



Prairie Island Nuclear Generating Plant
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NOV 26 2012

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10 CFR 50.54(f)

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
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Prairie Island Nuclear Generating Plant
Docket No. 50-282
Renewed Facility Operating License No. DPR-42

PINGP Unit 1 - Final Response to NRC Request for Information Pursuant to 10 CFR 50.54(f) Regarding the Seismic Aspects of Recommendation 2.3 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident

- References:
1. NRC Letter, "Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3, of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident," dated March 12, 2012, ADAMS Accession No. ML12053A340.
 2. NRC Letter, "Endorsement of Electric Power Research Institute (EPRI) Draft Report 1025286, 'Seismic Walkdown Guidance,'" dated May 31, 2012, ADAMS Accession No. ML12145A529.
 3. NSPM Letter to NRC, "Prairie Island Nuclear Generating Plant's 120-Day Response to NRC Request for Information Pursuant to 10 CFR 50.54(f) Regarding the Seismic Aspects of Recommendations 2.3 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident," dated July 9, 2012, ADAMS Accession No. ML12192A207.

On March 12, 2012, the Nuclear Regulatory Commission (NRC) Staff issued a request for information regarding Near-Term Task Force (NTTF) insights from the Fukushima Dai-ichi accident, to all NRC power reactor licensees and holders of construction permits in active or deferred status (Reference 1). Enclosure 3 of the March 12, 2012 letter contains specific Requested Actions, Requested Information, and Required

ADD!
NRK

Responses associated with NTTF Recommendation 2.3, Seismic. This letter provides the required final response to the Requested Information for NTTF Recommendation 2.3, Seismic, from the Northern States Power Company, a Minnesota corporation (NSPM), d/b/a Xcel Energy, for Prairie Island Nuclear Generating Plant (PINGP), Unit 1.

In a letter to the NRC dated July 9, 2012 (Reference 3), NSPM confirmed that it would use EPRI Report 1025286, "Seismic Walkdown Guidance For Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic," endorsed by the NRC in Reference 2, as the basis for seismic walkdowns at the PINGP. These walkdowns were performed to verify current plant configuration with the current licensing basis; verify the adequacy of current strategies and maintenance plans; and identify degraded, nonconforming, or unanalyzed conditions.

The enclosure to this letter provides the Requested Information in response to NTTF Recommendation 2.3, Seismic, and includes the results of the seismic walkdowns for PINGP Unit 1. This enclosure contains Sensitive Unclassified Non-Safeguards Information (SUNSI) of which the loss, issue, modification, or unauthorized access can reasonably be foreseen to harm the public interest, or the commercial or financial interests of NSPM. NSPM requests that this proprietary information be withheld under 10 CFR 2.390(d)(1). A redacted version of the information enclosed in this letter will be provided in a separate letter for public disclosure.

If there are any questions, or if additional information is needed, please contact Ms. Jennie Eckholt, Licensing Engineer, at 612-330-5788.

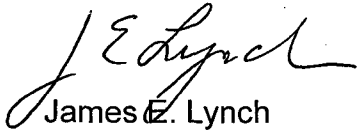
Summary of Commitments

This letter makes the following new commitments and makes no revisions to existing commitments.

Regulatory Commitments	Due Date
NSPM will complete the Seismic Walkdowns of the inaccessible components listed in Appendix D, "Plan for Future Seismic Walkdown of Inaccessible Equipment," of the enclosure.	Refueling Outage (RFO) 1R30
NSPM will provide an updated seismic walkdown report with the results of the walkdowns of the inaccessible components.	60 days following the end of RFO 1R30

I declare under penalty of perjury that the foregoing is true and correct.

Executed on **NOV 26 2012**



James E. Lynch
Site Vice President, Prairie Island Nuclear Generating Plant
Northern States Power Company - Minnesota

Enclosure

cc: Administrator, Region III, USNRC
Director of Nuclear Reactor Regulation (NRR), USNRC
NRR Project Manager, PINGP, USNRC
Senior Resident Inspector, PINGP, USNRC

ENCLOSURE

PRAIRIE ISLAND NUCLEAR GENERATING PLANT – UNIT 1

NTTF RECOMMENDATION 2.3 -

REDACTED SEISMIC WALKDOWN REPORT

(362 Pages Follow)

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Executive Summary

Following the accident at the Fukushima Dai-ichi nuclear power plant resulting from the March 11, 2011, Great Tohoku Earthquake and subsequent tsunami, the NRC established the Near-Term Task Force (NTTF) in response to Commission direction. The NTTF Charter, dated March 30, 2011, tasked the NTTF 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. Ultimately, a comprehensive set of recommendations contained in a report to the Commission (dated July 12, 2011, SECY-11-0093 (Agency-wide Documents Access and Management System (ADAMS) Accession No. ML111861807)) was developed.

On August 19, 2011, following issuance of the NTTF report, the Commission directed the NRC staff in a staff requirements memorandum (SRM) for SECY-11-0093 (ADAMS Accession No. ML 112310021), in part, to determine which of the recommendations could and should be implemented without unnecessary delay. On September 9, 2011, the NRC staff provided a document to the Commission (ADAMS Accession No. ML 11245A158) which identified those actions from the NTTF report that should be taken without unnecessary delay.

On March 12, 2012, the NRC issued a 10 CFR 50.54(f) letter that requested information to assure that these recommendations are addressed by all U.S. nuclear power plants (Reference 6). Every U.S. nuclear power plant is required to perform seismic walkdowns to identify and address degraded, non-conforming or unanalyzed conditions as well as to verify the current plant configuration with the current seismic licensing basis. This report documents the seismic walkdowns performed at the Prairie Island Nuclear Generating Plant (PINGP) as required to address, in part, the 10 CFR 50.54(f) information request issued by the NRC.

The Nuclear Energy Institute (NEI) cooperated with the NRC to prepare guidance for conducting seismic walkdowns as requested in Enclosure 3 of Reference 6, titled, Recommendation 2.3: Seismic. The guidelines and procedures prepared by NEI and endorsed by the NRC were published through the Electric Power Research Institute (EPRI) as EPRI Technical Report 1025286, Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic, dated June 2012 (Reference 1). The Northern States Power Company, a Minnesota corporation (NSPM), d/b/a Xcel Energy, confirmed that the EPRI seismic walkdown guidance would be used as the basis for conducting the seismic walkdowns and developing the needed information at PINGP in a letter dated July 9, 2012 (Reference 10).

The EPRI Seismic Walkdown Guidance was used for the engineering walkdowns and evaluations described in this report. In accordance with the EPRI Seismic Walkdown Guidance, the following topics are addressed in the subsequent sections of this report:

- Seismic Licensing Basis
- Personnel Qualifications
- Selection of Systems, Structures , and Components (SSC)
- Seismic Walkdowns and Area Walk-Bys
- Licensing Basis Evaluations
- IPEEE Vulnerabilities Resolution Report
- Peer Reviews

This report documents any discrepancies or potential seismic issues identified as a result of the seismic walkdowns completed at PINGP. No adverse seismic conditions were identified at PINGP. Corrective Action Program Action Requests (CAPs) were entered into the site's 10 CFR 50 Appendix B qualified corrective action program. The disposition of all potentially adverse observations noted during the seismic walkdowns is documented in Appendix F of this report.

The Seismic Walkdowns identified several minor issues predominantly pertaining to seismic housekeeping and potential seismic interactions associated with overhead lighting fixtures. The Seismic Walkdowns identified no degraded, nonconforming, or unanalyzed conditions that required either immediate or follow-on action(s). No planned or newly identified protection or mitigation features have resulted from the efforts to address the NRC 10 CFR 50.54(f) letter.

Follow-on activities required to complete the efforts to address Enclosure 3 of the NRC 10 CFR 50.54(f) letter include inspection of 29 items deferred due to inaccessibility or internal cabinet inspections. Area Walk-Bys will be completed, as required, during these follow-on activities.

1

Introduction

1.1 BACKGROUND

In response to Near-Term Task Force (NTTF) Recommendation 2.3, the Nuclear Regulatory Commission (NRC) issued a 10 CFR 50.54(f) letter on March 12, 2012 requesting that all licensees perform seismic walkdowns to identify and address plant-specific degraded, nonconforming, or unanalyzed conditions (through the corrective action program), verify the adequacy of monitoring and maintenance for protective features, and inform the NRC staff of the results of the walkdowns and corrective actions taken or planned. The Nuclear Energy Institute (NEI), with the Electric Power Research Institute (EPRI), prepared industry guidance to assist licensees in responding to this NRC request. The industry guidance document, EPRI Technical Report 1025286, Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic, dated June 2012 (Reference 1), was endorsed by the NRC on May 31, 2012 (Reference 8). NSPM confirmed that the EPRI seismic walkdown guidance would be used as the basis for conducting the seismic walkdowns and gathering the requested information at PINGP in a letter dated July 9, 2012 (Reference 10).

1.2 PLANT OVERVIEW

PINGP, Units 1 and 2, are both 2-loop pressurized water reactors owned by NSPM. Westinghouse Electric Corporation designed and supplied the nuclear steam supply systems, initial reactor fuel, and the turbine-generator units. Pioneer Service and Engineering Company (PS&E) was the plant's architect-engineer. Northern States Power was the constructor.

The containment for each unit was designed by PS&E and consists of two systems:

- A primary containment consisting of a free-standing low-leakage steel vessel, including its penetrations, isolation systems and heat removal systems.
- A secondary medium leakage concrete shield building surrounding the primary containment, including special ventilation systems for its annulus and adjacent auxiliary building.

1.3 APPROACH

The EPRI Seismic Walkdown Guidance (Reference 1) is used for PINGP Unit 1 engineering walkdowns and evaluations described in this report. In accordance with Reference 1, the following topics are addressed in the subsequent sections of this report:

- Seismic Licensing Basis (Section 2)
- Personnel Qualifications (Section 3)
- Selection of SSCs (Section 4)
- Seismic Walkdowns and Area Walk-Bys (Section 5)
- Licensing Basis Evaluations (Section 6)
- IPEEE Vulnerabilities Resolution Report (Section 7)
- Peer Review (Section 8)

2

Seismic Licensing Basis

2.1 OVERVIEW

This section of the report summarizes the seismic licensing basis for PINGP Unit 1 and Unit 2. The safe shutdown earthquake and a summary of the codes, standards, and methods used in the design of Seismic Category I structures, systems, and components (SSCs) are presented. This section does not establish or change the seismic licensing basis of the facility and is intended to provide a fundamental understanding of the seismic licensing basis of the facility.

2.2 DESIGN BASIS EARTHQUAKE (DBE)

The design basis earthquake (DBE) is based upon a maximum horizontal ground acceleration of 0.12g and the associated response spectra are given in Plate 4.6, Appendix E of Reference 2. The DBE is synonymous with the Safe Shutdown Earthquake (SSE) (Reference 2, Section 12.2.1.3.5).

2.3 DESIGN OF SEISMIC CATEGORY I SSCs

A full description of the SSE along with the codes, standards, and methods used in the design of the Seismic Category I SSCs for meeting the seismic licensing basis requirements is provided in the following PINGP Updated Safety Analysis Report (USAR) (Reference 2) sections:

- USAR Section 12.2.1.1, *Classification of Structures and Components*
- USAR Section 12.2.1.3.5, *Seismic Loads*
- USAR Section 12.2.1.4, *General Design Criteria for Structures*
- USAR Section 12.2.1.4.3, *Structural Design Basis*
- USAR Section 12.2.1.5, *Seismic Analysis of Mechanical and Electrical Equipment*

These USAR sections should be referred to for a detailed understanding of the seismic licensing basis.

2.3.1 Summary of Seismic Design

The site Operating Basis Earthquake (OBE) and DBE ground response spectra are shown in Plates 4.5 and 4.6, respectively, in Appendix E of the PINGP USAR (Reference 2). The equivalent multi-mass mathematical model was constructed to approximate the structural system. The effect of the foundation soils is included in the model by means of equivalent springs. The spectral method was used to determine the maximum response of each mass point for each mode, using the OBE (Reference 2, Plate 4.5 in Appendix E) and damping values given in USAR Table 12.2-8 of Reference 2 as input. The total response for each point was determined by the root-mean-square (RMS) method. From this, a set of curves were developed showing the maximum translational accelerations, displacements, shears, and moments as varying with height.

The maximum horizontal and vertical ground accelerations at the ground level are 0.12g for the DBE (SSE) and 0.06g for OBE (Plates 4.5 & 4.6, Appendix E – Reference 2). These OBE and DBE ground response spectra were plotted at 0.5%, 2% and 5% damping (Reference 2, Plates 4.5 and 4.6 of Appendix E). The vertical ground acceleration is equal to two-thirds of the horizontal ground acceleration (Reference 2, Section 12.2.1.4.3.1.1).

2.3.2 Methods for Qualifying Electrical and Mechanical Equipment and Instrumentation

Equipment and instrumentation are qualified using one or more of the following methods:

1. Qualification by analysis,
2. Qualification by test, or
3. Qualification by combination of analysis and test.

Equipment is qualified by analysis if the equipment is not too complex and can be represented in a mathematical model for performing static analysis and/or dynamic analysis.

1. Qualification by Analysis

Static Analysis

Static analysis is performed for an equipment item determined to be rigid. The seismic forces on each component of the equipment are obtained by concentrating the total mass at the equipment's center of gravity and multiplying the values of the mass and the appropriate floor acceleration from the seismic response spectra. The resulting forces are converted to stresses and are added to the other equipment stresses, as per the design criteria, to determine if the equipment is adequate to withstand the required load.

Dynamic Analysis

Dynamic analysis is performed for flexible equipment items. The equipment is analyzed using a response spectrum or time-history analysis. Both of these methods have been used to qualify equipment for PINGP.

2. Qualification by Test

If the equipment is flexible and too complex to be represented properly by an analytical model, then the equipment is qualified by test. Testing is also performed where the equipment is required to operate during or after a seismic event for which this cannot be established analytically. Seismic tests are performed by subjecting the equipment to vibratory motion which conservatively simulates the motion at the equipment mounting location during an (or several) OBE(s), followed by the vibratory motion associated with an SSE.

3. Qualification by Combination of Test and Analysis

Some electrical equipment and instrumentation are qualified by a combination of test and analysis. This qualification can be achieved through various methods such as extrapolation from similar equipment or similar seismic conditions.

2.3.3 Summary of Codes and Standards

This section summarizes the codes, specifications, standards of practice, and other accepted industry guidelines to the extent applicable in the design and construction of the following:

- Containment - the applicable codes, standards, and specifications for the containment are 1 through 23 in Table 2-1 below.
- Containment Internal Structures – all of the items listed in Table 2-1 below are applicable for the containment internal structures.
- Safety-Related Structures Outside of Containment - all of the items listed in Table 2-1 below are applicable, with the exception of Items 17 and 18.
- Foundations for Seismic Category I Structures - the applicable codes, standards, and specifications are 1 through 14 and 19 through 23 in Table 2-1 below.

Table 2-1: List of Codes, Standards, and Specifications		
Specification Reference Number	Specification or Standard Designation	Title
1	American Concrete Institute (ACI) 318-71, 77, 83	Building Code Requirements for Reinforced Concrete (Reference 14)
2	ACI 301	Specifications for Structural Concrete for Buildings (Reference 15)
3	ACI 347	Recommended Practice for ANSI A145.1 Concrete Formwork (Reference 16)
4	ACI 305	Recommended Practice for Hot ANSI A170.1 Weather Concreting (Reference 17)
5	ACI 211.1	Recommended Practice for Selecting Proportions for Normal Weight Concrete (Reference 18)
6	ACI 304	Recommended Practice for Measuring, Mixing, Transporting, and placing concrete (Reference 19)
7	ACI 315	Manual of Standard Practice for Detailing Reinforced Concrete Structures (Reference 20)
8	ACI 306	Recommended Practice for Cold Weather Concreting (Reference 21)
9	ACI 309	Recommended Practice for Consolidation of Concrete (Reference 22)
10	ACI 308	Recommended Practice for Curing Concrete (Reference 23)
11	ACI 214	Recommended Practice for ANSI A146.1 Evaluation of Compression Test Results of Field (Reference 24)
12	ACI 311	Recommended Practice for Concrete Inspection (Reference 25)
13	ACI 304	Preplaced Aggregate Concrete for Structural and Mass Concrete (Reference 26)
14	Report by ACI Committee 304	Placing Concrete by Pumping Method (Reference 27)
15	AISC-69,78	Specification for the Design, Fabrication, and Erection of Structural Steel for Building (Reference 28)
16	AWS D1.1	Structural Welding Code (Reference 29)
17	ASME	Boiler & Pressure Vessel Code, Section III (Reference 30)
	ASME-1971, S73	Division 1, Subsection NE

Table 2-1: List of Codes, Standards, and Specifications		
Specification Reference Number	Specification or Standard Designation	Title
	ASME-1974, S75	Division 1, Subsection NF
	ASME-1973	Division 2, Proposed Standard Code for Concrete Reactor Vessels and Containments Issued for Trial Use and Comments
	ASME-1980	Division 2, CC 6000
	ASME-1992	1992 Addenda, Division 1, Section XI, Subsection IWL, IWE
18	American Public Health Assoc. (APHA)	Test Methods Sulphides in Water, Standard Methods for the Examination of Water and Waste Water (Reference 31)
19	ASTM	Annual Books of ASTM Standards (Reference 32)
20	CRSI MSP-1	Manual of Standard Practice (Reference 33)
21	ANSI N45.2.5	Proposed Supplementary Q.A. Requirements for Installation, Inspection and Testing of Structural Concrete and Structural Steel During Construction Phase of Nuclear Power Plants (Reference 34)
22	CRD	Chief of Research and Development Standards, Department of the Army, Handbook for Concrete and Cement Volume I and II, Corps of Engineers U.S. Army (Reference 35)
23	ACI-349-76, 85	Code Requirements for Nuclear Safety Related Concrete Structures (Reference 36)
24	AISI	Specification for design of cold-formed steel structural members (Reference 37)

3

Personnel Qualifications

3.1 OVERVIEW

This section of the report identifies the personnel that participated in the NTTF Recommendation 2.3 Seismic Walkdown efforts. This section also describes the qualifications of these personnel. A description of the responsibilities and minimum qualifications of each Seismic Walkdown participant's role(s) is provided in Section 2 of the EPRI Report 1025286 (Reference 1).

3.2 WALKDOWN PERSONNEL

Table 3-1 below summarizes the names and corresponding roles of personnel who participated in the NTTF Recommendation 2.3 Seismic Walkdown effort.

Name	Equipment Selection Engineer	Plant Operations	Seismic Walkdown Engineer (SWE)	Licensing Basis Reviewer	IPEEE Reviewer	Peer Reviewer
B. Lory (S&A)	X		X			
W. Djordjevic (S&A)			X			
D. Zercher (NSPM)			X			
D. Cherlopalle (NSPM)			X			X ⁽¹⁾
K. Kriesel (NSPM)			X	X ⁽³⁾		
S. Seilhymmer (NSPM)		X				X ⁽¹⁾
P. Valtakis (NSPM)	X	X				
T. Bacon (S&A)						X ⁽²⁾
M. Etre (S&A)						X
D. Moore					X	

Notes:

1. Peer Review Team member for SWEL review only.
2. Peer Review Team Leader.
3. No licensing basis evaluations were performed.

3.3 PERSONNEL QUALIFICATIONS

Summarized below are the qualifications for the personnel who participated in the NTTF Recommendation 2.3 Seismic Walkdown efforts. The personnel qualifications include applicable seismic training, education, and professional experience.

Bruce M. Lory

- Activities Performed: Equipment Selection, SWE
- Seismic Training Completed: Instructor for the Fundamentals of Equipment Seismic Qualification Training and EPRI NTTF Recommendation 2.3 - Plant Seismic Walkdowns Training
- Education: Bachelors of Science in Mechanical Engineering from the State University of New York at Buffalo
- Professional Experience: 30+ years of experience in the commercial nuclear industry. Worked 18+ years in Seismic Qualification of equipment and components, and 15+ years of Environmental Qualification experience, in consulting services and in utility positions. Currently works as a senior consultant for Stevenson and Associates with specialization in Seismic and Environmental Qualification, as well as Single Failure-Proof crane design verification.

Walter (Wally) Djordjevic

- Activities Performed: SWE
- Seismic Training Completed: EPRI SQUG training and EPRI NTTF Recommendation 2.3 - Plant Seismic Walkdowns Training
- Education: Master of Science in Structural Engineering from the Massachusetts Institute of Technology
- Professional Experience: 37+ years of seismic experience serving the nuclear industry. Managed and led seismic walkdowns and fragility analyses of structures and components for use in probabilistic risk assessments. Performed more than twenty USI A-46 and IPEEE projects in response to the requirements of Generic Letters 87-02 and 88-20. Currently works as a senior Consultant and serves as President of Stevenson and Associates with specialization in the dynamic analysis and design of structures and equipment for seismic, blast, fluid, and wind loads.

Dennis Zercher

- Activities Performed: SWE
- Seismic Training Completed: EPRI SQUG Training
- Education: BSCE, Michigan Technological University

- Professional Experience: 28+ years of structural and seismic engineering in commercial nuclear industry. Performed the USI A-46 and IPEEE seismic walkdowns for Monticello Nuclear Generating Plant. A registered Professional Engineer in Minnesota and Wisconsin. He works at the Monticello Nuclear Generating Plant as a Design Engineer. Was a Structural Engineer at Fluidyne Engineering and PaR Systems.

Dileep Cherlopalle

- Activities Performed: Equipment Selection Peer Review, SWE
- Seismic Training Completed: EPRI NTTF Recommendation 2.3 - Plant Seismic Walkdowns Training
- Education: Master of Science in Structural Engineering – University of Alaska - Fairbanks
- Professional Experience: 3+ years of experience in commercial nuclear industry. Currently a Design Civil/Structural Engineer at PINGP.

Kyle Kriesel

- Activities Performed: Licensing Basis Reviewer, SWE
- Seismic Training Completed: EPRI SQUG Training
- Education: Bachelor of Science in Civil Engineering from North Dakota State University
- Professional Experience: 11+ years of experience in the commercial nuclear industry. A registered Professional Engineer in Minnesota. Worked as a Plant Design Civil/Structural Engineer at Cooper Nuclear Station and PINGP including structures monitoring implementation and structures monitoring program owner.

Stephen Seilhymer

- Activities Performed: Equipment Selection Peer Reviewer
- Seismic Training Completed: N/A
- Education: Bachelor of Science in Physics – Applied Nuclear Science from Winona State University
- Professional Experience: Reached rank of Electronics Technician First Class and performed as Reactor Operator and Engineering Watch Supervisor on a nuclear powered submarine in the United States Navy. Obtained Senior Reactor Operator License and has completed roles as Equipment Operator, Control Room Supervisor, Shift Manager, Assistant Operations Manager, Licensed Operator Requalification Training Supervisor, and Operations Simulator and Classroom Instructor positions at PINGP. Has a total of 30 years of nuclear experience, with 18 years of experience as a Senior Reactor Operator.

Pete Valtakis

- Activities Performed: Equipment Selection
- Seismic Training Completed: N/A
- Education: Bachelor of Science in Physics, Winona State University
- Professional Experience: Acted as a Reactor Operator on a nuclear powered submarine in the United States Navy, and was also assigned as a Leading Petty Officer of the Reactor Controls Division, an Engineering Officer of the Watch, and a Training Coordinator for the Naval Prototype Training Unit. Obtained Senior Reactor Operator License at PINGP and has completed roles as Reactor Operator, Lead Operator, Control Room Supervisor, and Shift Manager at PINGP. Participated in all phases of pre-operational testing and initial criticality of both PINGP nuclear generating units. Has a total of 39+ years of commercial nuclear experience, with 28+ years of experience as a Senior Reactor Operator.

Todd Bacon

- Activities Performed: Peer Review Team Leader
- Seismic Training Completed: Near Term Task Force Recommendation 2.3 – Plant Seismic Walkdowns
- Education: Bachelor of Science in Civil Engineering from the University of Illinois - Champaign
- Professional Experience: Mr. Bacon has thirty years of experience in the design and modification of mechanical and structural systems. His responsibilities have included serving as an Engineering Manager involving work from the conceptual design through to the installation support phases of multiple projects. Mr. Bacon has served as Project Engineer and Project Manager for numerous work scope efforts, including coordination of personnel in multiple locations. His efforts have also included significant client and/or regulatory interface, as required. These activities have also included responsibility for budgets, schedules and the technical accuracy of work performed. In addition, he has extensive experience in proposal and report development, as well as personnel training activities. Mr. Bacon's work has involved extensive use of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, including involvement with various piping system related committees.
- Performed: Peer Reviewer

Mark Etre

- Activities Performed: Peer Reviewer
- Seismic Training Completed: EPRI SQUG training and Near Term Task Force Recommendation 2.3 – Plant Seismic Walkdowns
- Education: Master of Science in Mechanical Engineering from the Worcester Polytechnic Institute
- Professional Experience: Mr. Etre is a Project Manager in the S&A Boston office. He has managed and led seismic walkdowns and analyses of structures and components. Mr. Etre has more than 20 years of seismic experience serving the nuclear industry. Mr. Etre has participated in numerous USI A-46 and IPEEE projects in response to the requirements of Generic Letters 87-02 and 88-20.

David L. Moore

- Activities Performed: IPEEE Reviewer
- Seismic Training Completed: EPRI SQUG Systems and Relay Evaluation Training Course
- Education: Bachelor of Science in Physics from University of Texas; Masters of Science in Civil/Structural Engineering from University of Washington
- Professional Experience: 30+ years of seismic PRA and SMA experience for the nuclear industry and NRC. Manager, Systems Task Leader, or Peer Reviewer for over 30 seismic PRAs, SMAs, or USI A-46 assessments. Tasks included development of seismic success paths and seismic equipment lists, performance of seismic walkdowns, quantification of seismic CDF and LERF, and performance of uncertainty and sensitivity analyses. Currently works as a Consultant for several seismic PRA projects, including NRC sponsored research project on treatment of seismic correlation.

4

Selection of SSCs

4.1 OVERVIEW

This section of the report describes the process used to select SSCs that were included in the Seismic Walkdown Equipment List (SWEL). The actual equipment lists that were developed in this process are found in Appendix A and are as follows:

- Table A-1 is a list of the equipment coming out of Screen #2 and entering Screen #3 for the equipment selection of SWEL 1. This list of equipment is titled Base List 1.
- Table A-2 contains the list of equipment which are required to support Spent Fuel Pool (SFP) Cooling and are classified as Seismic Category 1.
- Table A-3 is the PINGP Unit 1 list of equipment which has gone through the screening process defined in Reference 1 and then selected by the Equipment Selection Team to be seismically inspected in accordance with Reference 1, excluding SFP equipment which is in SWEL 2. This list of equipment is termed SWEL 1.
- Table A-4 is the PINGP Unit 1 list of equipment necessary to support SFP cooling and inventory, has gone through the screening process defined in Reference 1, and then selected from this list to be seismically inspected in accordance with Reference 1. This list of equipment is termed SWEL 2.

