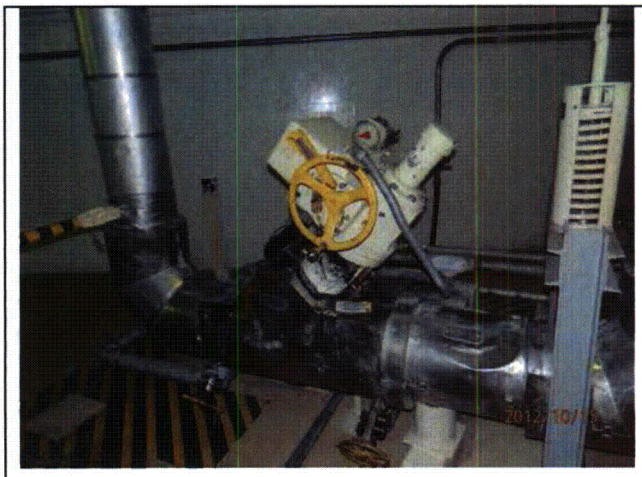
Seismic Walkdown Checklist (SWC) SWEL1-053

Equipment ID No. SI MVAAA138-B
-OR-
2SI-V1539B3

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description LPSI HEADER TO RC LOOP 1B FLOW CONTROL

Photographs



Note: Valve SI MVAAA138-B

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-054

Equipment ID No. SI MVAAA219-A -OR- 2SI-V1534

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI DISCHARGE HEADER A ORIFICE BYPASS

Location: Bldg. RB Floor El. -35 Room, Area B53, COL 6A, LINE LY

Manufacturer, Model, Etc. (optional but recommended) ANCHOR/DARLING VALVE CO, 38553

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-054

Equipment ID No. SI MVAAA219-A -OR- 2SI-V1534

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI DISCHARGE HEADER A ORIFICE BYPASS

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-054

Equipment ID No. SI MVAAA219-A -OR- 2SI-V1534

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI DISCHARGE HEADER A ORIFICE BYPASS

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- Mild surface corrosion on valve; no seismic concern
- For Area Walk-by Checklist refer to AWC-028

Evaluated by: Dinesh Patel Date: 10/4/12

Brian Pace 10/4/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-054

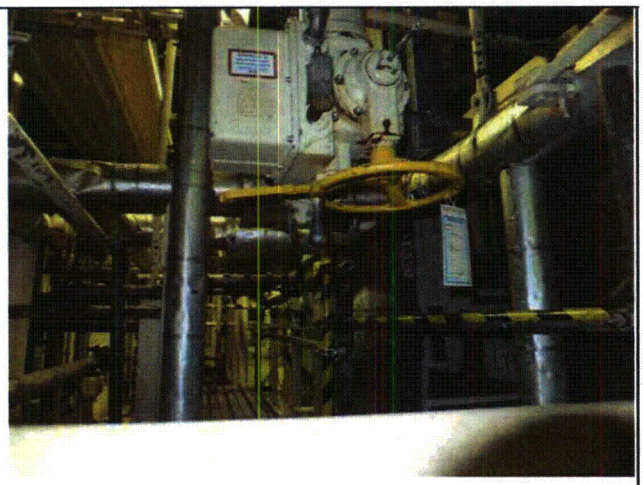
Equipment ID No. SI MVAAA219-A
-OR-
2SI-V1534

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI DISCHARGE HEADER A ORIFICE BYPASS

Photographs

Note: HPSI discharge header A orifice bypass SI MVAAA219-A



Note: Mild surface corrosion on valve

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-055

Equipment ID No. SI MVAAA227-B -OR- 2SI-V1547B3

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI HDR B TO RC LOOP 2A FLOW CONTROL

Location: Bldg. RB Floor El. -35 Room, Area B53, COL 9A, LINE L

Manufacturer, Model, Etc. (optional but recommended) TARGET ROCK CORP, 71L-002-1

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3).

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3).

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-055**

Equipment ID No. SI MVAAA227-B -OR- 2SI-V1547B3

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI HDR B TO RC LOOP 2A FLOW CONTROL

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A.

Interaction Effects

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

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

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   - Several attached conduits have sufficient flexibility.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    - See questions 7-9.

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-055**

Equipment ID No. SI MVAAA227-B -OR- 2SI-V1547B3

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI HDR B TO RC LOOP 2A FLOW CONTROL

Other Adverse Conditions

11. Have you looked for and found no 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 has minor surface corrosion. No seismic concern. CR-WF3-2012-05275 and WR-287631 initiated to address this condition.
- For area walk-by checklist see AWC-0028