4.2 SWEL DEVELOPMENT

The selection of SSCs process described in EPRI Technical Report 1025286, *Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic*, dated June 2012 (Reference 1), was utilized to develop the SWEL for PINGP Unit 1.

The SWEL is comprised of two groups of items:

- SWEL 1 is a sample of items required to safely shut down the reactor and maintain containment integrity.
- SWEL 2 is a list of spent fuel pool related items.

4.2.1 SWEL 1 – Sample of Required Items for the Five Safety Functions

The process for selecting a sample of SSCs required for safe shutdown and maintaining containment integrity began with the composite Seismic Qualification Utility Group (SQUG) Safe Shutdown Equipment List (SSEL) (Reference 3). The SSEL was then subjected to the following four screens to identify the items to be included on the Seismic Walkdown Equipment List 1 (SWEL 1):

1. Screen #1 – Seismic Category 1

As described in Section 3 of Reference 1, only items that have a defined seismic licensing basis (Seismic Category I) are to be included in SWEL 1. Each item on the SSEL was reviewed to determine if it had a defined seismic licensing basis. All items identified as Seismic Category I, as defined in Section 12 of the PINGP USAR (Reference 2), were identified as having a defined seismic licensing basis. Electrical enclosures containing Class 1E devices were identified as Seismic Category I. Seismic Category I and Class 1E determination was made through a review of current design and licensing basis documentation.

2. Screen #2 – Equipment or Systems

This screen narrowed the scope of items to include only those that do not regularly undergo inspections to confirm that their configuration is consistent with the plant licensing basis. This screen further reduced the SWEL 1 by screening out any Safety Related SC I structures, containment penetrations, SC I piping systems, cable/conduit raceways and HVAC ductwork.

3. Screen #3 – Sample Considerations

This screen is intended to result in a SWEL 1 that sufficiently represents a broad population of plant Seismic Category 1 equipment and systems to meet the objectives of the NRC 10 CFR 50.54(f) Letter (Reference 6). In Section 3 of Reference 1, the screen for sample considerations is Screen #4. NSPM performed Screen #4 of Reference 1 as Screen #3. The screen for determining supports of the five safety functions (Screen #3 in Reference 1) was performed as Screen #4 for the PINGP. As a result of this change in order, the Base List 1 in Table A-1 of Appendix A of this report is a list of the equipment coming out of Screen #2. Also, this report defines Screen #3 of Reference 1 as Screen #4, and vice versa for Screen #4 of Reference 1.

The following attributes were considered in the selection process for items included on SWEL 1:

A. A variety of types of systems

The system is identified for each item on SWEL 1. The equipment included on SWEL 1 is a representative sample of several systems that perform one or multiple safety functions. Further, the systems represented include both frontline and support systems from those listed in Appendix E, *Systems to Support Safety Function(s)*, of Reference 1.

B. Major new and replacement equipment

The equipment included on SWEL 1 includes several items that have been modified or replaced over the past several years. Each item on SWEL 1 that is new or replaced is identified.

C. A variety of types of equipment

The equipment class is identified for each item on SWEL 1. The equipment included on SWEL 1 is a representative sample from each of the classes of equipment listed in Reference 1 Appendix B: Classes of Equipment. Where appropriate, at least one piece of equipment from each class is included on SWEL 1.

Screens #1, #2, and #3 resulted in no equipment in equipment classes (12) Air Compressors or (13) Motor Generators.

D. A variety of environments

The location for each item is identified on SWEL 1. The equipment included on SWEL 1 is a representative sample from a variety of environments (locations) in the site.

E. Equipment enhanced due to vulnerabilities identified during the IPEEE program

The equipment included on SWEL 1 includes several items that were enhanced as a result of the IPEEE program. Each item on SWEL 1 that was enhanced to correct an outlier from IPEEE is identified.

F. Contribution to risk

To determine the relative risk significance, the Risk Achievement Worth (RAW) and Fussell-Vesely importance from the internal plant PRA were used. Initiating events, maintenance events and human error events were not considered in the generation of this list. The thresholds for risk significance that were used (Fussell-Vesely risk > 5.0E-3, RAW > 2) are derived from the ANS/AMSE PRA Standard. This PRA Standard was endorsed by the NRC via Regulatory Guide 1.200.

In selecting equipment for SWEL 1 that met the above attributes, the equipment in the draft SWEL 1 had to first pass through Screens 1 through 4 before being assessed for being risk significant. Then risk significant equipment was identified based on the above criteria, and a subset of the more risk-significant equipment was selected to be on the final SWEL 1. Additionally, the list of risk-significant equipment from internal plant PRA was compared with the draft SWEL 1 to confirm that a reasonable sample of risk-significant equipment (relevant for a seismic event) was included on SWEL 1.

4. Screen #4 – Support for the 5 Safety Functions

This screen ensured that the scope of items included on the SWEL 1 are associated with maintaining the following five safety functions:

- A. Reactor Reactivity Control
- B. Reactor Coolant Pressure Control
- C. Reactor Coolant Inventory Control

- D. Decay Heat Removal
- E. Containment Function

These five safety functions were defined in Section 3 of Reference 1. The first four functions are associated with bringing the reactor to a safe shutdown condition. The fifth function is associated with maintaining containment integrity.

It is noted that items on SWEL 1 with a specific safety function(s) are considered frontline systems. Items with a safety-function designation of 'Support System HVAC', 'Support System AC Power', 'Support System DC Power', Engineered Safety Features Actuation System ('ESFAS') or 'Cooling Water' may be categorized as a frontline or support system. Items with a safety function designation of 'Support System HVAC', 'Support System AC Power', 'Support System DC Power', Engineered Safety Features Actuation System ('ESFAS') or 'Cooling Water' support at least one of the five safety functions however, the specific safety function(s) are depicted as numbers 1-5 in SWEL 1, corresponding to the 5 safety functions mentioned in the EPRI guidance (Reference 1). SWEL 1 in Table A-3 of Appendix A of this report contains a legend to correlate this number to a specific safety function.

4.2.2 SWEL 2 – Spent Fuel Pool Related Items

The process for selecting a sample of SSCs associated with the spent fuel pool (SFP) began with a review of the plant design and licensing basis documentation for the SFP and the interconnecting SFP cooling system. The following four screens narrowed the scope of SSCs to be included on the second Seismic Walkdown Equipment List (SWEL 2):

1. Screen #1 - Seismic Category 1

Only those items identified as Seismic Category 1 (SC-1) are to be included on SWEL 2 with exception of the SFP structure. As described in Reference 1, the adequacy of the SFP structure is assessed by analysis as a Seismic Category 1 structure. Therefore, the SFP structure is assumed to be seismically adequate for the purposes of this program and is not included in the scope of items included on SWEL 2.

Within the SFP system, only the SFP pumps and heat exchangers are classified as Non-Safety Related, Seismic Category 1 equipment. Therefore, these equipment items are added to SWEL 2. There are no motor, air, or fluid operated valves in the SFP system flow paths.

2. Screen #2 – Equipment or Systems

This screen considers only those items associated with the SFP that are appropriate for an equipment walkdown process.

The spent fuel pool structure is designed as Class I structure that fully meets the seismic and tornado design criteria given in Section 12 of Reference 2. The fuel pool structure is also designed to withstand the hydraulic pressure of the contained water, as well as other credible static and dynamic load cases (Section 10.2.1.2.1 – Reference 2).

The SFP gates are between the pools and the transfer canal. These gates are part of the overall SFP structure and are designed as SC-1 structures; therefore, the SFP transfer gates are included in the SFP structural analysis and are thereby excluded from being added to SWEL 2.

3. Screen #3 – Sample Considerations

This screen represents a process that is intended to result in a SWEL 2 that sufficiently represents a broad population of SFP Seismic Category 1 equipment and systems to meet the objectives of the NRC 50.54(f) Letter. The results of this screen are provided in Table A-2 of Appendix A of this report.

The following attributes were considered in the development of SWEL 2:

A. A variety of types of systems

The system is identified for each item on SWEL 2. The equipment included on SWEL 2 is a representative sample of the systems associated with the SFP and its cooling system.

B. Major new and replacement equipment

The equipment included on SWEL 2 includes items that have been modified or replaced over the past several years. No such equipment has been identified.

C. A variety of types of equipment

The equipment class is identified for each item on SWEL 2. The equipment included on SWEL 2 is a representative sample of each class listed in Reference 1 Appendix B: Classes of Equipment. Where appropriate, at least one piece of equipment from each class is included on SWEL 2.

The classes/types of equipment include; (5) Horizontal Pumps and (21) Tanks and Heat Exchangers. None of the valves in the SFP system are power-operated (motor, pneumatic, hydraulic); therefore, no valves are included on SWEL 2.

D. A variety of environments

The location for each item is identified on SWEL 2. The equipment included on SWEL 2 is to represent a variety of environments (locations) for equipment associated with the SFP and its cooling system. All items are located in the Auxiliary Building.

4. Screen #4 – Rapid Drain-Down

This screen identifies items that could allow the spent fuel pool to drain rapidly. Consistent with Reference 1, the scope of items included in this screen is limited to the hydraulic lines connected to the SFP and the equipment connected to those lines. For the purposes of this program it is assumed the SFP gates are installed and the SFP

cooling system is in its normal alignment for power operations. The SFP gates are passive devices that are integral to the SFP. As such, they are considered capable of withstanding a design basis earthquake without failure and do not allow for a rapid drain-down of the SFP.

The SSCs identified in this screen are not limited to SC-1 items, but are limited to those items that could allow rapid drain-down of the SFP. Rapid drain-down is defined as lowering of the water level to the top of the fuel assemblies within 72 hours after an SSE.

Excerpts from the PINGP USAR 10.2.2 document the design features which preclude rapid drain down of the Spent Fuel Pit.

The spent fuel pool cooling system is designed to remove the heat generated by stored spent fuel elements from the spent fuel pool. System design does not incorporate redundant components except for the spent fuel pool pump and the heat exchanger. Alternate cooling capability can be made available under anticipated malfunctions or failures; System piping is so arranged that failure of any pipeline does not drain the spent fuel pool below the top of the stored spent fuel elements.

The spent fuel pool pump suction line is located above the fuel assemblies; this prevents uncovering fuel assemblies during loss of water as a result of a possible suction line rupture.

The most serious failure of this system is complete loss of water in the storage pool. To protect against this possibility, piping connections enter the top of the spent fuel pool as stated above except for the drain connection from the transfer canal to the holdup tank recirculation pump. Even if the water in the transfer canal were completely drained, the active portion of the spent fuel would not be uncovered due to the elevation of the bottom of the gate connection in the wall separating the transfer canal from the spent fuel pool. Thus, complete siphon draining of the pool is impossible. The spent fuel pool pump suction connection only goes approximately 4 feet below the normal water level.

The cooling water return line which extends 10 feet below the normal water level is prevented from siphon draining the pool by a 0.5 inch hole in the pipe located 4 feet below the normal water level.

Based on the PINGP spent fuel pool design described, the spent fuel pool does not have a rapid drain down scenario.

4.2.3 SWEL 2 Development Conclusion

There are no rapid drain-down considerations included in the PINGP SWEL 2 list. The SFP is shared between both units at the PINGP. The results of the seismic walkdowns for SWEL 2 are presented in this report for the PINGP Unit 1. The seismic walkdown report for PINGP Unit 2 does not contain a discussion of SWEL 2 walkdowns.

5

Seismic Walkdowns and Area Walk-Bys

5.1 OVERVIEW

Seismic Walkdowns and Area Walk-Bys were conducted by two 2-person teams of trained Seismic Walkdown Engineers (SWE) in accordance with Reference 1. The Seismic Walkdowns and Area Walk-Bys are discussed in more detail in the following sections.

Consistent with Section 4, *Seismic Walkdowns and Area Walk-Bys*, of Reference 1 the SWEs used their engineering judgment, based on their experience and training, to identify potentially adverse seismic conditions. Where needed, the engineers were provided the latitude to rely upon new or existing analyses to inform their judgment.

The SWEs conducted the Seismic Walkdowns and Area Walk-Bys together as a team, in accordance with Reference 1. During these evaluations, the SWEs actively discussed their observations and judgments with each other. The results of the Seismic Walkdowns and Area Walk-Bys reported herein are based on the comprehensive and consensus agreement of the SWEs.

5.2 SEISMIC WALKDOWNS

The Seismic Walkdowns focused on the seismic adequacy of the items on the SWEL 1 and SWEL 2 as provided in Appendix A of this report. The Seismic Walkdowns also evaluated the potential for nearby SSCs to cause adverse seismic interactions with the SWEL items. The seismic walkdown teams focused on the following adverse seismic conditions associated with the subject item of equipment:

- Adverse anchorage conditions
- Adverse seismic spatial interactions
- Other adverse seismic conditions

The results of the seismic walkdowns have been documented on the Seismic Walkdown Checklists (SWCs) and Area Walk-by Checklists (AWCs) provided in Appendix C of Reference 1. Seismic Walkdowns were performed and a SWC completed for 80 of the 107 components identified on the PINGP Unit 1 SWEL 1 and 2 of 2 for SWEL 2. The completed SWCs are provided in Appendix B of this report. Additionally, photos have been included with most SWCs to provide a visual record of the item along with any comments noted on the SWC. Drawings and other plant records are cited in some of the SWCs, but are not included with the SWCs because they are readily retrievable documents through the site's document management system.

Seismic Walkdowns are deferred for the remaining 29 items to a unit outage or appropriate time when the equipment is accessible. These items could not be walked down during the 180 day period following the NRC's endorsement of the EPRI Report (Reference 1) due to being inaccessible. Inaccessibility of this equipment was either based on the location of the equipment, current plant conditions, or due to the electrical safety hazards posed while the equipment is operating. Appendix D of this report identifies the inaccessible equipment along with the plan for future Seismic Walkdowns.

The following subsections describe the approach followed by the SWEs to identify potentially adverse anchorage conditions, adverse seismic interactions, and other adverse seismic conditions during the Seismic Walkdowns.

5.2.1 Adverse Anchorage Conditions

Guidance for identifying anchorage that could be degraded, non-conforming, or unanalyzed relied on visual inspections of the anchorage and verification of anchorage configuration. Details for these two types of evaluations are provided in the following subsections.

The evaluation of potentially adverse anchorage conditions described in this subsection applies to the anchorage connections that attach the identified item of equipment to the civil structure on which it is mounted. For example, the welded connections that secure the base of a Motor Control Center (MCC) to the concrete floor would be evaluated in this subsection. Evaluation of the connections that secure components within the MCC is covered later in the subsection "Other Adverse Seismic Conditions."

Visual Inspections

The purpose of the visual inspections was to identify whether any of the following potentially adverse anchorage conditions were present:

- Bent, broken, missing, or loose hardware
- Corrosion that is more than mild surface oxidation
- Visible cracks in the concrete near the anchors
- Other potentially adverse seismic conditions

Based on the results of the visual inspection, the SWEs judged whether the anchorage was potentially degraded, non-conforming, or unanalyzed. The results of the visual inspection were documented on the SWC, as appropriate. If there was clearly no evidence of degraded, nonconforming, or unanalyzed conditions, then it was indicated on the checklist and a licensing basis evaluation was not necessary. However, if it was not possible to judge whether the anchorage is degraded, nonconforming, or unanalyzed, then the condition was entered into the Corrective Action Program as a potentially adverse seismic condition.

5.2.2 Configuration Verification

In addition to the visual inspections of the anchorage as described above, for at least 50% of applicable equipment items, the configuration of the installed anchorage was verified to be consistent with existing plant documentation.

Line-mounted equipment (e.g., valves mounted on pipelines without separate anchorage) were not evaluated for anchorage adequacy and were not counted in establishing the 50% sample size.

Examples of documentation that is considered to verify that the anchorage installation configurations are consistent with the plant documentation include the following:

- Design drawings
- Seismic qualification reports of analyses or shake table tests
- IPEEE or USI A-46 program documentation, as applicable

See Table 5-1 below for the accounting of the 50% anchorage configuration verifications, and the individual SWC forms in Appendix B for the specific drawings used for each anchorage configuration verification.

Table 5-1: Anchorage Configuration Confirmation				
SWEL	No. of SWEL Items (A)	Line Mounted Items (B)	Required to Verify? (A-B)/2	Items Verified
1	107	30	39	32
2	2	0	1	2
Totals	109	30	40	34 (11 anchorage verifications have been deferred and will be completed as outlined in Appendix D)

5.2.3 Adverse Seismic Spatial Interactions

An adverse seismic spatial interaction is the physical interaction between the SWEL item and a nearby SSC caused by relative motion between the two during an earthquake. An inspection was performed in the area adjacent to and surrounding the SWEL item to identify any seismic interaction conditions that could adversely affect the capability of that SWEL item to perform its intended safety-related functions.

The three types of seismic spatial interaction effects that were considered are as follows:

- Proximity
- Failure and falling of SSCs
- Flexibility of attached lines and cables

Detailed guidance for evaluating each of these types of seismic spatial interactions is described in Appendix D, *Seismic Spatial Interaction* of Reference 1.

The Seismic Walkdown Engineers exercised their judgment to identify seismic interaction hazards. Section 5.2.5 provides a summary of issues identified during the seismic Walkdowns.

5.2.4 Other Adverse Seismic Conditions

In addition to adverse anchorage conditions and adverse seismic interactions, described above, other potentially adverse seismic conditions that could challenge the seismic adequacy of a SWEL item could have been present. Examples of the types of conditions that could pose potentially adverse seismic conditions include the following:

- Degraded conditions
- Loose or missing fasteners that secure internal or external components to equipment
- Large, heavy components mounted on a cabinet that are not typically included by the original equipment manufacturer
- Cabinet doors or panels that are not latched or fastened
- Other adverse conditions

In September 2012, a revised position from the NRC Staff in regards to Seismic Walkdowns of electrical cabinets and panels was sent to all licensees through the Nuclear Energy Institute (NEI). In this document, it was communicated that it is expected that all electrical cabinets on the SWEL that can be reasonably opened without undue safety or operational hazard will be opened during the walkdown, whether or not it is necessary to look inside to check its anchorage. The NRC Staff described the visual inspection that should be made while viewing the interior of the cabinet through the door opening as including the following checks:

- Visually check for evidence that internal components are or are not adequately secured to the cabinet,
- Check whether fasteners that secure adjacent cabinets together are in place, if such fasteners are needed to prevent potentially adverse seismic interaction between the cabinets, and
- Look for "Other Adverse Seismic Conditions," as described on page 4-4 of Reference 1.

Due to the timing of this communication, PINGP did not perform all of the internal inspections of electrical cabinets and panels. The remaining inspections were deferred to a future refueling outage or another appropriate time when the equipment is accessible. The electrical cabinets and panels which still need to be internally inspected are identified in Table D-1 of Appendix D of this report. The SWCs for the equipment identified in Table D-1 that cannot be opened for internal inspections will be revised at the time of the supplemental walkdowns to indicate the results of these internal inspections.

Any other adverse seismic conditions that were identified during the Seismic Walkdowns are documented on the items' SWCs in Appendix B and Table 5-2, as applicable.

This internal inspection of electrical cabinets and panels was performed at PINGP to the extent allowed by the plant. Any situations that posed a danger to personnel or the proper operation of the plant were deferred to a future outage and are identified in Table D-1 of Appendix D of this report. The Seismic Walkdown Checklists (SWC) for the equipment identified in Table D-1 that cannot be opened for internal inspections will be revised at the time of the supplemental walkdown to indicate the results of these internal inspections.

Any identified other adverse seismic conditions are documented on the items' SWC in Appendix B and Table 5-2, as applicable.

5.2.5 Issues Identified during Seismic Walkdowns

Table 5-2 at the end of this section provides a summary of issues identified during the equipment Seismic Walkdowns. The equipment Seismic Walkdowns resulted with a total of 11 concerns identified and each of these was entered into the plant's Corrective Action Plan (CAP). All of the identified concerns were assessed and it was concluded that the anomaly or issue would not prevent the associated equipment from performing its safety-related function(s). None of the concerns identified by the SWEs during the equipment Seismic Walkdowns were judged to be potentially adverse seismic conditions that could affect the safety related functions of equipment.

5.3 AREA WALK-BYS

The purpose of the Area Walk-Bys is to identify potentially adverse seismic conditions associated with other SSCs located in the vicinity of the SWEL items. Vicinity is generally defined as the room containing the SWEL item. If the room is very large (e.g., Turbine Hall), then the vicinity is identified based on judgment, e.g., on the order of about 35 feet from the SWEL item. This vicinity is described on the Area Walk-By Checklist (AWC), provided in Appendix C of this report. A total of 29 Area Walk-bys were performed for PINGP Unit 1.

The key examination factors that were considered during Area Walk-Bys include the following:

- Anchorage conditions (if visible without opening equipment)
- Significantly degraded equipment in the area
- A visual assessment (from the floor) of cable/conduit raceways and HVAC ducting (e.g., condition of supports or fill conditions of cable trays)
- Potentially adverse seismic interactions including those that could cause flooding, spray, and fires in the area
- Other housekeeping items that could cause adverse seismic interaction (including temporary installations and equipment storage)
- Scaffold construction was inspected to verify compliance with site procedures (Reference 38).
- General plant conditions were inspected to verify compliance with site procedures (Reference 39).

The Area Walk-Bys are intended to identify adverse seismic conditions that are readily identified by visual inspection, without necessarily stopping to open cabinets or taking an extended look. If a potentially adverse seismic condition was identified during the Area Walk-By, then additional time was taken, as necessary, to evaluate adequately whether there was an adverse condition and to document any findings.

The results of the Area Walk-Bys are documented on the AWCs included in Appendix C of this report. A separate AWC was filled out for each area inspected. A single AWC was completed for areas where more than one SWEL item was located.

Additional details for evaluating the potential for adverse seismic interactions that could cause flooding/ spray or fire in the area are provided in the following two subsections.

5.3.1 Seismically-Induced Flooding/Spray Interactions

Seismically-induced flooding/spray interactions are the effect of possible ruptures of vessels or piping systems that could spray, flood or cascade water into the area where SWEL items are located. This type of seismic interaction was considered during the IPEEE program. Those prior evaluations were considered, as applicable, as information for the Area Walk-Bys.

One area of particular concern to the industry is threaded fire protection piping with long unsupported spans. If adequate seismic supports are present or there are isolation valves near the tanks or charging sources, flooding may not be a concern. Numerous failures have been observed in past earthquakes resulting from sprinkler head impact. Less frequent but commonly observed failures have occurred due to flexible headers and stiff branch pipes, non-ductile mechanical couplings, seismic anchor motion and failed supports.

Examples where seismically-induced flooding/spray interactions could occur include the following:

- Fire protection piping with inadequate clearance around fusible-link sprinkler heads
- Non-ductile mechanical and threaded piping couplings can fail and lead to flooding or spray of equipment
- Long, unsupported spans of threaded fire protection piping
- Flexible headers with stiffly supported branch lines
- Non-Seismic Category I tanks

The SWEs exercised their judgment to identify only those seismically-induced interactions that could lead to flooding or spray. Any seismically-induced flooding/ spray interactions that were identified during the Area Walk-bys are documented on the AWCs in Appendix C and Table 5-3 below, as applicable.

5.3.2 Seismically-Induced Fire Interactions

Seismically-induced fire interactions can occur when equipment or systems containing hazardous/flammable material fail or rupture. This type of seismic interaction was considered during the IPEEE program. Those prior evaluations were considered, as applicable, as information for the Area Walk-Bys.

Examples where seismically-induced fire interactions could occur include the following:

- Hazardous/flammable material stored in inadequately anchored drums, inadequately anchored shelves, or unlocked cabinets
- Natural gas lines and their attachment to equipment or buildings
- Bottles containing acetylene or similar flammable chemicals
- Hydrogen lines and bottles

Another example where seismically-induced fire interaction could occur is when there is relative motion between a high voltage item of equipment (e.g., 4160 volt transformer) and an adjacent support structure when they have different foundations. This relative motion can cause high voltage busbars, which pass between the two, to short out against the grounded bus duct surrounding the busbars and cause a fire.

The Seismic Walkdown Engineers exercised their judgment to identify only those seismically-induced interactions that could lead to fires. Any seismically-induced fire interactions that were identified during the Area Walk-bys are documented on the AWCs in Appendix C and Table 5-3 below, as applicable.

5.3.3 Issues Identified during Area Walk-bys

During the Area Walk-Bys the SWEs identified several instances where the seismic housekeeping was not in accordance with site procedures. These instances were noted on the AWCs and the issues were entered into the site CAP. Table 5-3 at the end of this section provides a summary of the issues identified during the Area Walk-Bys. The issues are associated with Area Walk-By designations, which are provided in Appendix C.

In total, 31 issues were identified during the Area Walk-Bys and entered into the site's CAP. A total of eleven observations identified during the Area Walk-Bys are being resolved in the work management process, and are conservatively reported in this table for tracking purposes. No potentially adverse seismic conditions were identified that resulted in a seismic licensing basis evaluation.

Table 5-2: Prairie Island Unit 1 SWC CAP Status

Equipment ID	Description of Issue	CAP#	Status
Multiple	Multiple open "S" hooks for lighting fixtures were identified during the Seismic Walkdowns. An action request was initiated to track all of these occurrences and perform an extent of condition. See Appendix F for all open "S" hook observations.	1352001	Open – Work Request (WR) 84434, 83556, and 83533 are associated with this observation.
55000	Bottom latch has some apparent deterioration degradation due to engine vibration. This condition does not affect seismic capacity; however recommend repair for maintenance purpose.	1353290	Closed to WR 83855.
053-321	The day tank foundation has eight (7/8" diameter) anchors. One of these anchors appears to not be fully seated.	1352845	Closed to WR 83768. WR is complete.
111M/XFMR	There is a coil of cable that looks like it is coiled up using electrical tape. This is not a seismic issue with 111M XFMR.	1353147	Closed to WR 83841. WR is complete.
145-122	Foreign material (black insulation 1" x 2" x 8") found behind the 12 CC pump at column base 1-CCH-375 (support number).	1352321	Complete.
CV-31652	The conduit feeding power to CV-31652 has one conduit clamp that is missing a nut. SWE's judge existing conduit configuration is still seismically adequate and acceptable. However, it is recommended that the nut is put back on.	1353581	Closed to WR 83924. WR is complete.

Table 5-2: Prairie Island Unit 1 SWC CAP Status

Equipment ID	Description of Issue	CAP#	Status
CV-31652	SWEs noted that CV-31652 F/R and CV-31653 F/R are mounted to a single vertical Unistrut with just one machine screw. The machine screws are not fully threaded into their associated nuts. Instead they are approximately half threaded into the nuts. SWEs judge current configuration as acceptable for seismic loading, but full thread engagement is needed.	1353368	Open - WR 83878 is associated with this observation.
E-1	The partition wall next to E-1 is missing all six floor bolts. The bolts connecting the partition wall to the vertical walls are in place. Is the partition wall seismically qualified in this configuration?	1357500	Closed to WR 84916 and WO 467570.
MCC 1T2 – XFR SW	There is foreign material behind the transfer switch 1, near the wall (an O ring that is red in color). It is a housekeeping issue, and not a seismic concern.	1352321	Complete.
035-012	There is an abandoned hanger rod in the ceiling (red tape on the tip) above HX.	1352373	Closed to WR 83651 and WO 465606.
035-012	There is a bolt missing in a base plate next to MCC 1GA BUS 1.	1352717	Closed to WR 83744. WR is complete.

Table 5-3: Prairie Island Unit 1 Area Walk-By CAP Status

Area Walk-By Designation	Description of Issue	CAP#	Status
Multiple	Multiple open "S" hooks for lighting fixtures were identified during the Seismic Walkdowns. An action request was initiated to track all of these occurrences and perform an extent of condition. See Appendix F for all open "S" hook observations.	1352001	Open - WR 84434, 83556, and 83533 are associated with this observation.
3	Two drums are present under the component cooling heat exchanger to collect leak off. The drums are poorly tied off by rope to a small copper drain line for the 11 component cooling pump unit cooler.	1353280	Closed to WR 83853, which is complete.
3	One of the two floor brackets for the unistrut that supports the component cooling motor power cables appears to be bent and the anchor is loose. There is a tygon tube wedged under the corner.	1353327	Closed to WR 83865 and WO 465979.
-10	Missing anchor on stanchion beneath 121 Loop A Main Steam ISO Valve drain line.	1353371	Closed to WR 83874.
10	One light fixture is abandoned in overhead near pipe support 1-CCH-311 and should be removed.	1353409	Closed to WR 83892.
13	Behind the cabinet RMU2N, one wing nut holding the emergency battery EL-28 is missing.	N/A	WR 83724 is complete.
15	There are lighting diffusers tied off to the support grid. Unit 1 and Unit 2 "C" panels have a fluorescent light fixture on chains too close (within 1"-2") to the panel.	1352209	Open.
15	Unit 1 and Unit 2 "E" panels have side panels that have slid out of position. This is a housekeeping issue and not a seismic concern.	1352102	Closed to WR 83579, which is complete.
15	Fire extinguisher bracket 224 has a rotated bracket (into the insulation) and should be repaired.	N/A	WR 83584 initiated.
15	The filing cabinets adjacent to the main control board in both Unit 1 and Unit 2 are close to the main control board.	1357683	Open.

Table 5-3: Prairie Island Unit 1 Area Walk-By CAP Status

Area Walk-By Designation	Description of Issue	CAP#	Status
15	The cart adjacent to the Protection Systems III and the cart adjacent to cabinets RPI-1, -2, and -3 in Unit 1 are close to the equipment. The chain is not used to restrain the carts.	1357686	Open.
22	As a precaution, the SWEs recommend closing the door pulley "S" hook above door 228	1352343	Closed to WR 83645 and WR 83646.
19	The 121 filtered water strainer adjacent to the diesel oil day tank skid has corroded anchors (wet environment).	1352851	Closed to WR 83771 and WR 83772.
1	The drip pan beneath the 12 containment spray pump is missing a bolt on the south side.	1353388	Closed to WR 83885 and WO 465983.
6	Duct tape needs to be removed from the special vent zone line discussed in question 4.	1352391	Closed.
6	The light fixture above the "VFD" cabinets for 11 and 13 charging pumps is close (roughly 1" gap) to the conduits running into the top of the VFDs.	1352209	Open.
6	There are two abandoned hanger rods above the component cooling line with hanger rod 1-RHRH-385 near MCC2K BUS 2.	1352549	Closed to WR 83712 and WO 465652.
5	A top cover plate wing nut is missing from the 2RE-39 radiation monitor. There is also a loose screw on the side door cover. The monitor is resting on the floor near the wall, and is located between the 22 component cooling pump and the stairs to the upper level.	1352076	Closed to WR 83571.
7	There were scaffold carts within 2" of touching the MCC 1L, Bus 2. The cart wheels are chocked but in the wrong orientation. The cart configuration allowed the cart to slide into the MCC. The condition was fixed upon discovery. Site personnel chocked the wheels in the acceptable orientation.	1355467	Closed.

Table 5-3: Prairie Island Unit 1 Area Walk-By CAP Status

Area Walk-By Designation	Description of Issue	CAP#	Status
8	Terminal Box - A1749 (terminal box for high flux) is missing an anchor bolt to wall at the lower right corner. There are three other bolts, therefore SWEL judged that the terminal bolt is seismically anchored to the wall and is acceptable.	N/A	WR 83891 initiated.
16	A wood 10"x20" insert on the floor next to the grating is a combustible.	1353367	Closed to WR 83876 and WO 465981.
16	The cable trays adjacent to the south wall house cables which are resting on top of, and out of, a tray that is unrestrained laterally.	1353415	Closed to WR 83893 and WO 465985.
17	There are two loose ¼" concrete anchors on the bracket supporting PI-17652.	N/A	WR 83868 initiated.
21	There is a missing fastener on the guard for 121 instrument air compressor.	1352975	Closed to WR 83793 and WO 466348.
21	The chain fall for 2AF01301 can potentially strike MCC 1A BUS 1.	1352961	Closed to WR 83796 and WO 465937.
25	The back cover bolts are loose for 111M voltage regulator cabinet.	N/A	WR 83828 initiated.
25	A conduit box is attached to Unistrut, and both screws are loose. They are located approximately 10' from the floor and above the voltage regulator.	N/A	WR 83834 is complete.
25	Vertical rigid conduit to box CS19148 (BUS 111 safeguards SWGR unit cooler) and Panel 132-10 has a conduit clamp not attached to the conduit. Located on column E9, it has a misplaced loose attachment at about 10' from floor underneath duct.	N/A	WR 83829 is complete.
25	The conduit bracket attached to the Unistrut for the conduit running to 480V Bus 111 and 112 control panel seems to be loose with a gap between the bracket and the Unistrut.	N/A	WR 83833 is complete.

Table 5-3: Prairie Island Unit 1 Area Walk-By CAP Status

Area Walk-By Designation	Description of Issue	CAP#	Status
25	One of the two supports for a light fixture is loose from the wall and the upper anchor bolt for the support is not fully engaged. SWEs judged that the light fixture will remain in place, but recommend that the bolt be tightened.	N/A	WR 83834 is complete.
25	The conduit support on top of the RMU 213 cabinet, on the west wall, has a bolt that is not fully engaged. The support is located about 10' from floor level.	N/A	WR 83836 is complete.
25	An electrical wire is tie wrapped to the conduit above door 54, next to an electrical cable tray.	1353147	Closed to WR 83841, which is complete.
25	A light fixture may come in contact with the flexible conduit going into the 11A transformer. It is located on top of 11A transformer with only 2" of clearance.	1353277	Closed to WR 83854.
26	The emergency light EL15, located on the safety related block wall number 26 and above the test station for the breaker cabinets, has a missing wing nut on the one side for the threaded rod holding EL15 on the wall bracket.	1352966	Closed to WR 83790, which is complete.
26	Above breaker 15-6, the conduit support attachment seems to be loose. It is connecting the conduit to the Unistrut.	1353223	Closed to WR 83835, which is complete.
28	The unistrut support for panel 1LPB-4 and 1RPB3 seems to have no anchor bolts on one of the legs. There are anchor bolts for the other leg. The leg might have poor quality fillet welds. 1LPB-4 is mounted on a unistrut frame that also supports 1RPB3 and the three transformers above. The unistrut frame is clip angled to a structural column in three places and is welded to an I-beam at both ends. If there is no fillet weld on the left leg, the frame is still seismically adequate and will not pry off the wall and impact MCC 1GA Bus 1.	1352426	Closed to WR 83676 and WO 465598.
28	The cover plate on the end of the MCC 1GA BUS 2 cabinet is missing a bolt.	1352415	Closed to WR 83671 and WO 465605.

Table 5-3: Prairie Island Unit 1 Area Walk-By CAP Status

Area Walk-By Designation	Description of Issue	CAP#	Status
28	A single light fixture has duct tape and it needs to be removed for housekeeping.	1352391	Closed.
28	There is scaffolding tied to the spent fuel pool heat exchanger 122. One of the scaffold couplers is within 1" of touching CC-43-7.	1352559	Closed.
29	There are stored Operations test equipment above the electrical cabinet 1RPB6 next to the 121 spent fuel pool pump. Also, there are electrical wires loosely tied around the piping next to the 184 entry door.	N/A	WR 83723
29	A 3" copper line is running along the ceiling above 121 and 122 pumps. It has beam clamps in the same direction and a broken hanger rod. This configuration may be vulnerable in a seismic event.	1352733	Closed to WR 83747 and WO 465742.
29	There is lead radiation protection shielding chained to the wall near the spent fuel pool skimming pumps. If the shielding falls, it could potentially damage the tubing.	1352586	Open. WR 83641 is also associated with this issue.

6

Licensing Basis Evaluations

Section 5, *Seismic Licensing Basis Evaluation*, of Reference 1 provides a detailed process to perform and document seismic licensing basis evaluations of SSCs identified when potentially adverse seismic conditions are identified during the equipment Seismic Walkdowns or Area Walk-Bys. The process provides a means to identify, evaluate and document how the identified potentially adverse seismic condition meets the site's seismic licensing basis without entering the condition into the site's Corrective Action Program (CAP). Further, the process directs that if a condition cannot be readily shown to meet the seismic licensing basis, then the identified condition should be entered into the plant's CAP where it will be determined whether the condition does or does not meet the seismic licensing basis.

All potentially adverse seismic conditions that were identified during the equipment Seismic Walkdowns or Area Walk-Bys were entered into the plant's CAP. Therefore, no seismic licensing basis evaluations were completed in accordance with the process documented in Section 5 of Reference 1. Tables 5-2 and 5-3 at the end of Section 5 of this report provide a summary of the issues identified in both the Seismic Walkdowns and Area Walk-Bys.

7

IPEEE Vulnerabilities Resolution Report

In the NRC 10 CFR 50.54(f) letter (Reference 6), the NRC requested that licensees provide a list of plant-specific vulnerabilities (including any seismic anomalies, outliers, or other findings) identified by the Individual Plant Examination of External Events (IPEEE) and a description of the actions taken to eliminate or reduce them (including their completion dates), as part of NTF Recommendation 2.3 – Seismic.

Section 7, IPEEE Vulnerabilities, of Reference 1 provides guidance for addressing and reporting the evaluations related to the Individual Plant Examination of External Events (IPEEE) program and the actions taken in response to the vulnerabilities that were identified during that program. According to the guidance in Reference 1, the submittal report should describe the actions taken to eliminate or reduce the IPEEE seismic vulnerabilities, and the date the actions were documented as complete. Table 7-1 and the following paragraphs provide this information.

On October 23, 2008, the NRC Staff transmitted a Request for Additional Information (RAI) to NSPM as part of their review of the PINGP plant license renewal application (Reference 5). The NRC's RAI "SAMA 3.c" requested the following information:

"As stated in the IPEEE seismic analysis, several potential seismic outliers were dispositioned through an analysis process which determined that the impacted function was not required or could be recovered, or that an alternate means for performing the associated function was available...For those outliers stated as being resolved through the closure of USI A-46 (IPEEE Section A.2.4.1.1), confirm that all corrective actions have been completed, and that their use is supported by procedures and training, as appropriate." (Reference 5)

NSPM provided a response to this RAI in a letter dated November 21, 2008 (Reference 40). In its response, NSPM stated that components listed in Section A.2.4.1.1 of the PINGP IPEEE provide a summary of the SQUG outliers that pertain to the IPEEE scope. The NSPM RAI response also noted that in a letter from the NRC to Northern States Power dated August 5, 1998, Resolution of Unresolved Safety Issue (USI) A-46 for PINGP, Units 1 and 2 (TAC NOS. M69474 and M69475), the NRC issued a Safety Evaluation stating that the NRC had received notification that all outliers had been resolved, except for four equipment outliers. NSPM had notified the NRC of equipment outliers, resolution descriptions, and resolution timeline, if not already completed, in Attachment 2 of an RAI response letter sent to the NRC from NSPM dated November 17, 1997 (Reference 41). In this 1997 letter, NSPM committed to resolve the four remaining equipment outliers during the PINGP Unit 2 outage in December 1998 and the PINGP Unit 1 outage in May 1999.

Of those four remaining equipment outliers, three (3) were related to components listed in section A.2.4.1.1 of the Prairie Island IPEEE. The equipment included control valves CV-39409, CV-39401, and Motor Control Center MCC-2LA2. The actions taken to resolve the three outliers are described below in Table 7-1. Per the work completed as described below, all outliers identified in Section A.2.4.1.1 of the PINGP IPEEE have

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been resolved. Aside from this completed work, no additional procedure changes or training was required to close identified outliers.

One of these three outliers was walked down as part of the NTTF Recommendation 2.3 Seismic Walkdowns. CV-39401 was selected as a component for SWEL 1 for PINGP Unit 1. The Seismic Walkdown Checklist for this component is provided in Appendix B of this report.

Table 7-1: Prairie Island IPEEE Seismic Vulnerabilities

Equipment Description	Potential Failure Mode	Resolution	Date Completed
CV-39409	Control valve CV-39409 was identified as an outlier because contact with surrounding conduits could break the solenoid tap connection.	The airline to valve CV-39409 was relocated such that the airline is greater than two (2) inches from other electrical conduits in the area.	1R20 refueling outage in May of 1999
CV-39401	Control valve CV-39401 was identified as an outlier because contact with surrounding conduits could break the solenoid tap connection.	The airline and associated solenoid valve for CV-39401 were rerouted so that the airline and solenoid valve are a minimum of two inches away from existing conduits. Also, the electrical junction box associated with the solenoid valve for CV-39401 was relocated such that the box is greater than two inches from other electrical conduits in the area.	1R20 refueling outage in May of 1999
MCC-2LA2	Motor Control Center MCC-2LA2 was identified as an outlier because it was observed that the MCC rocked about its weak axis when bumped, making the welding at the base suspect.	New angle support braces were installed at the base of MCC-2LA2 to increase the structural stability of the MCC.	2R19 refueling outage in November of 1998

8

Peer Review

A peer review team consisting of four individuals was assembled and peer reviews were performed in accordance with Section 6, Peer Reviews of (Reference 1). The Peer Review process included the following activities:

- Review of the selection of SSCs included on the SWEL
- Review of a sample of the checklists prepared for the Seismic Walkdowns and Area Walk-Bys
- Review of Licensing basis evaluations, as applicable
- Review of the decisions for entering the potentially adverse conditions into the CAP process
- Review of the submittal report
- Provide a summary report of the peer review process in the submittal report

The peer reviews were performed independently from this report and the summary Peer Review Report is provided in Appendix E of this report.

9

References

Reference drawings related to SWEL items are provided in the Seismic Walkdown Checklists and if applicable, in the Area-Walkdown Checklists.

1. EPRI Technical Report 1025286, *Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic*, dated June 2012.
2. Prairie Island Nuclear Generating Plant Updated Final Safety Analysis Report (USAR), Revision 31.
3. NSP (M.D. Wadley) Letter to NRC, "Response to Generic Letter 87-02, Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors, Unresolved Issue (USI) A-46," dated November 20, 1995.
4. Pioneer Service & Engineering Co. Report JAB-PS-02; "Prairie Island Nuclear Generating Plant Earthquake Analysis of the Reactor-Auxiliary-Turbine Building", dated November 29, 1968.
5. NRC Letter to NSPM, "Request for Additional Information Regarding the Analysis of Severe Accident Mitigation Alternatives for Prairie Island Nuclear Generating Plant, Units 1 and 2," dated October 23, 2008, ADAMS Accession No. ML082950604.
6. NRC (E Leeds and M Johnson) Letter to All Power Reactor Licensees et al., "Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendation 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, ADAMS Accession No. ML12056A046.
7. John A. Blume & Associates, Engineers, "Prairie Island Nuclear Generating Plant Earthquake Analysis: Reactor-Auxiliary-Turbine Building Response Acceleration Spectra", JAB-PS-04, February 16, 1971.
8. NRC Letter, "Endorsement of Electric Power Research Institute (EPRI) Draft Report 1025286, 'Seismic Walkdown Guidance,'" dated May 31, 2012, ADAMS Accession No. ML12145A529.
9. Not used.

10. NSPM Letter to NRC, "Prairie Island Nuclear Generating Plant's 120-Day Response to NRC Request for Information Pursuant to 10 CFR 50.54(f) Regarding the Seismic Aspects of Recommendations 2.3 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident," dated July 9, 2012.
11. Not used.
12. Not used.
13. Not used.
14. ACI 318-71, 77, 83 Building Code Requirements for Reinforced Concrete
15. ACI 301, *Specifications for Structural Concrete for Buildings*
16. ACI 347, *Recommended Practice for ANSI A145.1 Concrete Formwork*
17. ACI 305, *Recommended Practice for Hot ANSI A170.1 Weather Concreting*
18. ACI 211.1, *Recommended Practice for Selecting Proportions for Normal Weight Concrete*
19. ACI 304, *Recommended Practice for Measuring, Mixing, Transporting, and placing concrete*
20. ACI 315, *Manual of Standard Practice for Detailing Reinforced Concrete Structures*
21. ACI 306, *Recommended Practice for Cold Weather Concreting*
22. ACI 309, *Recommended Practice for Consolidation of Concrete*
23. ACI 308, *Recommended Practice for Curing Concrete*
24. ACI 214, *Recommended Practice for ANSI A146.1 Evaluation of Compression Test Results of Field*
25. ACI 311, *Recommended Practice for Concrete Inspection*
26. ACI 304, *Preplaced Aggregate Concrete for Structural and Mass Concrete*
27. Report by ACI Committee 304, *Placing Concrete by Pumping Method*
28. AISC-69,78 *Specification for the Design, Fabrication, and Erection of Structural Steel for Building*
29. AWS D1.1, *Structural Welding Code*
30. ASME Boiler & Pressure Vessel Code, Section III -
ASME-1971, S73 Division 1, Subsection NE
ASME-1974, S75 Division 1, Subsection NF
ASME-1973 Division 2, *Proposed Standard Code for Concrete Reactor Vessels and Containments Issued for Trial Use and Comments*
ASME-1980 Division 2, CC 6000
ASME-1992 1992 Addenda, Division 1, Section XI, Subsection IWL, IWE
31. American Public Health Assoc. (APHA), *Test Methods Sulphides in Water, Standard Methods for the Examination of Water and Waste Water*

32. ASTM Annual Books of ASTM Standards
33. CRSI, MSP-1, *Manual of Standard Practice*
34. ANSI N45.2.5, *Proposed Supplementary Q.A. Requirements for Installation, Inspection and Testing of Structural Concrete and Structural Steel During Construction Phase of Nuclear Power Plants*
35. CRD, Chief of Research and Development Standards, Department of the Army, *Handbook for Concrete and Cement Volume I and II, Corps of Engineers U.S. Army*
36. ACI-349-76, 85, *Code Requirements for Nuclear Safety Related Concrete Structures*
37. AISI, *Specification for design of cold-formed steel structural members*
38. Prairie Island Nuclear Generating Plant Maintenance Procedure D80, Rev. 26, "*Scaffolding, Ladders and Cable Tray Platforms.*"
39. Prairie Island Nuclear Generating Plant Seismic Housekeeping Procedure H41, Rev. 12, "Control of Temporary Structures and Equipment."
40. NSPM (M.D. Wadley) Letter to NRC, "Responses to NRC Requests for Additional Information Dated October 23, 2008 Regarding Application for Renewed Operating Licenses," dated November 21, 2008, ADAMS Accession No. ML083370505.
41. NSPM (J.P. Sorensen) Letter to NRC, "Response to Request for Additional Information on the Prairie Island Nuclear Generating Plant, Units 1 and 2, Resolution of Unresolved Safety Issue A-46 (TAC Nos. M69474 and M69475)," dated November 17, 1997.

A

Equipment Lists

Appendix A contains the equipment lists that were developed as part of equipment selection for the SWEL. Note that because no Rapid Drain-Down items existed for PINGP, there is no Rapid Drain-Down Equipment List.

The following contents are found in Appendix A:

Table A-1, Prairie Island Unit 1 - Base List 1.....	A-2
Table A-2, Prairie Island - Base List 2.....	A-17
Table A-3, Prairie Island Unit 1 - SWEL 1.....	A-18
Table A-4, Prairie Island - SWEL 2.....	A-27

A.1 Equipment Selection – Base List 1

Table A-1 is a list of the equipment coming out of Screen #2 and entering Screen #3 for development of the SWEL 1. The screens utilized for selecting equipment for the SWEL is described in Section 4 of this report. This list of initial equipment is called “Base List 1.”

Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
16143	D1 DSL GEN ENG CRANKCASE PS
16144	D2 DSL GEN ENG CRANKCASE PS
16206	D1 DSL GEN CLNT FROM ENG JCKT HI TRIP TS
16207	D2 DSL GEN CLNT FROM ENG JCKT HI TRIP TS
17700	11 AFP LO DISCH PRESS TRIP PS
17701	22 AFP LO DISCH PRESS TRIP PS
17704	11 AFP LO SUCT PRESS TRIP PS
17776	12 AFWP LO SUCT PRESS TRIP PS
17777	12 AFP LO DISCH PRESS TRIP PS
19603	12 & 14 FCU CLG WTR RTN ORIFICE B-P VLV ES
21005	LOOP A CLG WTR HDR P XMTR
21006	LOOP B CLG WTR HDR P XMTR
21033	12 MD AUX FW PMP DSCH P XMTR
21034	11 TD AUX FW PMP DSCH P XMTR
21230	11 CNTMT FCU CLG WTR OUTL P XMTR
21231	12 CNTMT FCU CLG WTR OUTL P XMTR
21232	13 CNTMT FCU CLG WTR OUTL P XMTR
21233	14 CNTMT FCU CLG WTR OUTL P XMTR
22017	D1 DSL GEN RM TEMP XMTR
22024	121 MD CLG WTR PMP AREA T XMTR B
23122	AUX FW TO 11 STM GEN F XMTR
23127	AUX FW TO 12 STM GEN F XMTR
23128	AUX FW TO 21 STM GEN F XMTR
23129	AUX FW TO 22 STM GEN F XMTR
27145	AUX FW TO 11 STM GEN F ORIF
27147	AUX FW TO 12 STM GEN F ORIF
31211	CHG LN TO 21 REGEN HT EXGR CV
31420	CHG LINE TO 22 RCS LOOP COLD LEG ISOL CV
32138	13 FC CLG WTR RTRN ISOL MV A
32139	13 FC CLG WTR RTRN ISOL MV B
32378	13 FC CLG WTR INLT ISOL MV
33186	D1 DSL GEN WTR SPLY SV
33187	D2 DSL GEN WTR SPLY SV
33199	11 LOOP A MN STM HDR AIR SPLY SV A
33201	11 LOOP A MN STM HDR AIR EXHT SV A
33254	12 LOOP B MN STM HDR AIR SPLY SV B
33255	12 LOOP B MN STM HDR AIR EXHT SV A
33285	11 TD AUX FW PMP RCRC/LUBE OIL CLG SV
33286	12 MD AUX FW PMP RCRC/LUBE OIL CLG SV
33371	11 FAN COIL UNIT DSCH TO CONTM DOME DMPR SV
33372	11 FAN COIL UNIT NORM DSCH TO GAP & STRUC DMPR S

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Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
33373	12 FAN COIL UNIT DSCH TO CONTM DOME DMPR SV
33374	12 FAN COIL UNIT NORM DSCH TO GAP & STRUC DMPR S
33375	13 FAN COIL UNIT DSCH TO CONTM DOME DMPR SV
33376	13 FAN COIL UNIT NORM DSCH TO GAP & STRUC DMPR S
33377	14 FAN COIL UNIT DSCH TO CONTM DOME DMPR SV
33378	14 FAN COIL UNIT DSCH TO GAP & STRUC DMPR SV
33644	D1 DSL GEN AIR STRT SV A
33646	D2 DSL GEN AIR STRT SV A
33693	11 SCVNG & COMBTN AIR DMPR SV A
33694	11 CLASS I ROOF EXHT FAN DMPR SV
33702	121 CONT RM AIR HNDLR OA SPLY DMPR SV
33704	122 CONT RM AIR HNDLR DSCH DMPR SV A
33709	121 CONT RM PAC FLTR SPLY DMPR SV
33711	122 CONT RM PAC FLTR SPLY SV
33821	122 CONT RM AIR HNDLR DSCH DMPR SV B
33828	11 SCVNG & COMBUSTION AIR DMPR SV B
33987	121 DSL GEN RM AIR DMPR SV
37201	11 & 13 FCU CLG WTR RTN ORIF B-P SV
37203	12 & 14 FCU CLG WTR RTN ORIF B-P SV
55000	D1 DSL GEN GAUGE PANEL (DGP)
55300	D1 DSL GEN ENG/GEN PANEL (EGP)
55400	D1 DSL GEN AUX CONT PNL
55410	D1 REMOTE CONTROLS ISOLATION PANEL
55500	D2 DSL GEN GAUGE PANEL (DGP)
55800	D2 DSL GEN ENG/GEN PANEL (EGP)
57303	121 CONT RM WTR CHLLR LCL CONT PNL
57304	122 CONT RM WTR CHLLR LCL CONT PNL
70300	12 DD CLWP LCL PNL
70385	121 SFGDS TRAVELING SCR N DIFF CONT PNL
70386	122 SFGDS TRAVELING SCR N DIFF CONT PNL
032-011	121 D1 DIESEL GENERATOR EXHAUST FAN
032-012	122 DIESEL GENERATOR ROOM EXHAUST FAN
032-041	121 D1 DIESEL GENERATOR SUPPLY FAN
032-042	122 D2 DIESEL GENERATOR SUPPLY FAN
032-141	121 RELAY & COMPUTER ROOMS RETURN FAN
032-231	121 D1 DIESEL GENERATOR OUTSIDE EXHAUST FAN
032-232	122 D2 DIESEL GENERATOR OUTSIDE EXHAUST FAN
032-292	122 CONT RM CLEAN-UP FAN
034-011	D1 DSL GEN
034-021	D2 DIESEL GENERATOR
045-271	121 DSL GEN OIL STOR TK SUBMERSIBLE PUMP
045-273	123 DSL GEN OIL STOR TK SUBMERSIBLE PUMP
045-301	121 DSL CLG WTR PMP OIL STOR TK SUBMERSIBLE PMP
045-302	122 DSL CLG WTR PMP OIL STOR TK SUBMERSIBLE PMP
045-591	121 CONTROL ROOM CHILLED WATER PUMP
045-592	122 CONTROL ROOM CHILLED WATER PUMP
046-031	121 D1 DIESEL GENERATOR STARTUP AIR RECEIVER
046-031A	D1 DSL GEN START-UP AIR RCVR A