Evaluated by: Dinesh Patel Date: 10-15-2012

Brian Pace 10-15-2012

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-055**

Equipment ID No. SI MVAAA227-B

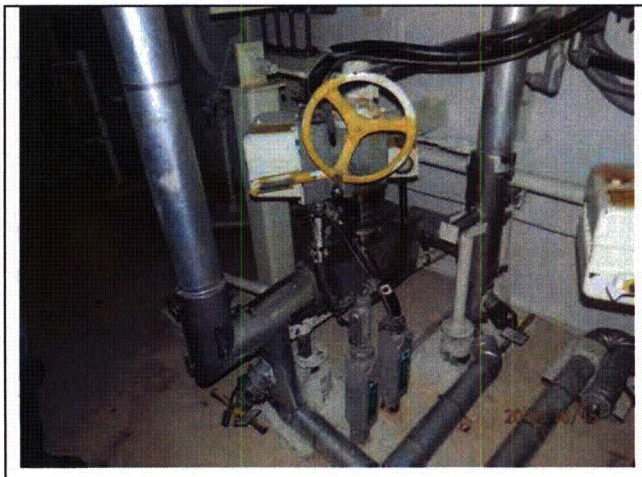
-OR-

2SI-V1547B3

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description HPSI HDR B TO RC LOOP 2A FLOW CONTROL

Photographs



Note: Valve SI MVAAA227-B

Note: Mild surface corrosion on valve

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-056

Equipment ID No. SI MVAAA415-B Equip. Class[1] Motor-Operated and Solenoid-Operated Valves

Equipment Description Shutdown Cooling HX B Temperature Control

Location: Bldg. RAB Floor El. -35 Room, Area Room B20, Col. 10A, Line K

Manufacturer, Model, Etc. (optional but recommended) Fisher Controls Company, 10"-300lb Butterfly Valve with Actuator

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - In-line component
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-056

Equipment ID No. SI MVAAA415-B Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description Shutdown Cooling HX B Temperature Control

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-056**

Equipment ID No. SI MVAAA415-B Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description Shutdown Cooling HX B Temperature Control

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For area walk-by checklist see AWC-004

Evaluated by: Dinesh Patel Date: 10/2/12

Natalie George 10/2/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) **SWEL1-056**

Equipment ID No. SI MVAAA415-B Equip. Class Motor-Operated and Solenoid-Operated Valves

Equipment Description Shutdown Cooling HX B Temperature Control

Photographs

Note: Shutdown Cooling HX B Temperature Control

Sheet 1 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-057

Equipment ID No. SI MVAAA502-A -OR- 2SI-V1557

Equip. Class[1] MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description RC LOOP 1 HOT LEG INJ ISOLATION

Location: Bldg. RB Floor El. -35 Room, Area B53, COL 6A, LINE LY

Manufacturer, Model, Etc. (optional but recommended) ANCHOR/DARLING VALVE CO, SMB0010

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☒
   - In-line component

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   - Valve hardware is covered by insulation. However, anchorage is acceptable based on Inservice Testing (Program Section No. SEP-WF3-IST-3)

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

[1] Enter the equipment class name from Appendix B: Classes of Equipment.

Sheet 2 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-057

Equipment ID No. SI MVAAA502-A -OR- 2SI-V1557

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description RC LOOP 1 HOT LEG INJ ISOLATION

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   - In-line component, N/A

Interaction Effects

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

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

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

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

Sheet 3 of 4

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-057

Equipment ID No. SI MVAAA502-A -OR- 2SI-V1557

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description RC LOOP 1 HOT LEG INJ ISOLATION

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

- For Area Walk-by Checklist refer to AWC-028

Evaluated by: Dinesh Patel Date: 10/4/12

Brian Pace 10/4/12

Sheet 4 of 4

Status: Y☒ N☐ U☐

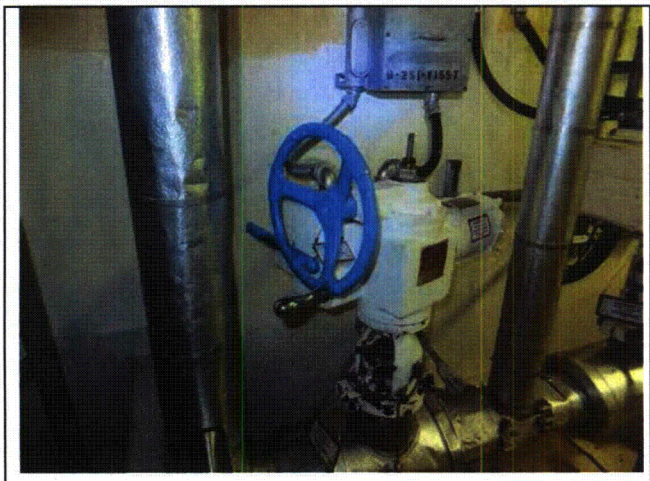
Seismic Walkdown Checklist (SWC) **SWEL1-057**

Equipment ID No. SI MVAAA502-A
-OR-
2SI-V1557

Equip. Class MOTOR-OPERATED AND SOLENOID-OPERATED VALVES

Equipment Description RC LOOP 1 HOT LEG INJ ISOLATION

Photographs



Note: RC loop 1 hot leg injection isolation
SI MVAAA502-A