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Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
046-032	122 D2 DIESEL GENERATOR STARTUP AIR RECEIVER
053-201	121 D1 DIESEL GENERATOR FUEL OIL DAY TANK
053-201	D1 DSL GEN FUEL OIL DAY TANK
053-202	122 D2 DIESEL GENERATOR FUEL OIL DAY TANK
053-221	121 DIESEL GENERATOR OIL STORAGE TANK
053-223	123 DIESEL GENERATOR OIL STORAGE TANK
053-251	121 COOLING WATER PUMP DIESEL OIL STORAGE TANK
053-252	122 COOLING WATER PUMP DIESEL OIL STORAGE TANK
053-321	12 COOLING WATER PUMP DIESEL OIL DAY TANK
053-321	12 DD CLG WTR PMP DSL OIL DAY TNK
053-381	121 CONTROL ROOM CHILLED WATER EXPANSION TANK
053-382	122 CONTROL ROOM CHILLED WATER EXPANSION TANK
053-382	122 CONT RM CHLD WTR EXPN TNK
053-481	121 D1 DIESEL GENERATOR EXPANSION TANK
053-482	122 D2 DIESEL GENERATOR EXPANSION TANK
067-011	121 SAFEGUARD TRAVELING WATER SCREEN
067-012	122 SAFEGUARD TRAVELING WATER SCREEN
069-161	121 D1 DIESEL GENERATOR AIR INTAKE FILTER
069-162	122 D2 DIESEL GENERATOR AIR INTAKE FILTER
069-242	122 CONT RM PAC FLTR
074-031	121A RELAY ROOM FAN-COIL UNIT
074-032	121B RELAY ROOM FAN-COIL UNIT
074-033	122A RELAY ROOM FAN-COIL UNIT
074-034	122B RELAY ROOM FAN-COIL UNIT
075-011	121 CONTROL ROOM WATER CHILLER
075-012	122 CONTROL ROOM WATER CHILLER
076-021	121 CONTROL ROOM AIR HANDLER
076-022	122 CONTROL ROOM AIR HANDLER
078-011	121 D1 DIESEL GENERATOR EXHAUST MUFFLER
078-012	122 D2 DIESEL GENERATOR EXHAUST MUFFLER
078-021	121 D1 DIESEL GENERATOR AIR INTAKE SILENCER
078-022	122 D2 DIESEL GENERATOR AIR INTAKE SILENCER
1 CRDM/XFMR	CRDM MAIN CONTROL TRANSFORMER
101/XFMR	101 TRANSFORMER
102/XFMR	102 TRANSFORMER
11 BATT	11 STATION BATTERY
11 BATT	11 STATION BATTERY
11 BATT CHG	11 BATTERY CHARGER
11 BATT CHG	11 BATTERY CHARGER
11 BATT CHG/XFM	11 BATTERY CHARGER TRANSFORMER
11 IBA/XFMR	INTERRUPTABLE BUS AUX TRANSFORMER
11 INV	11 INVERTER
110BT/PT	110 BT POTENTIAL TRANSFORMER
111M/XFMR	111M TRANSFORMER
112M/XFMR	112M TRANSFORMER
113-011	12 CL PUMP DIESEL START-UP AIR COMPRESSOR
117-111	11 AUXILIARY FEEDWATER PUMP LUBE OIL COOLER
117-112	12 AUXILIARY FEEDWATER PUMP LUBE OIL COOLER

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Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
117-121	12 CL PUMP GEAR OIL COOLER
11M BAT CHG/XFM	11 MOBILE BATTERY CHARGER TRANSFORMER
11MR	11 MISCELLANEOUS RELAY RACK
11RM	RADIATION MONITORING RACK 11RM
12 BATT	12 BATTERY
12 BATT CHG	12 BATTERY CHARGER
12 BATT CHG/XFM	12 BATTERY CHARGER TRANSFORMER
12 INV	12 INVERTER
120BT/PT	120BT POTENTIAL TRANSFORMER
121M/XFMR	121M TRANSFORMER
121MR	121 MISCELLANEOUS RELAY RACK
121SR	121 SEISMIC RECORDER SYSTEM RACK
122M/XFMR	122M TRANSFORMER
122MR	122 MISCELLANEOUS RELAY RACK
123MR	123 MISCELLANEOUS RELAY RACK
124MR	124 MISCELLANEOUS RELAY RACK
125MR	125 MISCELLANEOUS RELAY RACK
126MR	126 MISCELLANEOUS RELAY RACK
12MR	12 MISCELLANEOUS RELAY RACK
13 INV	13 INVERTER
132-141	121 RELAY ROOM RETURN FAN
132-281	11 SCREENHOUSE ROOF EXHAUST FAN
132-291	11 SCREENHOUSE DIESEL COOLING SUPPLY FAN
135-021	11 RCP SEAL WATER RETURN HEAT EXCHANGER
135-101	12 CL PUMP DIESEL JACKET CLG HX
135-111	REGEN HT EX
13MR	13 MISCELLANEOUS RELAY RACK
14 INV	14 INVERTER
145-041	11 CHG PUMP
145-042	12 CHG PUMP
145-071	11 SI PMP
145-122	12 CC PMP
145-201	11 TD AFW PUMP
145-331	12 MD AFW PUMP
145-392	12 DD CLP
145-821	12 CL PUMP CNSTNT LUBE OIL PUMP
146-011	12 CL PUMP DIESEL START-UP AIR RECEIVERS
14MR	14 MISCELLANEOUS RELAY RACK
15 INV	15 INVERTER
15-2/CT1	D1 EMERG GEN CURRENT TRANSFORMER
1-52/RTA	A - TRAIN REAC TRIP BREAKER
1-52/RTB	B - TRAIN REAC TRIP BREAKER
153-011	11 PRESSURIZER RELIEF TANK
153-021	11 VOLUME CONTROL TANK
153-081	RFLG WTR STG TK
15-5/CT1	11 CC PUMP CURRENT TRANSFORMER
15-5/CT2	11 CC PUMP CURRENT TRANSFORMER
15-6/CT1	101 STA AUX XFMR CURRENT TRANSFORMER

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Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
15-6/CT2	101 STA AUX XFMR CURRENT TRANSFORMER
158-011	11 COOLING WATER STRAINER
16-1/CT1	12 AFW PUMP CURRENT TRANSFORMER
16-1/CT2	12 AFW PUMP CURRENT TRANSFORMER
16-2/CT1	102 STA AUX XFMR CURRENT TRANSFORMER
16-2/CT2	102 STA AUX XFMR AURRENT TRANSFORMER
16-3/CT1	12 CC PUMP CURRENT TRANSFORMER
16-3/CT2	12 CC PUMP CURRENT TRANSFORMER
16-7/CT1	D2 EMERG GEN CURRENT TRANSFORMER
169-031	11 SEAL WTR INJ
169-032	12 SEAL WTR INJ
169-061	11 SEAL WTR INJ
169-062	12 SEAL WTR INJ
17 INV	17 INVERTER
174-011	11 CNTM FAN COIL UNIT
174-012	12 CONTAINMENT FAN COIL UNIT
174-013	13 CNTM FAN COIL UNIT
174-014	14 CONTAINMENT FAN COIL UNIT
174-031	15 SAFEGUARD SWITCHGEAR FAN-COIL UNIT (4160V)
174-032	16 SAFEGUARD SWITCHGEAR FAN-COIL UNIT (4160V)
174-051	12 AUXILIARY FEEDWATER PUMP MOTOR FAN COIL UNIT
174-131	11 CHARGING PUMP MOTOR FAN-COIL UNIT
174-132	12 CHARGING PUMP MOTOR FAN-COIL UNIT
174-161	101 SAFEGUARD SWITCHGEAR FAN-COIL UNIT
174-162	102 SAFEGUARD SWITCHGEAR FAN-COIL UNIT
174-163	102A SAFEGUARD SWITCHGEAR FAN-COIL UNIT
18 INV	18 INVERTER
1AMR1	MISCELLANEOUS RELAY RACK 1AMR1
1ARP1	REACTOR PROTECTION RELAY RACK 1ARP1
1ARP2	REACTOR PROTECTION RELAY RACK 1ARP2
1ARP3	REACTOR PROTECTION RELAY RACK 1ARP3
1ARP4	REACTOR PROTECTION RELAY RACK 1ARP4
1ARP5	REACTOR PROTECTION RELAY RACK 1ARP5
1ASG1	SAFEGUARD RELAY RACK 1ASG1
1ASG2	SAFEGUARD RELAY RACK 1ASG2
1B1	PROCESS PROTECTION RACK 1B1
1B2	PROCESS PROTECTION RACK 1B2
1BMR1	MISCELLANEOUS RELAY RACK 1BMR1
1BRP1	REACTOR PROTECTION RELAY RACK 1BRP1
1BRP2	REACTOR PROTECTION RELAY RACK 1BRP2
1BRP3	REACTOR PROTECTION RELAY RACK 1BRP3
1BRP4	REACTOR PROTECTION RELAY RACK 1BRP4
1BRP5	REACTOR PROTECTION RELAY RACK 1BRP5
1BSG1	SAFEGUARD RELAY RACK 1BSG1
1BSG2	SAFEGUARD RELAY RACK 1BSG2
1CVCS1	PROCESS CONTROL RACK 1CVC1
1CVCS2	PROCESS CONTROL RACK 1CVC2
1DG-3	D1 JACKET CLNT HTR RELIEF

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Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
1FE-115	11 REAC CLNT PMP SL WTR INJ F ORIF
1FE-116	12 REAC CLNT PMP SL WTR INJ F ORIF
1FE-820	11 AUX FEEDWATER VLV MS-20-4 OUTL FE
1FI-115A	11 REAC CLNT PMP SL WTR INJ FI
1FI-116A	12 REAC CLNT PMP SL WTR INJ FI
1FT-115	11 REAC CLNT PMP SL WTR INJ F XMTR
1FT-116	12 REAC CLNT PMP SL WTR INJ F XMTR
1FT-176	12 RCP SEAL LEAKOFF HI ACC FLOW XMTR
1FT-178	12 RCP SEAL LEAKOFF FLOW XMTR
1FT-464	MN STM FR 11 STM GEN CHNNL I RED F XMTR
1FT-465	MN STM FR 11 STM GEN CHNNL II WHITE F XMTR
1FT-474	MN STM FR 12 STM GEN CHNNL III BLU F XMTR
1FT-475	MN STM FR 12 STM GEN CHNNL IV YEL F XMTR
1FT-476	12 STM GEN LOOP B FW INLT F XMTR
1FT-494	11 STM GEN LOOP A HI ACC STM F XMTR
1FW	PROCESS CONTROL RACK 1FW
1HC-431K	1 REAC CLNT LOOP PRZR PRESS CONT STA
1HC-468	1 MN STM SAF RLF TO ATM LOOP A CONT STA
1HC-478	MN STM SAF RLF TO ATM LOOP B CONT STA
1LC-141A	VOL CONTROL TANK LEVEL CONTROLLER
1LC-141B	VOL CONTROL TANK LEVEL SINGLE ALARM
1LQ-141	11 VOL CONT TNK LVL PWR SPLY
1LQ-426	PRESSURIZER LEVEL XMTR PWR SPLY
1LQ-428	PRESSURIZER LEVEL XMTR PWR SPLY
1LQ-461	STM GEN LEVEL XMTR PWR SPLY
1LQ-471	STM GEN LEVEL XMTR PWR SPLY
1LR-428	1 REAC PRZR LVL RCDR
1LT-112	11 VOL CONT TNK LVL XMTR
1LT-141	11 VOL CONT TNK LVL XMTR
1LT-426	1 REAC CLNT LOOP PRZR (CHNNL I-RED) LVL XMTR
1LT-428	1 REAC CLNT LOOP PRZR (CHNNL III-BLU) LVL XMTR
1LT-461	11 STM GEN LOOP A CHNNL I-RED LVL XMTR
1LT-471	12 STM GEN LOOP B CHNNL IV YEL LVL XMTR
1LT-487	11 STM GEN LOOP A WR LVL XMTR
1LT-488	12 STM GEN LOOP B WR LVL XMTR
1LT-751	11 RX VSL HEAD UPPER RNG TRN A D/P XMTR
1LT-752	11 RX VSL HEAD FULL RNG TRN A D/P XMTR
1LT-753	11 RX VSL HEAD DYNAMIC RNG TRN A D/P XMTR
1LT-761	12 RX VSL HEAD UPPER RNG TRN B D/P XMTR
1LT-762	12 RX VSL HEAD FULL RNG TRN B D/P XMTR
1LT-763	12 RX VSL HEAD DYNAMIC RNG TRN B D/P XMTR
1LT-920	11 RWST LVL XMTR
1LT-921	11 RWST LVL XMTR
1NE-51	EXCORE DETECTION TRN A DETECTOR ASSY
1NE-52	EXCORE DETECTION TRN B DETECTOR ASSY
1NI-51A	EXCORE DETECTION TRN A SHUTDOWN MONITOR
1NI-52A	EXCORE DETECTION TRN B SHUTDOWN MONITOR
1NM-51	EXCORE DETECTION TRN A AMPLIFIER

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Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
1NM-51A	EXCORE DETECTION TRN A OPTICAL ISOLATOR
1NM-52	EXCORE DETECTION TRN B AMPLIFIER
1NR1	NUCLEAR INSTRUMENTATION RACK 1NR1
1NR2	NUCLEAR INSTRUMENTATION RACK 1NR2
1NR3	NUCLEAR INSTRUMENTATION RACK 1NR3
1NR4	NUCLEAR INSTRUMENTATION RACK 1NR4
1NU-51A	EXCORE DETECTION TRN A RACK MTD SIGNAL PROCESSOR
1NU-51B	EXCORE DETECTION TRN A WALL MTD SIGNAL PROCESSOR
1NU-52A	EXCORE DETECTION TRN B RACK MTD SIGNAL PROCESSOR
1PLP	PROCESS CONTROL RACK 1PLP
1PQ-429	1 REAC CLNT LOOP PRZR (CHNNL I-RED) P PWR SPLY
1PQ-431	1 REAC CLNT LOOP PRZR (CHNNL III-BLU) P PWR SPLY
1PQ-468	STEAM PRESSURE TRANSMITTER PWR SPLY
1PQ-478	STEAM PRESSURE TRANSMITTER PWR SPLY
1PR-429	1 REAC CLNT LOOP PRZR PRESS RCDR
1PR-468	11 STM GEN LOOP A STM PRESS RCDR (3 PEN)
1PT-139	11 REAC CLNT VOL CONT TNK RLF P XMTR
1PT-173	11 REAC CLNT PMP SHFT SL D/P XMTR
1PT-174	12 REAC CLNT PMP NO 1 SL D/P XMTR
1PT-429	1 REAC CLNT LOOP PRZR (CHNNL I-RED) P XMTR
1PT-431	1 REAC CLNT LOOP PRZR (CHNNL III-BLU) P XMTR
1PT-468	11 STM GEN LOOP A (CHNNL I-RED) P XMTR
1PT-469	11 STM GEN LOOP A (CHNNL II-WHI) P XMTR
1PT-478	12 STM GEN LOOP B (CHNNL III-BLU) P XMTR
1PT-479	12 STM GEN LOOP B (CHNNL IV-YEL) P XMTR
1PT-482	11 STM GEN LOOP A (CHNNL III-BLU) P XMTR
1PT-483	12 STM GEN LOOP B (CHNNL I-RED) P XMTR
1PT-709	LOOP A RCS PRESS XMTR
1PT-710	LOOP B RCS PRESS XMTR
1PZRHTRA/CT A	1 PRZR HTR GRP A CURRENT XFMR A
1PZRHTRA/CT C	1 PRZR HTR GRP A CURRENT XFMR C
1PZRHTRA/PT A	1 PRZR HTR GRP A POTENTIAL XFMR A
1PZRHTRA/PT C	1 PRZR HTR GRP A POTENTIAL XFMR C
1PZRHTRA/XFMR	1 PRZR HTR GRP A TRANSFORMER
1PZRHTRB/CT A	1 PRZR HTR GRP B CURRENT XFMR A
1PZRHTRB/CT C	1 PRZR HTR GRP B CURRENT XFMR C
1PZRHTRB/PT A	1 PRZR HTR GRP B POTENTIAL XFMR A
1PZRHTRB/PT C	1 PRZR HTR GRP B POTENTIAL XFMR C
1PZRHTRB/XFMR	1 PRZR HTR GRP B TRANSFORMER
1R1	PROCESS PROTECTION RACK 1R1
1R2	PROCESS PROTECTION RACK 1R2
1RCS1	PROCESS CONTROL RACK 1RCS1
1RCS2	PROCESS CONTROL RACK 1RCS2
1TT-450A	R/E RCS TEMPERATURE TH
1TT-450B	R/E RCS TEMPERATURE TC
1TT-451A	R/E RCS TEMPERATURE TH
1TT-451B	R/E RCS TEMPERATURE TC
1W1	PROCESS PROTECTION RACK 1W1

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Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
CD-34204	121 RLY RM/COMP RM FIRE PREV ISOL RTRN CD
CL-25-1	12 DDCLP JACKET HX RELIEF
CL-57-3	11 CONTM FAN COIL-RELIEF
CL-57-4	12 CONTM FAN COIL-RELIEF
CL-57-5	13 CONTM FAN COIL-RELIEF
CL-57-6	14 CONTM FAN COIL-RELIEF
CV-31059	11 AFWP MN STM THTL CV
CV-31084	11 STM GEN MN STM SAF RLF TO ATM CV
CV-31089	12 STM GEN MN STM SAF RLF TO ATM CV
CV-31098	11 LOOP A MN STM HDR ISOL CV
CV-31099	12 LOOP B MN STM HDR ISOL CV
CV-31153	11 TD AUX FW PMP RCRC/LUBE OIL CLG CV
CV-31154	12 MD AUX FW PMP RCRC/LUBE OIL CLG CV
CV-31205	11 LTDN DVRSN VCT/HLD-UP TNKS CV
CV-31226	1 REAC CLNT LOOP PRZR LTDN LN ISOL LCV A
CV-31231	1 PRZR PORV B CV
CV-31232	1 PRZR PORV A CV
CV-31255	1 REAC CLNT LOOP PRZR LTDN LN ISOL LCV 2
CV-31334	11/12 RCP SEAL BYPASS RETURN CV
CV-31335	11 REAC CLNT PMP SL WTR OUTL ISOL CV
CV-31336	12 REAC CLNT PMP SL WTR OUTL ISOL CV
CV-31423	12 DDCLP JCKT CLR OUTL CV
CV-31505	D1 DSL GEN CLG WTR SPLY CV
CV-31506	D2 DSL GEN CLG WTR SPLY CV
CV-31652	11 CLG WTR STRNR BCKWSH CV
CV-31759	122 N RLY RM FAN COIL TRN B CV
CV-31760	121 N RLY RM FAN COIL TRN A CV
CV-31761	122 S RLY RM FAN COIL TRN B CV
CV-31768	122 CONT RM A/C CHL WTR RTRN CV
CV-31769	121 CONT RM CHLLR UNIT CDSR CLG WTR OUTL TCV
CV-31785	122 CONT RM CHLLR UNIT CDSR CLG WTR OUTL TCV
CV-31786	121 CONT RM A/C CHL WTR RTRN CV
CV-31953	D1 DSL GEN AIR STRT CV A
CV-31954	D1 DSL GEN AIR STRT CV B
CV-31955	D2 DSL GEN AIR STRT CV A
CV-31956	D2 DSL GEN AIR STRT CV B
CV-31998	11 TD AFW PMP STM BLOCK CV
CV-39201	11 & 13 FCU CLG WTR RTN B-P CV
CV-39203	12 & 14 FCU CLG WTR RTN ORIF B-P CV
CV-39401	11/13 FCU CLG WTR SUPPLY CV
CV-39402	11/13 FCU CHILLED WTR SUPPLY CV
CV-39403	12/14 FCU CLG WTR SUPPLY CV
CV-39404	12/14 FCU CHILLED WTR SUPPLY CV
CV-39405	11 SHROUD CLG COILS TR A CHILLED WTR SUPPLY CV
CV-39406	12 SHROUD CLG COILS TR B CHILLED WTR SUPPLY CV
CV-39407	11 SHROUD CLG COILS TR A CHILLED WTR RETURN CV
CV-39408	12 SHROUD CLG COILS TR B CHILLED WTR RETURN CV
CV-39409	12/14 FCU CLG WTR RETURN CV

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Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
CV-39410	12/14 FCU CHILLED WTR RETURN CV
CV-39411	11/13 FCU CLG WTR RETURN CV
CV-39412	11/13 FCU CHILLED WTR RETURN CV
D-1	CONTROL PANEL D-1
D1 CFRP/XFMR	D1 CLEAN FUEL RTRN PMP TRANSFORMER
D1/GEN RLY PNL	D1 EMERG GEN RELAY PNL
D1/GND XFMR	NEUTRAL GROUNDING TRANSFORMER
D1-3	GENERATOR RELAY BOX D1-3
E-1	CONTROL PANEL E-1
EM-A1	EVENT MONITORING RACK EM-A1
EM-A3	EVENT MONITORING RACK EM-A3
EM-B1	EVENT MONITORING RACK EM-B1
EM-B3	EVENT MONITORING RACK EM-B3
F-1	CONTROL PANEL F-1
G-1	CONTROL PANEL G-1
MCC 1A1	MOTOR CONTROL CENTER 1A BUS 1
MCC 1A2	MOTOR CONTROL CENTER 1A BUS 2
MCC 1AA2	MOTOR CONTROL CENTER 1AA BUS 2
MCC 1AB1	MOTOR CONTROL CENTER 1AB BUS 1
MCC 1AB2	MOTOR CONTROL CENTER 1AB BUS 2
MCC 1AC1	MOTOR CONTROL CENTER 1AC BUS 1
MCC 1AC2	MOTOR CONTROL CENTER 1AC BUS 2
MCC 1JA1	MOTOR CONTROL CENTER 1JA BUS 1
MCC 1JA2	MOTOR CONTROL CENTER 1JA BUS 2
MCC 1K1	MOTOR CONTROL CENTER 1K BUS 1
MCC 1K2	MOTOR CONTROL CENTER 1K BUS 2
MCC 1KA2	MOTOR CONTROL CENTER 1KA BUS 2
MCC 1L1	MOTOR CONTROL CENTER 1L BUS 1
MCC 1L2	MOTOR CONTROL CENTER 1L BUS 2
MCC 1LA1	MOTOR CONTROL CENTER 1LA BUS 1
MCC 1LA2	MOTOR CONTROL CENTER 1LA BUS 2
MCC 1M1	MOTOR CONTROL CENTER 1M BUS 1
MCC 1M2	MOTOR CONTROL CENTER 1M BUS 2
MCC 1MA1	MOTOR CONTROL CENTER 1MA BUS 1
MCC 1MA2	MOTOR CONTROL CENTER 1MA BUS 2
MCC 1R1	MOTOR CONTROL CENTER 1R BUS 1
MCC 1S1	MOTOR CONTROL CENTER 1S BUS 1
MCC 1T1	MOTOR CONTROL CENTER 1T BUS 1
MCC 1T2	MOTOR CONTROL CENTER 1T BUS 2
MCC 1T2/XFR SW	MCC 1T2 XFR SW
MCC 1TA1	MOTOR CONTROL CENTER 1TA BUS 1
MCC 1TA2	MOTOR CONTROL CENTER 1TA BUS 2
MCC 1X1	MOTOR CONTROL CENTER 1X BUS 1
MCC 1X2	MOTOR CONTROL CENTER 1X BUS 2
MTR 111C-21	11 COOLING WATER STRAINER
MTR 111E-45	11/21 AFW PUMPS UNIT COOLER
MTR 111F-31	11 INVERTER (INSTR BUS II-WHI)
MTR 111F-32	13 INVERTER (INSTR BUS III-BLU)

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Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
MTR 111J-51	121-N(U2) & 121-S(U1) RELAY ROOM UNIT COOLERS
MTR 112G-12	121 CONTROL ROOM CHILLED WATER PUMP
MTR 121J-51	122-N(U2) & 122-S(U1) RELAY ROOM UNIT COOLERS
MTR 122G-12	122 CONTROL ROOM CHILLED WATER PUMP
MV-32016	11 S/G STEAM SUPPLY TO 11 TD AFW PUMP MV
MV-32017	LOOP B MN STM TO 11 TD AFWP MV
MV-32025	11 TD AFW PUMP SUCT CLG WTR SUPPLY MV
MV-32027	12 MD AFW PUMP SUCT CLG WTR SUPPLY MV
MV-32031	1 TURB BLDG CLG WTR HDR MV
MV-32034	121 CLWP DSCH HDR MV A
MV-32035	121 CLWP DSCH HDR MV B
MV-32036	121 CLWP DSCH HDR MV C
MV-32037	121 CLWP DSCH HDR MV D
MV-32047	12 MSIV BYPASS MV
MV-32061	11 VOL CONT TNK TO CHG PMPs ISOL MV
MV-32077	SUMP B TO 11 RHR PMP TRN A (OUTSIDE) MV
MV-32132	11 FC CLG WTR RTRN ISOL MV A
MV-32133	11 FC CLG WTR RTRN ISOL MV B
MV-32135	12 FC CLG WTR RTRN ISOL MV A
MV-32136	12 FC CLG WTR RTRN ISOL MV B
MV-32138	13 FC CLG WTR RTRN ISOL MV A
MV-32139	13 FC CLG WTR RTRN ISOL MV B
MV-32141	14 FC CLG WTR RTRN ISOL MV A
MV-32142	14 FC CLG WTR RTRN ISOL MV B
MV-32145	11 CC HX CLG WTR INLET MV
MV-32146	12 CC HX CLG WTR INLET MV
MV-32166	1 REAC EXCS LTDN LINE ISOL MV A
MV-32199	1 REAC EXCS LTDN LINE ISOL MV B
MV-32238	11 TD AUX FW TO 11 STM GEN MV
MV-32239	11 TD AUX FW TO 12 STM GEN MV
MV-32242	11/12 AUX FW TO 11 STM GEN ISOL MV
MV-32243	11/12 AUX FW TO 12 STM GEN ISOL MV
MV-32322	11 AUX BLDG CLG WTR RTRN HDR MV
MV-32332	11 AUX BLDG CLG WTR RTRN HDR ISOL MV
MV-32371	11/12 TURB OIL COOLERS CLG WTR BYPASS MV
MV-32377	11 FC CLG WTR INLT ISOL MV
MV-32378	13 FC CLG WTR INLT ISOL MV
MV-32379	12 FC CLG WTR INLT ISOL MV
MV-32380	14 FC CLG WTR INLT ISOL MV
MV-32381	12 AFWP DSCH TO 11 STM GEN MV
MV-32382	12 AFWP DSCH TO 12 STM GEN MV
PNL 11	DISTRIBUTION PANEL 11
PNL 111	INSTR BUS II PANEL (WHI) 111
PNL 1111	AC DISTRIBUTION CAB (WHI) 1111
PNL 1112	AC DISTRIBUTION CAB (RED) 1112
PNL 1113	AC DISTRIBUTION CAB (BLUE) 1113
PNL 1113-16	127 MISCELLANEOUS RELAY RACK
PNL 1114	AC DISTRIBUTION CAB (YEL) 1114

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Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
1W2	PROCESS PROTECTION RACK 1W2
1Y1	PROCESS PROTECTION RACK 1Y1
1Y2	PROCESS PROTECTION RACK 1Y2
AC11	BOP ANNUNCIATOR CABINET AC11
AC12	BOP ANNUNCIATOR CABINET AC12
AC13	BOP ANNUNCIATOR CABINET AC13
AC14	BOP ANNUNCIATOR CABINET AC14
AC15	BOP ANNUNCIATOR CABINET AC15
AC16	BOP ANNUNCIATOR CABINET AC16
B-1	CONTROL PANEL B-1
B110/AUX CAB	BUS 110 480V AUX RLY CAB
B120/AUX CAB	BUS 120 480V AUX RLY CAB
B15 LOGIC-1	BUS 15 LOGIC CAB 1
B15 LOGIC-2	BUS 15 LOGIC CAB 2
B15/LOAD SEQ CAB	BUS 15 SAFEGUARDS LOAD SEQUENCER CABINET
B15/SWGR	BUS 15 4.16KV SWITCHGEAR
B16 AUX RELAY CAB	BUS 16 AUX RELAY CABINET
B16 LOGIC-1	BUS 16 LOGIC CAB 1
B16 LOGIC-2	BUS 16 LOGIC CAB 2
B16/LOAD SEQ CAB	BUS 16 SAFEGUARDS LOAD SEQUENCER CABINET
B16/SWGR	BUS 16 4.16KV SWITCHGEAR
BUS 111	BUS 111 480V SWITCHGEAR
BUS 112	BUS 112 480V SWITCHGEAR
BUS 121	BUS 121 480V SWITCHGEAR
BUS 122	BUS 122 480V SWITCHGEAR
BUS 13	BUS 13 4.16KV SWITCHGEAR
BUS 14	BUS 14 4.16KV SWITCHGEAR
BUS 15	4.16KV SFGDS BUS 15
BUS 16	4.16KV SFGDS BUS 16
C-1	CONTROL PANEL C-1
CD-34049	121/122 DSL GEN RM OUTS AIR CD
CD-34072	11 FCU DISCH TO CNTMT DOME CD
CD-34073	11 FCU NORM DISCH TO GAP & STRUCT CD
CD-34074	12 FCU DISCH TO CNTMT DOME CD
CD-34075	12 FCU NORM DISCH TO GAP & STRUCT CD
CD-34076	13 FCU DISCH TO CNTMT DOME CD
CD-34077	13 FCU NORM DISCH TO GAP & STRUCT CD
CD-34078	14 FCU DISCH TO CNTMT DOME CD
CD-34079	14 FCU NORM DISCH TO GAP & STRUCT CD
CD-34136	11 SCVNG & COMBTN AIR CD
CD-34137	11 CLASS I ROOF EXHT FAN DSCH CD
CD-34142	121 CONT RM AIR HNDLR OA SPLY CD
CD-34143	121 CONT RM AIR HNDLR DSCH CD
CD-34144	122 CONT RM AIR HNDLR DSCH CD
CD-34145	122 CONT RM AIR HNDLR OA SPLY CD
CD-34179	121 CONT RM PAC FLTR SPLY CD
CD-34181	122 CONT RM PAC FLTR SPLY CD
CD-34203	121 RLY RM/COMP RM FIRE PREV ISOL SPLY CD

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Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
PNL 1114-14	128 MISCELLANEOUS RELAY RACK
PNL 112	INSTR BUS I PANEL (RED) 112
PNL 113	INSTR BUS III PANEL (BLUE) 113
PNL 114	INSTR BUS IV PANEL (YEL) 114
PNL 115	ROD POSITION DISC SW PNL 115
PNL 116	NON-INTERRUPTABLE PANEL 116
PNL 117	INTERRUPTABLE PANEL 117
PNL 12	DISTRIBUTION PANEL 12
PNL 131	DC DISTRIBUTION PANEL 131
PNL 132	AC DISTRIBUTION PANEL 132
PNL 132-7	11/21 AFW PUMPS UNIT COOLER
PNL 133	AC DISTRIBUTION PANEL 133
PNL 133/XFMR	DIST PNL 133 XFMR
PNL 134	AC DISTRIBUTION PANEL 134
PNL 135	AC DISTRIBUTION PANEL 135
PNL 136	AC DISTRIBUTION PANEL 136
PNL 136/XFMR	DIST PNL 136 XFMR
PNL 137	AC DISTRIBUTION PANEL 137
PNL 15	NUCLEAR DISTRIBUTION PANEL 15
PNL 151	DISTRIBUTION PANEL 151
PNL 152	DISTRIBUTION PANEL 152
PNL 153	DISTRIBUTION PANEL 153
PNL 16	NUCLEAR DISTRIBUTION PANEL 16
PNL 161	DC DISTRIBUTION PANEL 161
PNL 162	DC DISTRIBUTION PANEL 162
PNL 163	DC DISTRIBUTION PANEL 163
PNL 17	DC DISTRIBUTION PANEL 17
PNL 18	DC DISTRIBUTION PANEL 18
PNL 191	DC DISTRIBUTION PANEL 191
PNL 1EM	DISTRIBUTION PANEL 1EM
PNL 1EMA	DISTRIBUTION PANEL 1EMA
PNL 1EMA-11	ICCM UNIT 1 TRAIN A MICROPROCESSOR 1LM-750
PNL 1EMA-5	EXCORE DET AMPLIFIER 1NM-51
PNL 1EMA-8	TB A1688 ICCM UNIT 1 TRAIN A PLASMA DISPLAY
PNL 1EMB	DISTRIBUTION PANEL 1EMB
PNL 1EMB-11	ICCM UNIT 1 TRAIN B MICROPROCESSOR 1LM-760
PNL 1EMB-3	EXCORE DET AMPLIFIER 1NM-52
PNL 1EMB-8	TB 2889 ICCM UNIT 1 TRAIN B PLASMA DISPLAY
RC-10-1	PRESSURIZER RELIEF VALVE
RC-10-2	PRESSURIZER RELIEF VALVE
RS-21-1	SAFETY VALVE HEADER STM GENERATOR 11
RS-21-10	SAFETY VALVE HEADER STM GENERATOR 12
RS-21-2	SAFETY VALVE HEADER STM GENERATOR 11
RS-21-3	SAFETY VALVE HEADER STM GENERATOR 11
RS-21-4	SAFETY VALVE HEADER STM GENERATOR 11
RS-21-5	SAFETY VALVE HEADER STM GENERATOR 11
RS-21-6	SAFETY VALVE HEADER STM GENERATOR 12
RS-21-7	SAFETY VALVE HEADER STM GENERATOR 12

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Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
RS-21-8	SAFETY VALVE HEADER STM GENERATOR 12
RS-21-9	SAFETY VALVE HEADER STM GENERATOR 12
SA-54-3	D1 DSL GEN MAIN AIR RCVR RELIEF
SA-54-6	D2 DSL GEN MAIN AIR RCVR RELIEF
SA-56-1	12 CLG WTR PUMP - DIESEL STARTING AIR
SV-33133	CLG WTR TO 121 SFGRDS TRVLG SCRNS SV
SV-33134	CLG WTR TO 122 SFGRDS TRVLG SCRNS SV
SV-33186	D1 DSL GEN WTR SPLY SV
SV-33187	D2 DSL GEN WTR SPLY SV
SV-33188	D1 DSL GEN CLNT EXPN TNK FILL SV
SV-33189	D2 DSL GEN CLNT EXPN TNK FILL SV
SV-33199	11 LOOP A MN STM HDR AIR SPLY SV A
SV-33200	11 LOOP A MN STM HDR AIR SPLY SV B
SV-33201	11 LOOP A MN STM HDR AIR EXHT SV A
SV-33202	11 LOOP A MN STM HDR AIR EXHT SV B
SV-33204	12 LOOP B MN STM HDR AIR SPLY SV A
SV-33234	11 REAC CLNT VOL CONT TNK LVL CONT VENT SV
SV-33235	11 REAC CLNT VOL CONT TNK LVL CONT MAN/AUTO SV
SV-33242	D1 DSL GEN AIR STRT VENT SV
SV-33245	D2 DSL GEN AIR STRT VENT SV
SV-33254	12 LOOP B MN STM HDR AIR SPLY SV B
SV-33255	12 LOOP B MN STM HDR AIR EXHT SV A
SV-33256	12 LOOP B MN STM HDR AIR EXHT SV B
SV-33285	11 TD AUX FW PMP RCRC/LUBE OIL CLG SV
SV-33286	12 MD AUX FW PMP RCRC/LUBE OIL CLG SV
SV-33299	11 TD AFW PMP STM BLOCK SV
SV-33323	1 REAC CLNT LOOP PRZR LTDN LN ISOL SV 2
SV-33343	11 CLG WTR STRNR BCKWSH SV
SV-33371	11 FAN COIL UNIT DSCH TO CONTM DOME DMPR SV
SV-33372	11 FAN COIL UNIT NORM DSCH TO GAP & STRUC DMPR S
SV-33373	12 FAN COIL UNIT DSCH TO CONTM DOME DMPR SV
SV-33374	12 FAN COIL UNIT NORM DSCH TO GAP & STRUC DMPR S
SV-33375	13 FAN COIL UNIT DSCH TO CONTM DOME DMPR SV
SV-33376	13 FAN COIL UNIT NORM DSCH TO GAP & STRUC DMPR S
SV-33377	14 FAN COIL UNIT DSCH TO CONTM DOME DMPR SV
SV-33378	14 FAN COIL UNIT DSCH TO GAP & STRUC DMPR SV
SV-33464	12 DD CLG WTR PMP AIR MTR RS SV A
SV-33465	12 DD CLWP AIR MTR LS SV B
SV-33512	1 REAC CLNT LOOP PRZR LTDN LN ISOL SV 1
SV-33578	12 AUX FW PMP MTR UNIT CLR SV
SV-33644	D1 DSL GEN AIR STRT SV A
SV-33645	D1 DSL GEN AIR STRT SV B
SV-33646	D2 DSL GEN AIR STRT SV A
SV-33669	11 REAC CLNT PMP SL WTR OUTL ISOL SV
SV-33670	12 REAC CLNT PMP SL WTR OUTL ISOL SV
SV-33693	11 SCVNG & COMBTN AIR DMPR SV A
SV-33694	11 CLASS I ROOF EXHT FAN DMPR SV
SV-33702	121 CONT RM AIR HNDLR OA SPLY DMPR SV

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Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
SV-33703	121 CONT RM AIR HNDLR DSCH DMPR SV A
SV-33704	122 CONT RM AIR HNDLR DSCH DMPR SV A
SV-33705	122 CONT RM AIR HNDLR OA SPLY DMPR SV
SV-33709	121 CONT RM PAC FLTR SPLY DMPR SV
SV-33711	122 CONT RM PAC FLTR SPLY SV
SV-33716	122 CONT RM CHLLR CLG WTR SV
SV-33717	121 CONT RM CHLLR CLG WTR SV
SV-33774	D2 DSL GEN AIR STRT SV B
SV-33776	12 DD CLWP DSL JCKT CLR OUTL SV
SV-33820	121 CONT RM AIR HNDLR DSCH DMPR SV B
SV-33821	122 CONT RM AIR HNDLR DSCH DMPR SV B
SV-33828	11 SCVNG & COMBUSTION AIR DMPR SV B
SV-33987	D1 & D2 DSL GEN OUTSIDE AIR CD-34049 TRN A S
SV-37022	121 CONT RM HNDLR OA SPLY STM EXCL B SV
SV-37025	122 CONT RM HNDLR OA SPLY STM EXCL A SV
SV-37035	RCS VENT SYS PRZR VENT SV
SV-37036	RCS VENT SYS PRZR VENT SV
SV-37037	RCS VENT SYS REACTOR HEAD VENT SV
SV-37038	RCS VENT SYS REACTOR HEAD VENT SV
SV-37039	RCS VENT SYS TO PRT SV
SV-37040	RCS VENT SYS TO CNTMT ATMOS SV
SV-37091	RCS VENT SYS PRZR VENT SV
SV-37092	RCS VENT SYS PRZR VENT SV
SV-37093	RCS VENT SYS REACTOR HEAD VENT SV
SV-37201	11 & 13 FCU CLG WTR RTN ORIF B-P SV
SV-37203	12 & 14 FCU CLG WTR RTN ORIF B-P SV
SV-37401	11; 13 FCU CLG WTR SUPPLY SV
SV-37402	11; 13 FCU CHILLED WTR SUPPLY SV
SV-37403	12; 14 FCU CLG WTR SUPPLY SV
SV-37404	12; 14 FCU CHILLED WTR SUPPLY SV
SV-37405	11 SHROUD CLG COILS TR A CHILLED WTR SUPPLY SV
SV-37406	12 SHROUD CLG COILS TR B CHILLED WTR SUPPLY SV
SV-37409	12; 14 FCU CLG WTR RETURN SV
SV-37411	11; 13 FCU CLG WTR RETURN SV
SV-37460	UNIT 1 TRAIN A CHILL WTR/CLG WTR ISOL SV
SV-37461	UNIT 1 TRAIN B CHILL WTR/CLG WTR ISOL SV
SV-37462	UNIT 1 TRAIN A CHILL WTR/CLG WTR ISOL SV
SV-37463	UNIT 1 TRAIN B CHILL WTR/CLG WTR ISOL SV
TB 1203	RELAY ROOM AUX RELAY CABINET
TB 1209	RELAY ROOM TERMINAL BOX
TB 1243	TB FOR 12 CHARGING PUMP
TB 1244	TB FOR 11 CHARGING PUMP
TB A1640	11 TD AUX FEEDWATER PUMP RELAY CABINET
VC-1-1	CHARGING PUMP SUCTION FROM RWST
VC-24-1	VOLUME CONTROL TANK RELIEF VALVE
VC-25-1	RC PUMPS DISCH LINE TO SEAL WTR FILTER - RELIEF
VC-26-1	1 REGEN HX LETDOWN LINE OUTLET RELIEF TO PRT
VC-28-1	11 CHG PMP DISCH RELIEF

Table A-1: Prairie Island Unit 1 - Base List 1	
Equipment Tag	Description
VC-28-2	12 CHG PMP DISCH RELIEF
ZH-16-1	121 CHILLER OUTLET - RLF
ZH-16-2	122 CHILLER OUTLET - RLF

A.2 Equipment Selection - Base List 2

Table A-2 is a list of the equipment resulting from Screen #3 and entering Screen #4 for the SFP. The screens utilized for selecting equipment for the SWEL is described in Sections 4 of this report. This list of initial equipment is called “Base List 2,” per the guidance in Reference 1.

Table A-2: Prairie Island – Base List 2	
Equipment Tag	Description
035-011	121 SFP HX
035-012	122 SFP HX
045-101	121 SFP PMP
045-102	122 SFP PMP

A.3 Final SWEL 1

This section provides a list of the final equipment selected for PINGP’s SWEL 1 in Table A-3 below. This table identifies which items were selected for anchorage configuration verification, as well as which items are being deferred due to inaccessibility. The comments column of this table identifies the following selection criteria which were utilized in Screen #4:

- “IPEEE Enhanced” identifies that this equipment was enhanced due to outliers identified during the IPEEE program.
- “New or replaced” identifies this equipment as major new or replacement equipment.
- “Risk Significant” identifies this equipment as risk significant.

Table A-3: Prairie Island Unit 1 – SWEL 1

Equipment Tag	Description	Class ¹	Safety Function ²	System ³	Verify Anchorage?	Deferred?	Comments
22024	121 MD CLG WTR PMP AREA T XMTR B	18	1, 2, 3, 4, 5	ZR			
032-041	121 D1 DSL GEN SPLY FAN	9	1, 2, 3, 4, 5	D1	Yes		
032-292	122 CONT RM CLEAN-UP FAN	9	1, 2, 3, 4, 5	ZN			
046-031A	D1 DSL GEN START-UP AIR RCVR A	21	1, 2, 3, 4, 5	D1	Yes		
053-321	12 DD CLG WTR PMP DSL OIL DAY TNK	21	1, 2, 3, 4, 5	CL	Yes		
053-382	122 CONT RM CHLD WTR EXPN TNK	21	1, 2, 3, 4, 5	ZH	Yes		
069-242	122 CONT RM PAC FLTR	0	1, 2, 3, 4, 5	ZN			
076-022	122 CONT RM AIR HNDLR	10	1, 2, 3, 4, 5	ZN	Yes		
125MR	125 MISC RELAY RACK	20	1, 2, 3, 4, 5	MP			
MV-32034	121 CLWP DSCH HDR MV A	8	1, 2, 3, 4, 5	CL			
SA-54-3	D1 DSL GEN MAIN AIR RCVR RELIEF	7	1, 2, 3, 4, 5	SA			
SV-33694	11 SFGDS SCRNHSE ROOF EXHT FAN CD-34137 SV	8	1, 2, 3, 4, 5	ZR			New or replaced
SV-37025	122 CONT RM AIR HNDLR OA SPLY CD-34145 SV	8	1, 2, 3, 4, 5	ZN			
22017	D1 DSL GEN RM TEMP XMTR	18	1, 2, 3, 4, 5	ZG			

Table A-3: Prairie Island Unit 1 – SWEL 1

Equipment Tag	Description	Class ¹	Safety Function ²	System ³	Verify Anchorage?	Deferred?	Comments
55000	D1 DSL GEN GAUGE PANEL (DGP)	20	1, 2, 3, 4, 5	D1			IPEEE Enhanced
55400	D1 DSL GEN AUX CONT PNL	14	1, 2, 3, 4, 5	D1	Yes		
57304	122 CONT RM CHLR LCL CONT PNL	20	1, 2, 3, 4, 5	ZH			
70300	12 DD CLWP LCL PNL	20	1, 2, 3, 4, 5	CL	Yes		IPEEE Enhanced
032-011	121 D1 DSL GEN EXHT FAN	9	1, 2, 3, 4, 5	ZG	Yes		
034-011	D1 DSL GEN	17	1, 2, 3, 4, 5	D1	Yes		
045-592	122 CONT RM CHLD WTR PMP	5	1, 2, 3, 4, 5	ZH	Yes		
053-201	D1 DSL GEN FUEL OIL DAY TANK	21	1, 2, 3, 4, 5	D1	Yes		
053-481	D1 DSL GEN EXPANSION TANK	21	1, 2, 3, 4, 5	D1			
075-012	122 CONT RM CHLR	11	1, 2, 3, 4, 5	ZH		Yes	IPEEE Enhanced
11 BATT	11 BATTERY (& BATTERY RACK)	15	1, 2, 3, 4, 5	DC	Yes		IPEEE Enhanced
11 BATT CHG	11 BATTERY CHARGER	16	1, 2, 3, 4, 5	DC	Yes	Yes	New or replaced, IPEEE Enhanced
111M/XFMR	111M TRANSFORMER	4	1, 2, 3, 4, 5	EB			Risk significant
112M/XFMR	112M TRANSFORMER	4	1, 2, 3, 4, 5	EB			

Table A-3: Prairie Island Unit 1 – SWEL 1

Equipment Tag	Description	Class ¹	Safety Function ²	System ³	Verify Anchorage?	Deferred?	Comments
117-111	11 TD AFW PMP L-O CLR	21	4	AF	Yes		
12 BATT	12 BATTERY (& BATTERY RACK)	15	1, 2, 3, 4, 5	DC	Yes		IPEEE Enhanced
12 BATT CHG	12 BATTERY CHARGER	16	1, 2, 3, 4, 5	DC	Yes		New or replaced, IPEEE Enhanced
122M/XFMR	122M TRANSFORMER	4	1, 2, 3, 4, 5	EB			
132-281	11 SFGDS SCRNHSE ROOF EXHT FAN	9	1, 2, 3, 4, 5	ZR	Yes	Yes	IPEEE Enhanced
135-101	12 CLG WTR PMP DSL JCKT CLG HX	21	1, 2, 3, 4, 5	CL	Yes		IPEEE Enhanced
145-042	12 CHG PMP	5	1, 2, 3	VC	Yes		
145-071	11 SI PMP	5	3	SI	Yes		
145-122	12 CC PMP	5	2, 3	CC	Yes		Risk significant
145-201	11 TD AFW PMP	5	4	AF	Yes		
145-392	12 DD CLG WTR PMP	6	1, 2, 3, 4, 5	CL	Yes		IPEEE Enhanced
158-011	11 CLG WTR STRNR	0	1, 2, 3, 4, 5	CL	Yes		
174-013	13 CNTMT FCU	10	5	ZC	Yes	Yes	IPEEE Enhanced
174-031	15 SWGR RM UNIT CLR	10	1, 2, 3, 4, 5	ZH	Yes		

Table A-3: Prairie Island Unit 1 – SWEL 1

Equipment Tag	Description	Class ¹	Safety Function ²	System ³	Verify Anchorage?	Deferred?	Comments
174-162	TRN A EVENT MON RM WEST UNIT CLR	10	1, 2, 3, 4, 5	ZH			
1ASG1	SAFEGUARD RELAY RACK 1ASG1	20	1, 2, 3, 4, 5	RP			
1FT-464	MN STM FR 11 STM GEN CHNNL I RED F XMTR	18	4	RP		Yes	
1LT-428	1 PRZR (CHNL III-BLU) LVL XMTR	18	3	RP		Yes	
1LT-461	11 STM GEN LOOP A CHNNL I RED LVL XMTR	18	4	RP		Yes	
1LT-762	U1 RVLIS HEAD FULL RANGE TRN B D/P XMTR	18	3	EM			
1LT-763	12 RX VSL HEAD DYNAMIC RNG TRN B D/P XMTR	18	3	EM			
1LT-920	11 RWST LVL XMTR	18	1, 2, 3	EM			
1LT-921	11 RWST LVL XMTR	18	1, 2, 3	EM	Yes		
1NR3	NIS RACK III (BLU) 1NR3	20	1	NI			IPEEE Enhanced
1PT-469	11 STM GEN LOOP A (CHNNL II-WHI) P XMTR	18	4	RP	Yes		
1PT-479	12 STM GEN LOOP B (CHNL IV-YEL) P XMTR	18	4	RP	Yes		
B-1	CONTROL PANEL B-1	20	1, 3, 4, 5	BM			IPEEE Enhanced
B15 LOGIC-2	BUS 15 LOGIC RELAY CAB 2	20	1, 2, 3, 4, 5	EA	Yes		
BUS 122	BUS 122 480V SWITCHGEAR	2	1, 2, 3, 4, 5	EB		Yes	

Table A-3: Prairie Island Unit 1 – SWEL 1

Equipment Tag	Description	Class ¹	Safety Function ²	System ³	Verify Anchorage?	Deferred?	Comments
BUS 16	BUS 16 4.16KV SWITCHGEAR	3	1, 2, 3, 4, 5	EA		Yes	
CV-31059	11 TD AFW PMP TRIP THROTTLE CV	7	4	AF			
CV-31153	11 TD AFW PMP RECIRC/L-O CLG CV	7	4	AF			
CV-31423	12 DD CLG WTR JCKT CLR OUTL CV	7	1, 2, 3, 4, 5	CL			
CV-31505	D1 DSL GEN CLG WTR SPLY CV	7	1, 2, 3, 4, 5	CL			
CV-31652	11 CLG WTR STRNR BCKWSH CV	7	1, 2, 3, 4, 5	CL			
CV-31953	D1 DSL GEN AIR START CV A	7	1, 2, 3, 4, 5	D1			
CV-39401	11/13 FCU CLG WTR SPLY CV	7	5	ZX			IPEEE Enhanced
CV-39405	11 CRDM SHRD CLG COIL SPLY CV	7	5	ZX		Yes	
D-1	CONTROL PANEL D-1	20	4	BM	Yes		IPEEE Enhanced
D1/GEN RLY PNL	D1 DSL GEN RELAY PNL	20	1, 2, 3, 4, 5	D1	Yes		
E-1	CONTROL PANEL E-1	20	1, 2, 3, 4, 5	BM	Yes		IPEEE Enhanced.
EM-B1	U1 EVENT MON RACK EM-B1	20	4, 5	EM	Yes		
MCC 1A1	MOTOR CONTROL CENTER 1A BUS 1	1	1, 2, 3, 4, 5	EB		Yes	

Table A-3: Prairie Island Unit 1 – SWEL 1

Equipment Tag	Description	Class ¹	Safety Function ²	System ³	Verify Anchorage?	Deferred?	Comments
MCC 1AB2	MOTOR CONTROL CENTER 1AB BUS 2	1	1, 2, 3, 4, 5	EB	Yes	Yes	IPEEE Enhanced
MCC 1K2	MOTOR CONTROL CENTER 1K BUS 2	1	1, 2, 3, 4, 5	EB	Yes	Yes	
MCC 1L2	MOTOR CONTROL CENTER 1L BUS 2	1	1, 3, 5	EB	Yes	Yes	IPEEE Enhanced
MCC 1T2	MOTOR CONTROL CENTER 1T BUS 2	1	1, 2, 3, 4, 5	EB	Yes	Yes	
MCC 1T2/XFR SW	MCC 1T2 XFR SW	4	1, 2, 3, 4, 5	EB			New or replaced
MTR 111F-31	11 INVERTER (INSTR BUS II-WHI)	16	1, 2, 3, 4, 5	IP		Yes	
MTR 111F-32	13 INVERTER (INSTR BUS III-BLU)	16	1, 2, 3, 4, 5	IP		Yes	
MV-32017	12 SG MS SPLY TO 11 TD AFW PMP MV	8	4	MS			
MV-32025	11 TD AFW PMP SUCT CL SPLY MV	8	4	CL			
MV-32077	SUMP B TO 11 RHR PMP TRN A (OUTSIDE) MV	8	3, 4	SI			
MV-32133	11 FCU CLG WTR OUTL ISOL MV B	8	5	CL			
MV-32141	14 FCU CLG WTR OUTL ISOL MV A	8	5	CL		Yes	
MV-32145	11 CC HX CLG WTR INLT MV	8	3	CL			
MV-32238	11 AFW TO 11 SG MV	8	4	AF			

Table A-3: Prairie Island Unit 1 – SWEL 1

Equipment Tag	Description	Class ¹	Safety Function ²	System ³	Verify Anchorage?	Deferred?	Comments
MV-32242	11/12 AFW TO 11 SG ISOL MV	8	4	AF			
MV-32380	14 FCU CLG WTR INLT ISOL MV	8	5	CL			New or replaced
MV-32381	12 MD AFW PMP DISCH TO 11 SG MV	8	4	AF			
PNL 11	DISTRIBUTION PANEL 11	14	1, 2, 3, 4, 5	DC	Yes	Yes	IPEEE Enhanced
PNL 111	INSTR BUS II (WHI) PNL 111	14	1, 2, 3, 4, 5	IP		Yes	
PNL 113	INSTR BUS III (BLUE) PNL 113	14	1, 2, 3, 4, 5	IP		Yes	
PNL 12	DISTRIBUTION PANEL 12	14	1, 2, 3, 4, 5	DC		Yes	IPEEE Enhanced
PNL 133	AC DISTRIBUTION PANEL 133	14	1, 2, 3, 4, 5	EX	Yes	Yes	
PNL 133/XFMR	DIST PNL 133 XFMR	4	1, 2, 3, 4, 5	EX			
PNL 136	AC DISTRIBUTION PANEL 136	14	1, 2, 3, 4, 5	EX	Yes	Yes	
PNL 136/XFMR	DIST PNL 136 XFMR	4	1, 2, 3, 4, 5	EX			
PNL 153	DISTRIBUTION PANEL 153	14	3, 5	DC	Yes	Yes	
PNL 191	DC DISTRIBUTION PANEL 191	14	3, 4, 5	DC	Yes		
PNL 1EM	DIST PNL 1EM	14	1, 2, 3, 4, 5	EM		Yes	
RS-21-1	11 SG MS HDR RELIEF	7	4	MS			

Table A-3: Prairie Island Unit 1 – SWEL 1

Equipment Tag	Description	Class ¹	Safety Function ²	System ³	Verify Anchorage?	Deferred?	Comments
SV-33186	D1 DSL GEN WTR SPLY SV	8	1, 2, 3, 4, 5	CL			
SV-33242	D1 DSL GEN AIR START VENT SV	8	1, 2, 3, 4, 5	D1			
SV-33343	11 CLG WTR STRNR BCKWSH SV	8	1, 2, 3, 4, 5	CL			
SV-33371	11 FCU DISCH TO CNTMT DOME CD-34072 SV	8	5	ZC		Yes	
SV-37460	U1 TRN A CHLD WTR/CLG WTR ISOL SV	8	1, 2, 3, 4, 5	ZX		Yes	
SV-37462	U1 TRN A CHLD WTR/CLG WTR ISOL SV	8	1, 2, 3, 4, 5	ZX			
VC-28-2	12 CHG PMP DISCH RELIEF	7	1, 2, 3	VC			

Notes:

1) Class – Class as defined in Appendix B of Reference 1.

2) Safety function – Defined as follows:

1 = Reactor Reactivity Control

2 = Reactor Coolant Pressure Control

3 = Reactor Coolant inventory Control

4 = Decay Heat Removal

5 = Containment Function

3) System – Identifies the system associated with the equipment. The abbreviations for these systems are listed below.

Code	System	Code	System
AF	AUXILIARY FEEDWATER	IP	INSTRUMENT POWER SOURCES
AT	AUX START-UP/STDBY XFMRs	MP	MISC PLANT INSTRUMENTS
BM	SITE MISCELLANEOUS MAINTENANCE	MS	MAIN STEAM
CC	COMPONENT COOLING	NI	NUCLEAR INSTRUMENTATION
CL	COOLING WATER	PI	ROD POSITION INDICATION
D1	D1 EMERGENCY DIESEL	RC	REACTOR COOLANT
D2	D2 EMERGENCY DIESEL	RP	REACTOR PROTECTION
D5	D5 EMERGENCY DIESEL	SA	STATION & INSTRUMENT AIR
D6	D6 EMERGENCY DIESEL	SE	STEAM EXCLUSION
DC	DC AUXILIARIES	SF	SPENT FUEL POOL COOLING
EA	4.16KV ELECTRICAL	SI	SAFETY INJECTION
EB	480V ELECTRICAL	VC	CHEMICAL & VOLUME CONTROL
EH	ELECTRO-HYDRAULIC SYSTEM	ZC	CONTAINMENT VENT
EL	SITE LIGHTING	ZG	DIESEL ROOMS VENT
EM	EVENT MONITORING	ZH	SAFEGUARDS CHILLED WATER
EX	240/120V MISC AUXILIARIES	ZR	SCREENHOUSE VENT
FO	FUEL OIL	ZX	CNTMT & AUX BLDG COOLING
FW	FEEDWATER	ZN	CONT/RELAY/CMPTR RM VENT

A.4 Final SWEL 2

This section provides a list of the final equipment selected for PINGP's SWEL 2 for the SFP. Table A-4 lists the components selected for the SWEL 2 walkdowns.

Table A-4: Prairie Island – SWEL 2	
Equipment Tag	Description
035-012	122 SFP HX
045-102	122 SFP PMP

B

Seismic Walkdown Checklists (SWCs)

This appendix provides the Seismic Walkdown Checklists (SWC) completed as of November 9, 2012 for PINGP. Table B-1 provides a description of each item, anchorage configuration verification, and the checklist status for each SWC. The seismic walkdown checklists are provided after this table, and are in the same chronological order as listed in the table.

Table B-1: Prairie Island Unit 1 Completed SWCs				
Equipment Tag	Equipment Description	Anchorage Confirmed?	Comments	Checklist Status (Y/N)
22017	D1 DSL GEN RM TEMP XMTR	No		Y
22024	121 MD CLG WTR PMP AREA T XMTR B	No	Common	Y
55000	D1 DSL GEN GAUGE PANEL (DGP)	No		Y
55400	D1 DSL GEN AUX CONT PNL	Yes		Y
57304	122 CONT RM CHLR LCL CONT PNL	No		N
70300	12 DD CLWP LCL PNL	Yes		Y
032-011	121 D1 DSL GEN EXHT FAN	Yes		Y
032-041	121 D1 DSL GEN SPLY FAN	Yes	Common	Y
032-292	122 CONT RM CLEAN-UP FAN	No	Common	Y
034-011	D1 DSL GEN	Yes		Y
045-592	122 CONT RM CHLD WTR PMP	Yes		Y
046-031A	D1 DSL GEN START-UP AIR RCVR A	Yes		Y
053-201	D1 DSL GEN FUEL OIL DAY TANK	Yes		Y

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Table B-1: Prairie Island Unit 1 Completed SWCs				
Equipment Tag	Equipment Description	Anchorage Confirmed?	Comments	Checklist Status (Y/N)
053-321	12 DD CLG WTR PMP DSL OIL DAY TNK	Yes	Common	N
053-382	122 CONT RM CHLD WTR EXPN TNK	Yes	Common	Y
069-242	122 CONT RM PAC FLTR	No	Common	Y
076-022	122 CONT RM AIR HNDLR	Yes	Common	Y
11 BATT	11 BATTERY (& BATTERY RACK)	Yes		Y
111M/XFMR	111M TRANSFORMER	No		Y
112M/XFMR	112M TRANSFORMER	No		Y
117-111	11 TD AFW PMP L-O CLR	Yes		Y
12 BATT	12 BATTERY (& BATTERY RACK)	Yes		Y
12 BATT CHG	12 BATTERY CHARGER	Yes		Y
122M/XFMR	122M TRANSFORMER	No		Y
125MR	125 MISC RELAY RACK	No	Common	Y
135-101	12 CLG WTR PMP DSL JCKT CLG HX	Yes		Y
145-042	12 CHG PMP	Yes		Y
145-071	11 SI PMP	Yes		Y
145-122	12 CC PMP	Yes		Y
145-201	11 TD AFW PMP	Yes		Y
145-392	12 DD CLG WTR PMP	Yes		Y
158-011	11 CLG WTR STRNR	Yes		Y

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Table B-1: Prairie Island Unit 1 Completed SWCs				
Equipment Tag	Equipment Description	Anchorage Confirmed?	Comments	Checklist Status (Y/N)
174-031	15 SWGR RM UNIT CLR	Yes		N
174-162	TRN A EVENT MON RM WEST UNIT CLR	No		Y
1ASG1	SAFEGUARD RELAY RACK 1ASG1	No		Y
1LT-762	U1 RVLIS HEAD FULL RANGE TRN B D/P XMTR	No		Y
1LT-763	12 RX VSL HEAD DYNAMIC RNG TRN B D/P XMTR	No		Y
1LT-920	11 RWST LVL XMTR	No		Y
1LT-921	11 RWST LVL XMTR	Yes		Y
1NR3	NIS RACK III (BLU) 1NR3	No		Y
1PT-469	11 STM GEN LOOP A (CHNNL II-WHI) P XMTR	Yes		Y
1PT-479	12 STM GEN LOOP B (CHNL IV-YEL) P XMTR	Yes		Y
B-1	CONTROL PANEL B-1	No		Y
B15 LOGIC-2	BUS 15 LOGIC RELAY CAB 2	Yes		N
CV-31059	11 TD AFW PMP TRIP THROTTLE CV	No		Y
CV-31153	11 TD AFW PMP RECIRC/L-O CLG CV	No		Y
CV-31423	12 DD CLG WTR JCKT CLR OUTL CV	No		Y
CV-31505	D1 DSL GEN CLG WTR SPLY CV	No		Y
CV-31652	11 CLG WTR STRNR BCKWSH CV	No		Y

Prairie Island Nuclear Generating Plant - Unit 1
Seismic Walkdown Submittal Report

Table B-1: Prairie Island Unit 1 Completed SWCs				
Equipment Tag	Equipment Description	Anchorage Confirmed?	Comments	Checklist Status (Y/N)
CV-31953	D1 DSL GEN AIR START CV A	No		Y
CV-39401	11/13 FCU CLG WTR SPLY CV	No		N
D-1	CONTROL PANEL D-1	Yes		Y
D1/GEN RLY PNL	D1 DSL GEN RELAY PNL	Yes		Y
E-1	CONTROL PANEL E-1	Yes		N
EM-B1	U1 EVENT MON RACK EM-B1	Yes		N
MCC 1T2/XFR SW	MCC 1T2 XFR SW	No		N
MV-32017	12 SG MS SPLY TO 11 TD AFW PMP MV	No		Y
MV-32025	11 TD AFW PMP SUCT CL SPLY MV	No		Y
MV-32034	121 CLWP DSCH HDR MV A	No	Common	Y
MV-32077	SUMP B TO 11 RHR PMP TRN A (OUTSIDE) MV	No		Y
MV-32133	11 FCU CLG WTR OUTL ISOL MV B	No		Y
MV-32145	11 CC HX CLG WTR INLT MV	No		Y
MV-32238	11 AFW TO 11 SG MV	No		Y
MV-32242	11/12 AFW TO 11 SG ISOL MV	No		Y
MV-32380	14 FCU CLG WTR INLT ISOL MV	No		Y
MV-32381	12 MD AFW PMP DISCH TO 11 SG MV	No		Y
PNL 133/XFMR	DIST PNL 133 XFMR	No		Y
PNL 136/XFMR	DIST PNL 136 XFMR	No		Y

Prairie Island Nuclear Generating Plant - Unit 1
Seismic Walkdown Submittal Report

Table B-1: Prairie Island Unit 1 Completed SWCs

Equipment Tag	Equipment Description	Anchorage Confirmed?	Comments	Checklist Status (Y/N)
PNL 191	DC DISTRIBUTION PANEL 191	Yes		Y
RS-21-1	11 SG MS HDR RELIEF	No		Y
SA-54-3	D1 DSL GEN MAIN AIR RCVR RELIEF	No	Common	Y
SV-33186	D1 DSL GEN WTR SPLY SV	No		Y
SV-33242	D1 DSL GEN AIR START VENT SV	No		Y
SV-33343	11 CLG WTR STRNR BCKWSH SV	No		Y
SV-33694	11 SFGDS SCRNHSE ROOF EXHT FAN CD-34137 SV	No	Common	Y
SV-37025	122 CONT RM AIR HNDLR OA SPLY CD-34145 SV	No	Common	Y
SV-37462	U1 TRN A CHLD WTR/CLG WTR ISOL SV	No		Y
VC-28-2	12 CHG PMP DISCH RELIEF	No		Y
035-012	122 SFP HX	Yes	SWEL 2	Y
045-102	122 SFP PMP	Yes	SWEL 2	Y

Seismic Walkdown Checklist (SWC)

Equipment ID No. 22017 Equip. Class¹ (19) Temperature Sensors

Equipment Description D1 DSL GEN RM TEMP XMTR

Location: Bldg. TURB Floor El. [REDACTED] Room, Area EDG D-1

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

Wall mounted by four 1/4" concrete expansion anchor.

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

The anchorage is clean and coated.

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 22017 Equip. Class¹ (19) Temperature Sensors

Equipment Description D1 DSL GEN RM TEMP XMTR

Interaction Effects

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

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

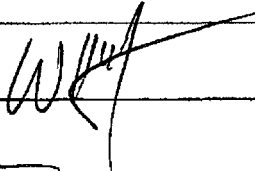
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A


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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic  Date: 10/25/12

Kyle Kriesel  Date: 10.24.12

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 22024 Equip. Class¹ (19) Temperature Sensors

Equipment Description 121 MD CLG WTR PMP AREA T XMTR B

Location: Bldg. SSCN Floor El. [REDACTED] Room, Area SOUTH

Manufacturer, Model, Etc. (optional but recommended) Foxboro Model 630

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The Seismic Walkdown Engineers (SWEs) noted different size anchors bolted to the wall. The first bolt is 7/16" in diameter and the second is 3/8" in diameter. The anchorage has adequate seismic capacity and is therefore acceptable.

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 22024 Equip. Class' (19) Temperature Sensors

Equipment Description 121 MD CLG WTR PMP AREA T XMTR B

Interaction Effects

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

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

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

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

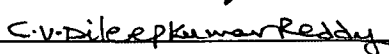
Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

None.

Evaluated by: Bruce M. Lory  Date: 10-19-12

Dileep Cheropalle  10-19-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 55000 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description D1 DSL GEN GAUGE PANEL (DGP)

Location: Bldg. TURB Floor El. [REDACTED] Room, Area EDG D-1

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
It is mounted directly to the skid. Vibration isolators are non-active due to new anchor age bracket.

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 55000 Equip. Class^t (20) Instrumentation and Control Panels and Cabinets

Equipment Description D1 DSL GEN GAUGE PANEL (DGP)

Interaction Effects

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

The lighting fixture "S" hooks are closed.

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

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

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

Other Adverse Conditions

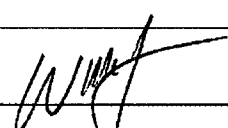
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Bottom latch has some apparent deterioration degradation due to engine vibration. This condition does not affect seismic capacity; however, recommend repair for maintenance purposes.

CAP 1353290 has been initiated to evaluate this observation. WR 83855 has also been initiated to address this observation.

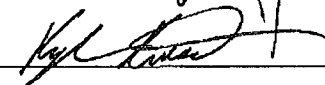
Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic



Date: 10/25/12

Kyle Kriesel



Date: 10.24.12

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The remaining pages are withheld from public disclosure.

Seismic Walkdown Checklist (SWC)

Equipment ID No. 55400 Equip. Class¹ (14) Distribution Panels

Equipment Description D1 DSL GEN AUX CONT PNL

Location: Bldg. TURB Floor El. [REDACTED] Room, Area EDG D-1

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

Panel is mounted to two struts, per the drawing. The two struts are mounted to the wall by two 1/2" diameter concrete expansion anchors each.

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

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

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

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

Drawing NF-40307-1 was used for anchorage verification.

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 55400 Equip. Class¹ (14) Distribution Panels

Equipment Description D1 DSL GEN AUX CONT PNL

Interaction Effects

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

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

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

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

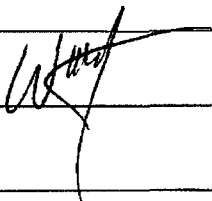
Other Adverse Conditions

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

The internal components were inspected. No anomalies were identified.

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic



Date: 10/25/12

Kyle Kriesel



Date: 10.24.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 57304 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description 122 CONT RM WTR CHLLR LCL CONT PNL

Location: Bldg. AUX Floor El. [REDACTED] Room, Area 122 CRM CHLR

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

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
No concrete, it is bolted to steel.

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 57304 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description 122 CONT RM WTR CHLLR LCL CONT PNL

Interaction Effects

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

The room heater is located above the control panel 57304 and is restrained properly. It is not a seismic concern.

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

The light fixture in the vicinity of the control panel has an open "S" hook connecting the fixture to its chain at the bottom and at the ceiling connection. Both "S" hooks are open. The light fixture could fall under seismic loading and strike SV-5730419 and CS-5731407 and SA-111-13.

CAP 1352001 has been initiated to evaluate the open "S" hooks identified during these walkdowns. In addition to the action request, WR 83556 has been initiated to address this observation.

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-22-12

Bruce M. Lory Bruce M. Lory 10-21-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 70300 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description 12 DD CLWP LCL PNL

Location: Bldg. SSCN Floor El. XXXXXXXXXX Room, Area 12 DD CLWP

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

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

Surface oxidation was noticed on channels supporting the panel at the base. SWEs judged that it is acceptable.

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

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

SQUG SEWs were used for anchorage verification. SWEs verified four anchors.

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 70300 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description 12 DD CLWP LCL PNL

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

The cabinet internals were inspected and no loose or missing component hardware was found.

Comments (Additional pages may be added as necessary)

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-26-12

Bruce M. Lory Bruce M. Lory 10-26-12

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The remaining pages are withheld from public disclosure.

Seismic Walkdown Checklist (SWC)

Equipment ID No. 032-011 Equip. Class¹ (09) Fans

Equipment Description 121 D1 DSL GEN EXHT FAN

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area EDG D-1

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

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

The anchorage is clean and coated.

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

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

Drawing XH-175-23 was used for verification.

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 032-011 Equip. Class¹ (09) Fans

Equipment Description 121 D1 DSL GEN EXHT FAN

Interaction Effects

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

The "S" hook for the lighting fixtures appear to be closed and are not a credible hazard to fans.

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic

Date: 10/25/12

Kyle Kriesel

Date: 10.24.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 032-041 Equip. Class¹ (09) Fans

Equipment Description 121 D1 DSL GEN SPLY FAN

Location: Bldg. TURB Floor El. [REDACTED] Room, Area EDG D-1

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

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

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

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Drawing X-HIAW-175-24, Revision A, was used for verification.

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 032-041 Equip. Class' (09) Fans

Equipment Description 121 D1 DSL GEN SPLY FAN

Interaction Effects

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

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
The lighting fixtures do not pose a credible hazard. Y N U N/A

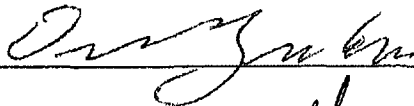
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A

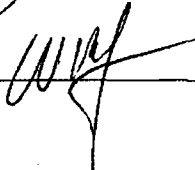
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Dennis Zercher  Date: 10-17-2012

Walter Djordjevic  10/25/12

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The remaining pages are withheld from public disclosure.

Seismic Walkdown Checklist (SWC)

Equipment ID No. 032-292 Equip. Class¹ (09) Fans

Equipment Description 122 CONT RM CLEAN-UP FAN

Location: Bldg. AUX Floor El. [REDACTED] Room, Area 122 CRM CHLR

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 032-292 Equip. Class^t (09) Fans

Equipment Description 122 CONT RM CLEAN-UP FAN

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Dileep Cherlopalle C.V. Dileepkumar Reddy Date: 10-18-12

Bruce Lory Bruce M. Lory 10-18-12

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The remaining pages are withheld from public disclosure.

Seismic Walkdown Checklist (SWC)

Equipment ID No. 034-011 Equip. Class¹ (17) Engine Generators

Equipment Description D1 DSL GEN

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area EDG D-1

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

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

The anchorage is clean and coated.

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

Some small cracks in grout but none are at or near anchors. There is no seismic concern.

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

Anchorage was compared to SEWS for verification.

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 034-011 Equip. Class (17) Engine Generators

Equipment Description D1 DSL GEN

Interaction Effects

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

Some light fixtures in the area have open "S" hooks, but these light fixtures are not near enough air lines to be a credible hazard. The "S" hooks should be closed for maintenance purposes.

CAP 1352001 has been initiated to evaluate the open "S" hooks observed during the walkdowns. In addition to writing an action request, WR 83556 has been initiated to address the observations.

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

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

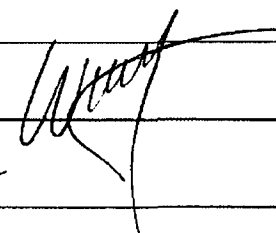
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U


Other Adverse Conditions

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

The rod hung unit steam heater attached to the piping has adequate flexibility to accommodate heater movement, and is not a seismic concern.

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic  Date: 10/25/12

Kyle Kriesel  Date: 10.24.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 045-592 Equip. Class¹ (05) Horizontal Pumps

Equipment Description 122 CONT RM CHLD WTR PMP

Location: Bldg. AUX Floor El. ██████ Room, Area 122 CRM CHLR

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

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

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

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Referenced Drawing NF-38301-18 for anchorage verification. Y N U N/A

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 045-592 Equip. Class¹ (05) Horizontal Pumps

Equipment Description 122 CONT RM CHLD WTR PMP

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-18-12

Bruce Lory Bruce M. Lory 10-18-12

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The remaining pages are withheld from public disclosure.

Seismic Walkdown Checklist (SWC)

Equipment ID No. 046-031A Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description D1 DSL GEN START-UP AIR RCVRA

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area EDG D-1

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

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

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

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Drawing NF-38512-2G and Colt Industry Drawing 11866099 used for verification.

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 046-031A Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description D1 DSL GEN START-UP AIR RCVR 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
There is vertical ductwork that spans between two floors. It is rigid and therefore is not a seismic concern.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
There is a conduit in contact with the 1-CHW-387 pipe support, but it is adjudged to be acceptable because there is little relative movement. It is not a seismic concern.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U
There were none observed.

Comments (Additional pages may be added as necessary)

Evaluated by: Dennis Zercher  Date: 10-17-2012

Walter Djordjevic  10-25-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 053-201 Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description D1 DSL GEN FUEL OIL DAY TANK

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area EDG D-1

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

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

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

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

- Compared to SEWS, and Drawings NF-38298-10, NF -38312-5, NF-38313-1 for anchorage verification.*

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

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

Seismic Walkdown Checklist (SWC)

Equipment ID No. 053-201 Equip. Class' (21) Tanks and Heat Exchangers

Equipment Description D1 DSL GEN FUEL OIL DAY TANK

Interaction Effects

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

*The light fixtures have closed "S" hooks and are not a seismic concern.
There is no sight glass, so there are no soft target concerns.*

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

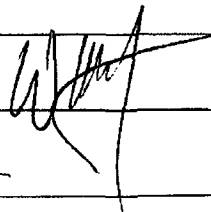
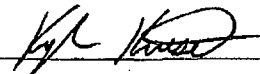
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic  Date: 10/25/12
Kyle Kriesel  Date: 10.24.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 053-321 Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description 12 DD CLG WTR PMP DSL OIL DAY TNK

Location: Bldg. SSCN Floor El. [REDACTED] Room, Area 12 DD CLWP

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
The day tank foundation has eight (7/8" diameter) anchors. One of these anchors appears to not be fully seated.

CAP 01352845 has been initiated to evaluate this observation. In addition to writing an action request, WR 83768 had been initiated to address this observation.

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

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

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Verified against drawings NF-38350-335 and NF-38350-4.

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 053-321 Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description 12 DD CLG WTR PMP DSL OIL DAY TNK

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

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

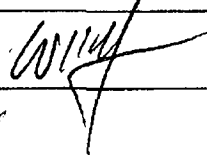
Comments (Additional pages may be added as necessary)


Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 053-321 Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description 12 DD CLG WTR PMP DSL OIL DAY TNK

Evaluated by: Walter Djordjevic  Date: 10/25/12

Dennis Zercher  10-17-2012

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 053-382 Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description 122 CONT RM CHLD WTR EXPN TNK

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area 122 CRM CHLR

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

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

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

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Anchorage verification was performed using SQUG SEWS. The SQUG anchorage calculation assumes one bolt is acting in resisting all shear and all tension. Calculations show that the expansion anchor size agrees with "as installed" anchors. Therefore, SWEs judge anchorage verification is validated based on this conservative analysis.

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 053-382 Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description 122 CONT RM CHLD WTR EXPN TNK

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

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 053-382 Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description 122 CONT RM CHLD WTR EXPN TNK

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-19-12

Bruce Lory Bruce M. Lory 10-18-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 069-242 Equip. Class¹ (00) Other

Equipment Description 122 CONT RM PAC FLTR

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area 122 CRM CHLR

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

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

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

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

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

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

Seismic Walkdown Checklist (SWC)

Equipment ID No. 069-242 Equip. Class^t (00) Other

Equipment Description 122 CONT RM PAC FLTR

Interaction Effects

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

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

One light fixture has an open "S" hook on the bottom connection of the chain. Under earthquake conditions SWEs judge that the light fixture will drop off the open "S" hook and swing into the filter. SWEs judged that impact is credible but not significant. The light fixture will not impact the soft target of the glass window. Therefore, the safety function is not impaired.

CAP 01352001 has been initiated to evaluate the open "S" hooks identified during these walkdowns. In addition to writing an action request, WR 83556 has been initiated to address this observation.

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

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

Other Adverse Conditions

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 069-242 Equip. Class¹ (00) Other

Equipment Description 122 CONT RM PAC FLTR

Comments (Additional pages may be added as necessary)

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-26-12

Bruce M. Lory Bruce M. Lory 10-26-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 076-022 Equip. Class¹ (10) Air Handlers

Equipment Description 122 CONT RM AIR HNDLR

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area 122 CRM CHLR

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

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

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

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
The anchorage verification used the SQUG SEWs which states the air handler is rod hung using six - 1/2" diameter rods with vibration isolators. Y N U N/A

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 076-022 Equip. Class¹ (10) Air Handlers

Equipment Description 122 CONT RM AIR HNDLR

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-18-12

Bruce Lory Bruce M. Lory 10-18-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 11 BATT Equip. Class¹ (15) Batteries on Racks

Equipment Description 11 BATTERY (& BATTERY RACK)

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area 11 BATT RM

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

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

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

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

- SQUG SEWs were referenced for anchorage verification. SWEs verified there were four anchors for each bay frame.*

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 11 BATT Equip. Class¹ (15) Batteries on Racks

Equipment Description 11 BATTERY (& BATTERY RACK)

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce M. Lory *Bruce M. Lory* Date: 10-18-12

Dileep Cherlopalle *C.V. Dileepkumar Reddy* 10-19-12

SUNSI - WITHHOLD FROM PUBLIC DISCLOSURE

The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 111M/XFMR Equip. Class¹ (04) Transformers

Equipment Description 111M Transformer

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area BUS 111

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 111M/XFMR Equip. Class¹ (04) Transformers

Equipment Description 111M Transformer

Interaction Effects

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

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
The HVAC uses thread rod and inserts on 8' to 10' spacing and looks acceptable. This is not a seismic concern.

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

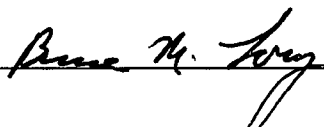
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

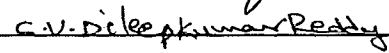
Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

There is a coil of cable that looks like it is coiled up using electrical tape. This is not a seismic issue with 111M XFMR. CAP 01353147 has been initiated to evaluate this observation. In addition to the action request, WR 83841 has been initiated to address this observation.

Evaluated by: Bruce M. Lory  Date: 10-25-12

Dileep Cherlopalle  10-25-12

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The remaining pages are withheld from public disclosure.

Seismic Walkdown Checklist (SWC)

Equipment ID No. 112M/XFMR Equip. Class¹ (04)Transformers

Equipment Description 112M TRANSFORMER

Interaction Effects

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

Some "S" hooks may be open on lighting fixtures but they are not a credible hazard to the transformer.

CAP 01352001 has been initiated to evaluate the open "S" hooks identified during the walkdowns. In addition to writing this action request, WR 83556 has been initiated to address this observation.

8. Are 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 cooler and supply and return lines are well supported so there is no reasonable potential for spray down or flood in the event of an earthquake.

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

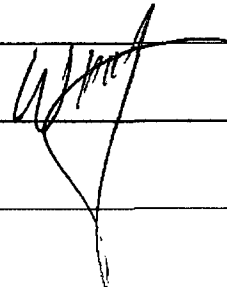
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic



Date: 10/25/12

Kyle Kriesel



10.24.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 117-111 Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description 11 TD AFW PMP L-O CLR

Interaction Effects

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

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

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

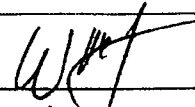
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

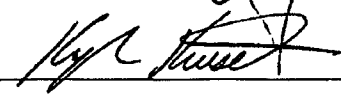
Other Adverse Conditions

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

There is a power plug cable wound around a digital tachometer. It is deemed acceptable and not a seismic hazard.

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic  Date: 11-7-2012

Kyle Kriesel  Date: 11.2.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 12 BATT Equip. Class¹ (15) Batteries on Racks

Equipment Description 12 BATTERY (& BATTERY RACK)

Location: Bldg. TURB Floor El. [REDACTED] Room, Area 12 BATT RM

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

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

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

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Drawing NF-38221-13 was used for verification. Y N U N/A

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 12 BATT Equip. Class^t (15) Batteries on Racks

Equipment Description 12 BATTERY (& BATTERY RACK)

Interaction Effects

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

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
The safety related block walls number 5 and number 7 are acceptable.

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

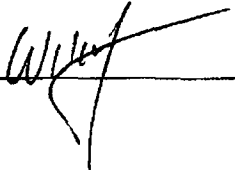
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U
There are "head bumper" foam covers at the end of the cabinetry supports. If they were to fall off, they are nonconductive and light weight and therefore are not a seismic concern.

Comments (Additional pages may be added as necessary)

Evaluated by: Dennis Zercher  Date: 10-17-2012

Walter Djordjevic  10/25/12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 12 BATT CHG Equip. Class¹ (16) Battery Chargers and Inverters

Equipment Description 12 BATTERY CHARGER

Location: Bldg. TURB Floor El. [REDACTED] Room, Area 12 BATT RM

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

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
There is one small crack on the floor, but it is not through the grout pad. This is not a seismic concern.

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
*(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Drawing NF-38221-12 and AES PI-996-94-S01 documents were used for verification.*

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 12 BATT CHG Equip. Class¹ (16) Battery Chargers and Inverters

Equipment Description 12 BATTERY CHARGER

Interaction Effects

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

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U
The SWEs opened both doors on 12 BATT CHG. There were no issues identified.

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic

Date: 10/25/12

Dennis Zercher

10-17-2012

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 122M/XFMR Equip. Class¹ (04)Transformers

Equipment Description 122M TRANSFORMER

Location: Bldg. AUX Floor El. [REDACTED] Room, Area 122 BUS

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

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

The SWEs noted the presence of shrinkage cracks in the concrete, but they are not a seismic concern.

5. Is the anchorage configuration consistent with plant documentation? Y N U N/A

(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 122M/XFMR Equip. Class¹ (04)Transformers

Equipment Description 122M TRANSFORMER

Interaction Effects

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

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

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

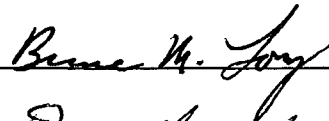
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

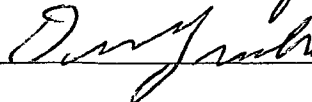
Comments (Additional pages may be added as necessary)

Evaluated by: Bruce M. Lory



Date: 10-21-12

Dennis Zercher



10-22-2012

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 125MR Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description 125 Miscellaneous Relay Rack

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area ROD DRIVE

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

Anchored by four 5/8" concrete expansion anchors, one in each corner.

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 125MR Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description 125 Miscellaneous Relay Rack

Interaction Effects

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

The light fixture "S" hooks are closed. No seismic concerns identified.

8. Are 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 air handling unit is supported by three rod hangers. One rod hanger is a cross member and is not positively secured to air handler casing.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

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

Masonry block wall number 36 is safety related, so it is seismically acceptable.

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

Cabinet was inspected internally and no loose or missing component mounting hardware or structural fasteners were identified.

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 125MR Equip. Class^t (20) Instrumentation and Control Panels and Cabinets

Equipment Description 125 Miscellaneous Relay Rack

Evaluated by: *Bruce M. Long* Date: 10-21-12
[Signature] 10-22-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 135-101 Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description 12 CLG WTR PMP DSL JCKT CLG HX

Location: Bldg. SSCN Floor El. XXXXXXXXXX Room, Area 12 DD CLWP

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

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

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

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

- The SQUG SEWS was used to verify the anchorage.*

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 135-101 Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description 12 CLG WTR PMP DSL JCKT CLG HX

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce M. Lory *Bruce M. Lory* Date: 10-26-12

Dileep Cherlopalle *C-V. Dileep Kumar Reddy* Date: 10-26-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 145-042 Equip. Class¹ (05) Horizontal Pumps

Equipment Description 12 CHG Pump

Location: Bldg. AUX Floor El. [REDACTED] Room, Area 12 CHRG PMP

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

The anchorage is composed of eight 1 1/8" cast in place anchors.

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

The anchorage is clean and coated.

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

There are cracks in the floor but they do not cross through anchors.

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

Drawing NF-38308-01 and SQUG SEWs were used for anchorage verification.

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 145-042 Equip. Class¹ (05) Horizontal Pumps

Equipment Description 12 CHG Pump

Interaction Effects

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

There are open "S" hooks on lighting fixtures but they are not deemed a credible hazard to the charging pumps.

CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

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

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

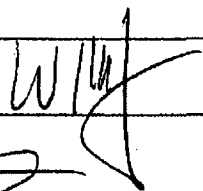
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Contaminated Radiation sign stanchions can not overturn due to bottom mass. As a recommendation, they should be positively secured to skid.

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic  Date: 11-5-12

Kyle Kriesel  Date: 10.25.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 145-071 Equip. Class¹ (05) Horizontal Pumps

Equipment Description 11 SI PMP

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area 11/12 SI PUMP

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

SWEs referenced drawing XH-1-633 for anchorage verification. This drawing showed ten 1" anchors. The anchorage was verified.

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 145-071 Equip. Class¹ (05) Horizontal Pumps

Equipment Description 11 SI PMP

Interaction Effects

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

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

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

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

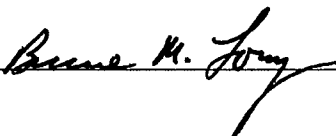
Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

There is a temporary power supply cable to the radiation sign, but there is no seismic concern.

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-19-12

Bruce Lory  10-18-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 145-122 Equip. Class¹ (05) Horizontal Pumps

Equipment Description 12 CC PMP

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area 12/22 CC PUMP

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

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Referenced drawing XH-105-5 for anchorage verification. Y N U N/A

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

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

Seismic Walkdown Checklist (SWC)

Equipment ID No. 145-122 Equip. Class¹ (05) Horizontal Pumps

Equipment Description 12 CC PMP

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Foreign material (black insulation 1" x 2" x 8") found behind the 12 CC pump at column base 1-CCH-375 (support number). CAP 1352321 issued to address FME problems.

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-19-12

Bruce M. Lory Bruce M. Lory 10-19-12

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The remaining pages are withheld from public disclosure.

Seismic Walkdown Checklist (SWC)

Equipment ID No. 145-201 Equip. Class¹ (05) Horizontal Pumps

Equipment Description 11 TD AFW PMP

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area 11 AFWP

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

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

The anchorage is clean and coated.

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

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

The SWE's referenced drawing NF-38221-9 for anchorage verification..

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 145-201 Equip. Class: (05) Horizontal Pumps

Equipment Description 11 TD AFW PMP

Interaction Effects

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

The light fixtures have closed "S" hooks.

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

There are no masonry walls. The overhead cable tray and conduits are well supported.

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

There is a light fixture in contact with the incoming conduit, but this is not a seismic issue.

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic  Date: 11-5-12

Kyle Kriesel  Date: 10.25.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 145-392 Equip. Class¹ (06) Vertical Pumps

Equipment Description 12 DD CLG WTR PMP

Location: Bldg. SSGN Floor El. XXXXXXXXXX Room, Area 12 DD CLWP

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

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

SWEs noted that water was on all of the bolts and the base plate. Water source was not evident. There was slight bolt corrosion noted but was deemed acceptable.

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

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

Anchorage verification was performed using the SQUG SEWs. Anchorage consists of twelve 3/4" diameter "cast in place" bolts.

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 145-392 Equip. Class¹ (06) Vertical Pumps

Equipment Description 12 DD CLG WTR PMP

Interaction Effects

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

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

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

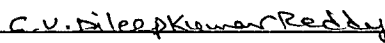
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce Lory  Date: 10-24-12

Dileep Cherlopalle  Date: 10-25-12

~~SUNSI - WITHHOLD FROM PUBLIC DISCLOSURE~~

The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 158-011 Equip. Class¹ (00) Other

Equipment Description 11 CLG WTR STNR

Location: Bldg. SSCN Floor El. XXXXXXXXXX Room, Area SOUTH

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

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

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

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

SQUG SEWs were used for anchorage verification. The anchorage consists of four 7/8" diameter "cast in place" bolts.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 158-011 Equip. Class¹ (00) Other

Equipment Description 11 CLG WTR STNR

Interaction Effects

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

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

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

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

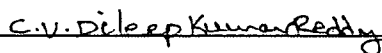
Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

A conduit clamp was found loose with its nut missing. The nut was found underneath the conduit clamp on the floor. The solenoid valve nearby and the adjacent conduit clamp on the other side is tight. Therefore, the SWEs judged the loose conduit clamp as not an adverse seismic condition.

Evaluated by: Bruce Lory  Date: 10-22-12

Dileep Cheropalle  C.V. Dileep Kumar Reddy 10-23-12

~~SUNSI - WITHHOLD FROM PUBLIC DISCLOSURE~~

The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 174-031 Equip. Class¹ (10) Air Handlers

Equipment Description 15 SWGR RM UNIT CLR

Location: Bldg. TURB Floor El. [REDACTED] Room, Area BUS 15 SWG

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

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

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

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

The SWEs checked and confirmed that the cooler is connected to the structural steel via four 1/2" diameter threaded rods as per drawing NF-121067. The SWEs cannot see the ceiling anchorage.

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 174-031 Equip. Class¹ (10) Air Handlers

Equipment Description 15 SWGR RM UNIT CLR

Interaction Effects

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

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

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

The drain line was noted to have limited flexibility because it runs from the drip pan and straight into the safety related block wall number 26. The SWEs judge this to be acceptable based on the structural framing that holds the cooler in the air.

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

The insulation for the 15 SWGR RM unit cooler return line is touching an adjacent 4" diameter conduit. This location is between the unit cooler and the wall.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

Other Adverse Conditions

11. Have you looked for and found no 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: Dileep Cherlopalle CV. Dileep Kumar Reddy Date: 10-25-12

Bruce M. Lory Bruce M. Lory Date: 10-25-12

~~SUNSI - WITHHOLD FROM PUBLIC DISCLOSURE~~

The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 174-162 Equip. Class¹ (10) Air Handlers

Equipment Description TRN A EVENT MON RM WEST UNIT CLR

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area TRN A EVENT MON

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
Rods are slightly bent due to contact with conduit above. This is not a structural support issue.

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 174-162 Equip. Class¹ (10) Air Handlers

Equipment Description TRN A EVENT MON RM WEST UNIT CLR

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
The lateral frame provides lateral stiffness so little displacement ensues.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Check if block wall north of H6 column (behind cooler) is seismically designed (no label). Later discussion with plant engineering confirms that the block wall is seismic Category 1 designed, so comment is resolved and no seismic concern exists.

9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
Supply and return lines span approximately 10' vertically. There is no seismic concern.

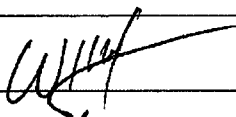
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
A lighting fixture will collide with the drip pan or lateral frame but it is not a seismic hazard to the cooler.

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U
The drip pan hardware is all in place.

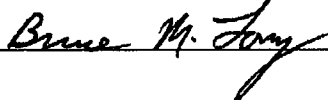
Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic



Date: 10/25/12

Bruce M. Lory



10-23-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1ASG1 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description Safeguard Relay Rack 1ASG1

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area RELAY

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1ASG1 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description Safeguard Relay Rack 1ASG1

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

The cabinet internal components were inspected for any loose or missing mounting hardware, and neither condition was found. A spare, unused terminal block was noted to be missing one terminal screw (not mounting screw)..

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce M. Lory

Bruce M. Lory

Date: 10-18-12

Dileep Cherlopalle

C.V. Dileep Kumar Reddy

10-19-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1LT-762 Equip. Class¹ (18) Instruments on Racks

Equipment Description 12 RX VSL HEAD FULL RNG TRN B D/P XMTR

Location: Bldg. AUX Floor El. [REDACTED] Room, Area EAST

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1LT-762 Equip. Class¹ (18) Instruments on Racks
Equipment Description 12 RX VSL HEAD FULL RING TRN B D/P XMTR

Interaction Effects

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

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

The "S" hooks for the lighting fixtures are closed. They are not a seismic concern.

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

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

One of the washers used for mounting is rusty, but this is not a seismic concern.

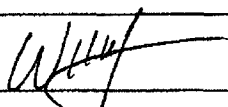
Other Adverse Conditions

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

Nothing anomalous was observed.

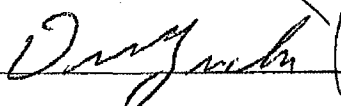
Comments (Additional pages may be added as necessary)

Evaluated by: Walter Diordjevic



Date: 10/25/12

Dennis Zercher



10-22-2012

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1LT-763 Equip. Class¹ (18) Instruments on Racks
Equipment Description 12 RX VSL HEAD DYNAMIC RNG TRN B D/P XMTR

Interaction Effects

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

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

The lighting fixture "S" hooks are closed and are not a seismic concern.

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

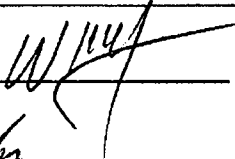
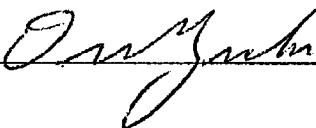
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Nothing anomalous was found.

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic  Date: 10/25/12
Dennis Zercher  10-22-2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1LT-920 Equip. Class¹ (18) Instruments on Racks

Equipment Description 11 RWST LVL XMTR

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area 11/12 SI Pump

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1LT-920 Equip. Class¹ (18) Instruments on Racks

Equipment Description 11 RWST LVL XMTR

Interaction Effects

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

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

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

The flex conduit loop and tubing have an adequate number of bends for flexibility.

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

Other Adverse Conditions

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

The SWE's noted some vertical grating that was used for access at one time. The level transmitter is in the zone of influence, but the grating is seismically anchored and is therefore acceptable.

Comments (Additional pages may be added as necessary)

There is a light fixture directly above the transmitter. The SWEs cannot confirm whether the "S" hooks are closed. Confirmation would require the use of a tall ladder or scaffolding. It is acceptable as it is.

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-26-12

Bruce M. Lory Bruce M. Lory Date: 10-24-12

~~SUNSI - WITHHOLD FROM PUBLIC DISCLOSURE~~

The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1LT-921 Equip. Class¹ (18) Instruments on Racks

Equipment Description 11 RWST LVL XMTR

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area 11/12 SI PUMPS

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1LT-921 Equip. Class¹ (18) Instruments on Racks

Equipment Description 11 RWST LVL XMTR

Interaction Effects

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

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

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

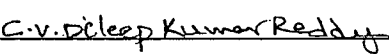
- 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce Lory  Date: 10-18-12

Dileep Cheropalle  10-18-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1NR3 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description NIS RACK III (BLU) 1NR3

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area CNTRL RM

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1NR3 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description NIS RACK III (BLU) 1NR3

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce M. Lory  Date: 11-01-12

Dileep Cherlopalle C.V. Dileep Kumar Reddy 11-1-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1PT-469 Equip. Class¹ (18) Instruments on Racks

Equipment Description 11 STM GEN LOOP A (CHNNL II-WHI) P XMTR

Location: Bldg. AUX Floor El. [REDACTED] Room, Area SOUTH EAST

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

It is mounted on a panel with four 1/4" diameter concrete expansion anchors.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A

The anchorage is clean and coated.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Drawing 92L370-2 was used for anchorage verification. It does not specify an anchor size. 1/4" anchors are typical detail for single instrument mounting.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1PT-469 Equip. Class¹ (18) Instruments on Racks

Equipment Description 11 STM GEN LOOP A (CHNNL II-WHI) P XMTR

Interaction Effects

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

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

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

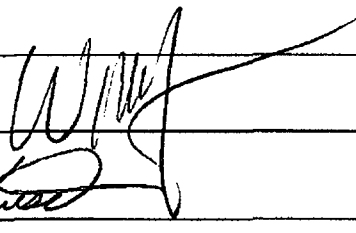
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic



Date: 11/5/12

Kyle Kriesel



Date: 10.25.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1PT-479 Equip. Class¹ (18) Instruments on Racks

Equipment Description 12 STM GEN LOOP B (CHNNL IV-YEL) P XMTR

Location: Bldg. AUX Floor El. [REDACTED] Room, Area NORTH EAST

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

It is anchored by four 1/4" diameter concrete expansion anchors. Pressure transmitter is mounted on a steel panel.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)

Drawing 92L 370-3 was used for anchorage verification. Anchor size is not specified on drawing, but 1/4" anchors are typical detail for single instrument mounting.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 1PT-479 Equip. Class' (18) Instruments on Racks

Equipment Description 12 STM GEN LOOP B (CHNNL IV-YEL) P XMTR

Interaction Effects

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

The "S" hooks on light fixtures are closed, so there is no seismic concern.

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

All welded steel piping is above with seismic restraints. There is not an issue.

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic

Date: 11-7-2012

Kyle Kriesel

Date: 11.6.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. B-1 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description CONTROL PANEL B-1

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area CNTRL RM

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. B-1 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description CONTROL PANEL B-1

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce M. Lory

Bruce M. Lory

Date: 10-19-12

Dileep Cherlopalle C.V. Dileep Kumar Reddy

10-19-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. B15 LOGIC-2 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description BUS 15 LOGIC RELAY CAB 2

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area BUS 15 SWG

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

One anchor bolt is missing out of the four anchors. Anchorage was verified against the SQUG SEWS which described the anchorage as three 1/2" diameter anchor bolts with one bolt missing. SWEs confirmed one anchor bolt was missing.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. B15 LOGIC-2 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description BUS 15 LOGIC RELAY CAB 2

Interaction Effects

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

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

A light fixture is touching the electrical conduits feeding the Bus 15 Logic Relay cabinet 2, which contains essential relays.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

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

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

Other Adverse Conditions

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

Cabinet internals were inspected and no loose or missing hardware for mounting internal components were found.

Comments (Additional pages may be added as necessary)

1. Foreign material was found inside the cabinet at the bottom (one screw and a piece of wire insulation).

WR 83773 has been initiated to remove the foreign material inside the cabinet.

2. Foreign material was found under the cabinet between Relay cabinet 1 and 2. It was removed by plant personnel.

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-29-12

Bruce M. Lory Rama M. Lory 11-01-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. CV-31059 Equip. Class¹ (07) Fluid Operated Valves

Equipment Description 11 TD AFW PMP TRIP THROTTLE CV

Interaction Effects

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

The light fixture has an open "S" hook. The remaining chain will ensure the equipment is not impacted, so there is no seismic concern.

CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

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

The sprinkler piping is rod hung and is not a seismic issue.

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

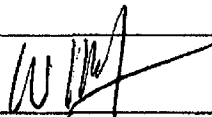
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Dordevic



Date: 11-5-12

Kyle Kriesel



Date: 10.25.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. CV-31153 Equip. Class¹ (07) Fluid-Operated Valves

Equipment Description 11 TD AFW PMP RECIRC/L-O CLG CV

Interaction Effects

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

The light fixture has no open "S" hooks.

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Diordjevic

Date: 11-5-12

Kyle Kriesel

Date: 10.25.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. CV-31423 Equip. Class¹ (07) Fluid Operated Valves

Equipment Description 12 DD CLG WTR JCKT CLR OUTL CV

Location: Bldg. SSCN Floor El. XXXXXXXXXX Room, Area 12 DD CLWP

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. CV-31423 Equip. Class¹ (07) Fluid Operated Valves

Equipment Description 12 DD CLG WTR JCKT CLR OUTL CV

Interaction Effects

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

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

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

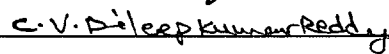
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce M. Lory  Date: 10-19-12

Dileep Cherlopalle  10-19-12

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The remaining pages are withheld from public disclosure.

Seismic Walkdown Checklist (SWC)

Equipment ID No. CV-31505 Equip. Class¹ (07) Fluid-Operated Valves

Equipment Description D1 DSL GEN CLG WTR SPLY CV

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area EDG D-1

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

There is a pipe support on valve body to Emergency Diesel Generator skid.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent with plant documentation? Y N U N/A
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. CV-31505 Equip. Class¹ (07) Fluid-Operated Valves

Equipment Description D1 DSL GEN CLG WTR SPLY CV

Interaction Effects

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

The overhead lighting fixture "S" hooks are closed.

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

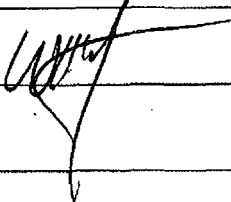
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A


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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic  Date: 10/25/12

Kyle Kriesel  10.24.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. CV-31652 Equip. Class¹ (07) Fluid-Operated Valves

Equipment Description 11 CLG WTR STRNR BCKWSH CV

Location: Bldg. SSCN Floor El. XXXXXXXXXX Room, Area SOUTH

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. CV-31652 Equip. Class¹ (07) Fluid-Operated Valves

Equipment Description 11 CLG WTR STRNR BCKWSH CV

Interaction Effects

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

Other Adverse Conditions

- 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U
The conduit feeding power to CV-31652 has one conduit clamp that is missing a nut. SWE's judge existing conduit configuration is still seismically adequate and acceptable. However, it is recommended that the nut is put back on.

CAP 1353581 has been initiated to evaluate this observation. Additionally, WR83924 has been initiated to address this observation.

Comments (Additional pages may be added as necessary)

SWEs noted that CV-31652 F/R and CV-31653 F/R are mounted to a single vertical unistrut with just one machine screw. The machine screws are not fully threaded into their associated nuts. Instead they are approximately half threaded into the nuts. SWEs judge current configuration as acceptable for seismic loading, but full thread engagement is needed.

CAP 1353368 has been initiated to evaluate this observation. Additionally, WR 83878 has been initiated to address this observation.

Evaluated by: Bruce Lory *Bruce Mc Lory* Date: 10-22-12

Dileep Cherlopalle *C.U. Dileep Kumar Reddy* 10-26-12

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The remaining pages are withheld from public disclosure.

Seismic Walkdown Checklist (SWC)

Equipment ID No. CV-31953 Equip. Class¹ (07) Fluid-Operated Valves

Equipment Description D1 DSL GEN AIR START CVA

Location: Bldg. TURB Floor El. [REDACTED] Room, Area EDG D-1

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. CV-31953 Equip. Class^t (07) Fluid-Operated Valves

Equipment Description D1 DSL GEN AIR START CV A

Interaction Effects

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

Soft targets are protected by a mesh guard anchored to skid walkway and floor checkered plate.

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

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

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

Other Adverse Conditions

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

An attached flex line touches the air operator but there is no opportunity for differential movement.

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic

Date: 11-5-12

Kyle Kriesel

Date: 10.26.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. CV-39401 Equip. Class¹ (07) Fluid-Operated Valves

Equipment Description 11/13 FCU CLG WTR SUPPLY CV

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area NORTH

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. CV-39401 Equip. Class¹ (07) Fluid-Operated Valves

Equipment Description 11/13 FCU CLG WTR SUPPLY CV

Interaction Effects

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

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

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

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

It appears that CV-39401 is in close proximity to or touching some rigid conduits. The conduits feed power to CV-39404 (12 FCU CHLD WATER SPPLY CV). During a seismic event, the valve may come into contact with the conduits.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

Other Adverse Conditions

- 11. Have you looked for and found no 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: Dileep Cherlopalle G.V. Dileepkumar Reddy Date: 10-24-12

Bruce M. Lory Bruce M. Lory 10-23-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. D-1 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description CONTROL PANEL D-1

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area CNTRL RM

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

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

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

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

- See SWC for E-1 component for anchorage description. Anchorage verification was performed using SQUG SEWs. The anchorage verification is confirmed.*

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. D-1 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description CONTROL PANEL D-1

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce Lory *Bruce M. Lory* Date: 11-13-12

Dileep Cherlopalle *C.V.DileepkumarReddy* Date: 11-9-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. D1/GEN RLY PNL Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description D1 DSL GEN RELAY PNL

Location: Bldg. TURB Floor El. [REDACTED] Room, Area EDG D-1

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

There are four 1/2" anchors.

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

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

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

Minor cracks were identified in the grout pad. The cracks are not a seismic concern.

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

SWEs used SQUG SEWS for anchorage verification.

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. D1/GEN RLY PNL Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description D1 DSL GEN RELAY PNL

Interaction Effects

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

The "S" hooks for lighting fixtures are closed.

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

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

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

Other Adverse Conditions

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

The internal components were inspected, and no anomalies were identified.

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic

Date: 11-5-12

Kyle Kriesel

10.26.12

~~SUNSI - WITHHOLD FROM PUBLIC DISCLOSURE~~

The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. E-1 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description CONTROL PANEL E-1

Location: Bldg. AUX Floor El. [REDACTED] Room, Area CNTRL RM

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

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

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

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

The SWELs referenced the SQUG SWELs for the anchorage verification. Each of the three bays contain six 3/8" diameter bolts (3 on the front side and 3 on the rear side) anchoring the panel to structural steel. The structural steel frame is welded to the steel floor plate using 2" by 1/4" fillet welds on 12" centers.

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. E-1 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description CONTROL PANEL E-1

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
The partition wall next to E-1 is missing all six floor bolts. The bolts connecting the partition wall to the vertical walls are in place. Is the partition wall seismically qualified in this configuration?

CAP 1357500 has been issued to track this issue.

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce Lory Bruce M. Lory Date: 11-02-12

Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 11-2-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. EM-B1 Equip. Class¹ (20) Instrumentation and Control Panels and Cabinets

Equipment Description EVENT MONITORING RACK EM-B1

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area TRN B EVENT MON

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

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

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

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

The SWEs referenced the SQUG SEWs for anchorage verification.
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

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

Seismic Walkdown Checklist (SWC)

Equipment ID No. EM-B1 Equip. Class: (20) Instrumentation and Control Panels and Cabinets

Equipment Description EVENT MONITORING RACK EM-B1

Interaction Effects

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

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

The area has restricted space that does not allow enough room to use a ladder to inspect the lighting fixture "S" hooks. This is not a seismic concern.

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

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

Other Adverse Conditions

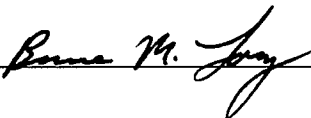
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

On the inside of EM-B1 there is a single screw and washer missing from the left vertical support. The remaining two screws and washers are present.

Site engineering reviewed this condition, and determined it is not a seismic concern. See appendix F for disposition of this observation. However, WR 83653 has been initiated to correct the condition.

Comments (Additional pages may be added as necessary)

Evaluated by: Dileep Cherlopalle C-V. Dileep Kumar Reddy Date: 10-26-12

Bruce Lory  Date: 10-26-12

~~SUNSI - WITHHOLD FROM PUBLIC DISCLOSURE~~

The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MCC 1T2/XFM SW Equip. Class¹ (04) Transformers

Equipment Description MCC 1T2 XFR SW

Location: Bldg. AUX Floor El. [REDACTED] Room, Area 122 CRM CHLR

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

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

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

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

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

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

Seismic Walkdown Checklist (SWC)

Equipment ID No. MCC 1T2/XFM SW Equip. Class¹ (04) Transformers

Equipment Description MCC 1T2 XFR SW

Interaction Effects

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

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

Regarding the light fixture, both of the bottom "S" hooks are open. During a seismic event the light fixture may fall on to the lever of the MCC 1T2 transfer switch and may trip the equipment. The light fixture is 52" above the disconnect which appears to be right underneath the light fixture. The power cord is hard wired to the ceiling and appears to have some slack.

CAP 1352001 has been initiated to evaluate the open "S" hooks identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address this observation.

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

There is foreign material behind the transfer switch 1, near the wall (an O ring that is red in color). It is a housekeeping issue, and not a seismic concern.

CAP 1352321 has been initiated to address the foreign material identified during these walkdowns.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MCC 1T2XFM SW Equip. Class^t (04) Transformers

Equipment Description MCC 1T2 XFR SW

Evaluated by: Dileep Cherlopalle C.V. Dileepkumar Reddy Date: 11-15-12

Bruce M. Lory Bruce M. Lory 11-15-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32017 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description LOOP B MN STM TO 11 TD AFWP MV

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
The rod support for the main steam isolation valve is within 1" of the handwheel. However, the restraints prevent sufficient axial movement to close the gap. It is not a seismic concern.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
A small line supplying power to the motor valve is in contact with the conduit, but it does not pose a credible seismic concern.
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
-

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic

Date: 10/25/12

Dennis Zercher

10-17-2012

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32025 Equip. Class¹ (08)Motor-Operated and Solenoid-Operated Valves

Equipment Description 11 TD AFW PMP SUCT CL SPLY MV

Interaction Effects

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

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

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

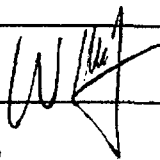
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic



Date: 11-5-12

Kyle Kriesel



Date: 10.25.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32034 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description 121 CLWP DSCH HDR MV 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

The fire protection piping with mechanical couples is far enough away to not pose an interaction hazard.

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic



Date: 10/25/12

Dennis Zercher



10-22-2012

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32077 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description SUMP B TO 11 RHR PMP TRN A (OUTSIDE) MV

Location: Bldg. AUX Floor El. [REDACTED] Room, Area 11/12 CNTM SPRY RM

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32077 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description SUMP B TO 11 RHR PMP TRN A (OUTSIDE) MV

Interaction Effects

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

The light fixtures have closed "S" hooks.

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

The scaffolding is erected properly. It is tagged and inspected.

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic

Date: 11-5-12

Kyle Kriesel

Date: 10.25.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32133 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description 11 FC CLG WTR RTRN ISOL MV B

Interaction Effects

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

*The rod hanger near the operator is restrained by the floor penetration.
It will not migrate towards the valve motor operator.*

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

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

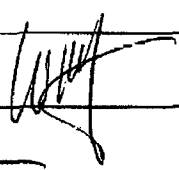
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

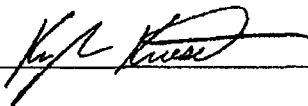
Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic



Date: 11-5-12

Kyle Kriesel



Date: 10.25.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32145 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description 11 CC HX CLG WTR INLET MV

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area 11/21 CC PUMP

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32145 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description 11 CC HX CLG WTR INLET MV

Interaction Effects

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

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

A light fixture in the area has open "S" hook. MV-32145 is not in its zone of influence, therefore no adverse seismic interaction concern.

CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce M. Lory

Bruce M. Lory

Date: 10-21-12

Dileep Cherlopalle *G.V. Dileep Kumar Reddy*

Date: 10-23-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32238 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description 11 AFW TO 11 SG MV

Interaction Effects

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

A light fixture south of the valve has an open "S" hook, but it is not a seismic hazard.

CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

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

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

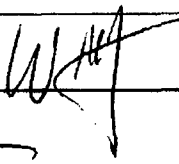
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic



Date: 11-5-12

Kyle Kriesel



Date: 10.25.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32242 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description 11/12 AFW TO 11 SG ISOL MV

Location: Bldg. AUX Floor El. [REDACTED] Room, Area DEMIN RMVL

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32242 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description 11/12 AFW TO 11 SG ISOL MV

Interaction Effects

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

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

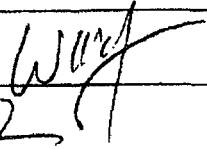

9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic  Date: 11/14/2012
Kyle Kriesel  Date: 11.9.12

SUNSI - WITHHOLD FROM PUBLIC DISCLOSURE

The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32380 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description 14 FC CLG WTR INLT ISOL MV

Location: Bldg. AUX Floor El. [REDACTED] Room, Area EAST

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32380 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description 14 FC CLG WTR INLT ISOL MV

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce Lory

Bruce M. Lory

Date: 10-17-12

Dileep Cherlopalle

c.v. Dileep Kumar Reddy

10-18-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32381 Equip. Class¹ (08)Motor-Operated and Solenoid-Operated Valves

Equipment Description 12 MD AFW PMP DISCH TO 11 SG MV

Location: Bldg. TURB Floor El. [REDACTED] Room, Area 11 AFWP

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32381 Equip. Class^t (08)Motor-Operated and Solenoid-Operated Valves

Equipment Description 12 MD AFW PMP DISCH TO 11 SG MV

Interaction Effects

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

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

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

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

The valve bodies of MV-32381 and MV-32382 are approximately 1/8" apart and may interact based on piping analysis displacement.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

Other Adverse Conditions

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

Fire Protection piping is less than one foot away. It is welded steel and, therefore, acceptable. The fire protection sprinkler is not immediately above MV-32381 and is therefore adjudged acceptable.

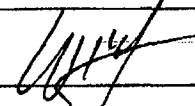
Comments (Additional pages may be added as necessary)


Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. MV-32381 Equip. Class¹ (08)Motor-Operated and Solenoid-Operated Valves

Equipment Description 12 MD AFW PMP DISCH TO 11 SG MV

Evaluated by: Wally Djordjevic  Date: 10/25/12

Dennis Zercher  Date: 10-22-2012

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. PNL 133/XFMR Equip. Class¹ (04) TRANSFORMERS

Equipment Description DIST PNL 133 XFMR

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
No impact concerns were observed.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Welded piping with flanged valves, cable trays, and conduits are all ductile and seismically acceptable.

Block wall number 8, adjacent to F9, is safety-related.

9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
The lines are rigidly mounted to column F9.

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic  Date: 10/25/12

Dennis Zercher  10-17-2012

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. PNL 136/XFMR Equip. Class¹ (04) Transformers

Equipment Description DIST PNL 136 XFMR

Location: Bldg. SSCN Floor El. XXXXXXXXXX Room, Area SOUTH

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. PNL 136/XFMR Equip. Class¹ (04) Transformers

Equipment Description DIST PNL 136 XFMR

Interaction Effects

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

The transformer does not contain any soft targets.

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

SWEs noted that the fire protection piping above the transformers contains one victaulic coupling on a 6" fire protection line. This line is configured as 1" rod hung and it penetrates the nearby wall. Therefore relative angular movement of the coupling is minimal and is not a seismic adverse condition.

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-25-12

Bruce Lory Bruce M. Lory Date: 10-24-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. PNL 191 Equip. Class¹ (14)Distribution Panels

Equipment Description DC DISTRIBUTION PANEL 191

Location: Bldg. AUX Floor El. [REDACTED] Room, Area 11 RWST

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

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

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

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

Anchorage was verified using DC -80Y151, Appendix II6, Attachment 2, which shows four 1/2" diameter wedge anchors.

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. PNL 191 Equip. Class¹ (14)Distribution Panels

Equipment Description DC DISTRIBUTION PANEL 191

Interaction Effects

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

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

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

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

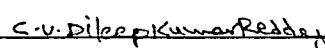
Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U
The cabinet was inspected internally and no loose or missing component mounting hardware was found.

Comments (Additional pages may be added as necessary)

The cabinet was inspected internally and is acceptable.

Evaluated by: Bruce Lory  Date: 10-29-12

Dileep Cherlopalle  Date: 10-24-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. RS-21-1 Equip. Class¹ (07) Fluid-Operated Valves

Equipment Description 11 SG MS HDR RELIEF

Location: Bldg. AUX Floor El. [REDACTED] Room, Area DEMIN RMVL

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. RS-21-1 Equip. Class¹ (07) Fluid-Operated Valves

Equipment Description 11 SG MS HDR RELIEF

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic

Date: 11/14/2012

Kyle Kriesel

Date: 11.9.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. SA-54-3 Equip. Class¹ (07) Fluid Operated Valves

Equipment Description D1 DSL GEN MAIN AIR RCVR RELIEF

Location: Bldg. TURB Floor El. [REDACTED] Room, Area EDG D-1

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. SA-54-3 Equip. Class' (07) Fluid Operated Valves

Equipment Description D1 DSL GEN MAIN AIR RCVR RELIEF

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic

Date: 10/25/12

Dennis Zercher

10-17-2012

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. SV-33186 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description D1 DSL GEN WTR SPLY SV

Location: Bldg. TURB Floor El. [REDACTED] Room, Area EDG D-1

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. SV-33186 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description D1 DSL GEN WTR SPLY SV

Interaction Effects

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

Soft targets are protected by the Emergency Diesel Generators checked plate walkway.

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

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

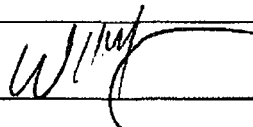
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic



Date: 10/25/12

Kyle Kriesel



Date: 10.24.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. SV-33242 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description D1 DSL GEN AIR START VENT SV

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area EDG D-1

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. SV-33242 Equip. Class: (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description D1 DSL GEN AIR START VENT SV

Interaction Effects

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

Soft targets are protected beneath emergency diesel generator checkered plate walkway.

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

They are mounted on angle iron welded to skid.

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

Attached lines are rigidly mounted.

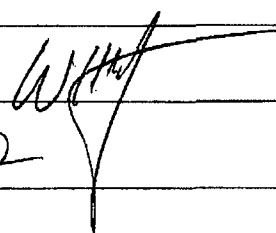
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic



Date: 10/25/12

Kyle Kriesel



Date: 10.24.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. SV-33343 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description 11 CLG WTR STRNR BCKWSH SV

Location: Bldg. SSCN Floor El. XXXXXXXXXX Room, Area SOUTH

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
Solenoid valve is line mounted as a cantilever using 1/2" tubing by 8" long to an associated actuator. SWE's judge cantilever mounting as rigid and seismically qualified. The tubing connected to solenoid valve is supporting out the other end.

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. SV-33343 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description 11 CLG WTR STRNR BCKWSH SV

Interaction Effects

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

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

9. Do attached lines have adequate flexibility to avoid damage?
Good loop on flex conduit. Y N U N/A

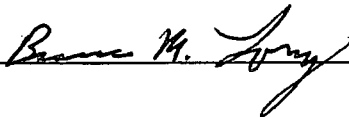
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

11. Have you looked for and found no 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: Bruce M. Lory



Date: 10-18-12

Dileep Cherlopalle

C.V. Dileep Kumar Reddy

10-18-12

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The remaining pages are withheld from public disclosure.

Seismic Walkdown Checklist (SWC)

Equipment ID No. SV-33694 Equip. Class¹ (00) Other

Equipment Description 11 SFGDS SCRNHSE ROOF EXHT FAN CD-34137 SV

Location: Bldg. SSCN Floor El. [REDACTED] Room, Area SOUTH

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. SV-33694 Equip. Class¹ (00) Other

Equipment Description 11 SFGDS SCRNHSE ROOF EXHT FAN CD-34137 SV

Interaction Effects

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

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

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

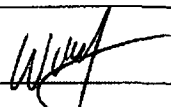
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic



Date: 10/25/12

Dennis Zercher



10-17-2012

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The remaining pages are withheld from public disclosure.

Seismic Walkdown Checklist (SWC)

Equipment ID No. SV-37025 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description 122 CONT RM AIR HNDLR OA SPLY CD-34145 SV

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area 122 CRM CHLR

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. SV-37025 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description 122 CONT RM AIR HNDLR OA SPLY CD-34145 SV

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Dileep Cherlopalle C.V. Dileepkumar Peddy Date: 10-18-12

Bruce Lory Bruce M. Lory 10-18-12

~~SUNSI - WITHHOLD FROM PUBLIC DISCLOSURE~~

The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. SV-37462 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description UNIT 1 TRAIN A CHILL WTR/CLG WTR ISOL SV

Location: Bldg. AUX Floor El. [REDACTED] Room, Area 12 CHRG PMP

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. SV-37462 Equip. Class¹ (08) Motor-Operated and Solenoid-Operated Valves

Equipment Description UNIT 1 TRAIN A CHILL WTR/CLG WTR ISOL SV

Interaction Effects

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

The lighting fixture has closed "S" hooks.

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

Block walls are safety related (block wall number 35).

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

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

Other Adverse Conditions

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

It is mounted on a panel and secured by four 1/4" diameter concrete expansion anchors.

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic

Date: 11-5-12

Kyle Kriesel

Date: 10.25.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. VC-28-2 Equip. Class¹ (07) Fluid-Operated Valves

Equipment Description 12 CHG PMP DISCH RELIEF

Location: Bldg. AUX Floor El. [REDACTED] Room, Area 12 CHRG PMP

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

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

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

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

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

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. VC-28-2 Equip. Class¹ (07) Fluid-Operated Valves

Equipment Description 12 CHG PMP DISCH RELIEF

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Operator is braced from rigid adjacent pump and is ok.

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

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


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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic  Date: 11-5-12

Kyle Kriesel  10.25.12

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Seismic Walkdown Checklist (SWC)

Equipment ID No. 035-012 Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description 122 SFP HX

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 035-012 Equip. Class¹ (21) Tanks and Heat Exchangers

Equipment Description 122 SFP HX

Comments (Additional pages may be added as necessary)

1. *There is a small area with concrete spalling (about 1" by 3" and 1/4" deep). It is not a seismic concern.*

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

2. *There is an abandoned hanger rod in the ceiling (red tape on the tip) above HX.*

It is not a seismic concern, but CAP 01352373 has been initiated to evaluate this observation for potential personal safety when assembling scaffolds or performing overhead work. Off of this action request, WR 83651 has been initiated to address this observation.

3. *It appears that the valve CC-43-2 has a tie wrap around it for a wheel lock.*

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

4. *There is a bolt missing in a base plate next to MCC 1GA BUS 1.*

WR 83744 has been issued to replace the missing nut. CAP 01352717 has been issued to document the discrepancy. The MCC is not safety related and the missing nut will not have any effect on operability or functionality of the adjacent MCC. It also does not pose any safety hazard.

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-29-12

Bruce M. Lory Bruce M. Lory Date: 11-01-12

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Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 045-102 Equip. Class¹ (05)Horizontal Pumps

Equipment Description 122 SFP PMP

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area SFP 2

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

One of the nuts is flush with the anchor bolt. There are no threads projected beyond the nut. The bolt has the full thread engagement, but no extruding threads. The SWEs judge this as acceptable. It is not a seismic concern.

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

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

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

Referenced drawing NF-38313-1 for verification. It shows six 3/4" bolts for the pump.

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

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

Seismic Walkdown Checklist (SWC)

Equipment ID No. 045-102 Equip. Class¹ (05)Horizontal Pumps

Equipment Description 122 SFP PMP

Interaction Effects

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

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U
The yoke pins for SF-26-2 and SF-26-4 do not have a retaining mechanism (cotter pin, bolt, etc.).

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

Comments (Additional pages may be added as necessary)

- 1 *The cover between the motor and pump is tied with two steel tie wraps. SWEs questioned whether or not this configuration is acceptable for seismic conditions. After evaluation by site engineering, it was concluded that in a seismic event, the lightweight plastic guard will move with the pump. Since the guard is made of flexible plastic, the force required to break it would be well beyond the force produced by a design basis earthquake. It is not a seismic concern.*
- 2 *There is boric acid present between the body and cap of the SF pump. This condition was identified previously under CAP 01285680 and evaluated under WR 067821.*

Status: Y N U

Seismic Walkdown Checklist (SWC)

Equipment ID No. 045-102 Equip. Class¹ (05)Horizontal Pumps

Equipment Description 122 SFP PMP

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-29-12

Bruce Lory Bruce M. Lory 11-01-12

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C

Area Walk-By Checklists (AWCs)

This appendix provides the Area Walk-By Checklists (AWC) completed as of November 9, 2012 for PINGP. Table C-1 provides the building, elevation, and location of each area as well as a list of SWEL items associated with each area, and whether or not the checklist was marked as "Y" or "N" (the checklist status).

The AWCs are provided after this table, and are in the same chronological order as listed in the table below.

This table and the following AWCs include information on the location of SWEL components, which is considered Sensitive Unclassified Non-Safeguards Information (SUNSI), of which the loss, issue, modification, or unauthorized access can reasonably be foreseen to harm the safe operation of the nuclear plant. Pages which contain proprietary information have been marked, and the sensitive information has been redacted.

Pages which contain proprietary SUNSI information have been marked.

Table C-1: Prairie Island Unit 1 Completed AWCs				
Area Walk-By Designation	Description	Equipment Tag(s)	Comments	Checklist Status (Y/N)
1	AUX 11/12 CNTM SPRAY	MV-32077		Y
2	AUX 11/12 SI PUMPS	145-071		Y
		1LT-920		
		1LT-921		
3	AUX 11/21 CC PMP	MV-32145		N
4	AUX 12 CHR G PUMP	145-042		Y
		SV-37462		
		VC-28-2		

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Table C-1: Prairie Island Unit 1 Completed AWCs				
Area Walk-By Designation	Description	Equipment Tag(s)	Comments	Checklist Status (Y/N)
5	AUX 12/22 CC PUMP	145-122		N
6	AUX NE	CV-39401		Y
7	AUX NE	1PT-479		N
		MV-32380		
8	AUX RELAY	1ASG1		N
9	AUX 11 RWST	PNL 191		N
10	AUX SE	1PT-469		N
11	AUX 112 BUS	112M/XFMR		N
12	AUX 122 BUS	122M/XFMR		Y
13	AUX A E-MON	174-162		N
14	AUX B E-MON	EM-B1		N
15	AUX CNTRL RM	1NR3		N
		B-1		
		D-1		
		E-1		
16	AUX DEMIN	MV-32242		N
		RS-21-1		
17	AUX EAST	1LT-762		Y
		1LT-763		
		MV-32017		

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Table C-1: Prairie Island Unit 1 Completed AWCs				
Area Walk-By Designation	Description	Equipment Tag(s)	Comments	Checklist Status (Y/N)
		MV-32133		
18	AUX 122 CRM CHILLER	57304		Y
		032-292		
		045-592		
		053-382		
		069-242		
		076-022		
		MCC 1T2/XFR SW		
		SV-37025		
19	SSCN 12 DD CLWP	70300		N
		053-321		
		135-101		
		145-392		
		CV-31423		
20	SSCN SOUTH	22024		Y
		158-011		
		CV-31652		
		MV-32034		

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Table C-1: Prairie Island Unit 1 Completed AWCs				
Area Walk-By Designation	Description	Equipment Tag(s)	Comments	Checklist Status (Y/N)
		PNL 136/XFMR		
		SV-33343		
		SV-33694		
21	TURB 11 AFWP	117-111		N
		145-201		
		CV-31059		
		CV-31153		
		MV-32025		
		MV-32238		
		MV-32381		
		PNL 133/XFMR		
22	TURB 12 BATT	12 BATT		Y
		12 BATT CHG		
23	TURB EDG D-1	22017		N
		55000		
		55400		
		032-011		
		032-041		
		034-011		

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Table C-1: Prairie Island Unit 1 Completed AWCs				
Area Walk-By Designation	Description	Equipment Tag(s)	Comments	Checklist Status (Y/N)
		046-031A		
		053-201		
		CV-31505		
		CV-31953		
		D1/GEN RLY PNL		
		SA-54-3		
		SV-33186		
		SV-33242		
24	TURB 11 BATT	11 BATT		Y
25	TURB BUS 111	111M/XFMR		N
26	TURB BUS 15	174-031		N
		B15 LOGIC-2		
27	TURB ROD DRIV	125MR		Y
28	AUX SFP HX 122	035-012	SWEL 2	N
29	AUX SFP PUMP 122	045-102	SWEL 2	N

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 11/12 CNTM SPRAY

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

The abandoned hanger near sandbag block out on west wall is evaluated. There is no seismic concern.

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

The light fixture is disconnected on one side from its support and is laying on temporary scaffolding. The scaffold prevents the light fixture from falling on the 11 containment spray pump. There is no seismic concern with this light fixture.

Various maintenance activities were occurring during the performance of the area walkby.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area' 11/12 CNTM SPRAY

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

No fire protection piping was observed in the area.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

Various maintenance activities were occurring when performing the area walkby. No seismic issues were identified.

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

The unrestrained chain falls are not a seismic concern, but the SWEs noted that it would be good housekeeping to keep the chain falls tied off. No action is required.

Comments (Additional pages may be added as necessary)

The drip pan beneath the 12 containment spray pump is missing a bolt on the south side.

CAP 01353388 has been initiated to evaluate this observation. In addition to writing an action request, WR 83885 has been initiated to address this observation.

There is an abandoned pipe hanger near the north wall, but it is not a seismic concern.

Evaluated by: Wally Djordjevic

Date: 11/5/12

Kyle Kriesel

Date: 10.25.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 11/12 SI PUMPS

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

The pressure gauge (18351) wall bracket next to electric panel JB A1813 in 12 SI pump room is missing one out of four bolts. The bolt appears to be sheared off. The SWEs judge that the remaining three bolts possess sufficient seismic capacity to hold the gauge in place during a design basis seismic event..

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 11/12 SI PUMPS

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

1. The valve turn nut, which is not part of the present equipment, was found behind 1160 Barton pressure gauge wall bracket. Plant personnel removed this foreign material.

2. An oil can was found supported from unistrut. SWEs judged this configuration as acceptable.

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

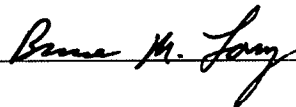
Comments (Additional pages may be added as necessary)

1. There were 3 plastic barrels tied with a rope to a 6" SS pipe next to 11RWST. It needs to be verified that this is acceptable to tie them to this pipe.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

2. A flow meter is chained to a 4" line in the ceiling approximately 15' above the 12 safety injection pump at the divider wall next to valve SI-20-69. The seismic loads for this piping are evaluated, and this configuration is seismically acceptable.

Evaluated by: Bruce Lory



Date: 11-01-12

Dileep Cherlopalle

C-V. Dileep Kumar Reddy

Date: 10-30-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 11/21 CC PUMP

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

It appears that CS-19543 is not anchored to the wall. There are four external holes in the bracket for fasteners but no fasteners are present.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 11/21 CC PUMP

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

Two drums are present under the component cooling heat exchanger to collect leak off. The drums are poorly tied off by rope to a small copper drain line for the 11 component cooling pump unit cooler.

CAP 01353280 has been initiated to evaluate this observation. In addition to writing the action request, WR 83853 has been initiated to address the observation.

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

One of the two floor brackets for the unistrut that supports the component cooling motor power cables appears to be bent and the anchor is loose. There is a tygon tube wedged under the corner.

CAP 1353327 has been initiated to evaluate this observation. In addition to writing the action request, WR 83865 has been initiated to address the observation.

Comments (Additional pages may be added as necessary)

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 11/21 CC PUMP

Evaluated by: Bruce Lory Bruce M. Lory Date: 11-01-12

Dileep Cherlopalle C.V. Dileep Kumar Reddy 10-29-12

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Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 12 CHRG PUMP

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

Block wall number 19 is safety related and is not a seismic concern.

The lighting fixtures in the area have open "S" hooks but these are not deemed a seismic hazard.

CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WFR 83556 has been initiated to address these observations.

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

No fire protection piping is observed.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 12 CHRG PUMP

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

Radiation signs are not anchored, but have a wide base. Also, a wrench was found on a step ladder in the area. Neither of these items are a seismic concern, as they are away from equipment.

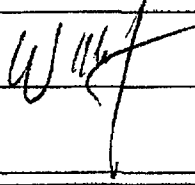
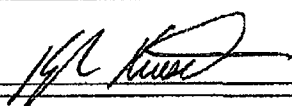
Additionally, the chiller in the area has missing bolts on the shroud.

WR 84671 has been initiated to address this observation on the chiller.

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

There are some abandoned wall supports but they are not a seismic concern.

Comments (Additional pages may be added as necessary)

Evaluated by: <u>Wally Djordjevic</u>		Date: <u>11/14/12</u>
<u>Kyle Kriesel</u>		Date: <u>10.30.12</u>

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Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 12/22 CC PUMP

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

The 22 component cooling pump motor unit cooler is supported by rod hangers from the ceiling. This is located near the 22 component cooling pump, six feet above the 695' floor. This unit cooler is close to the rigging I-beam on the one side and the 4" component cooling line on the other side. Seismic movement may cause the unit cooler to bump into the I-Beam and the component cooling line. The drain line from the unit cooler may break as well.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 12/22 CC PUMP

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

A ladder is stored underneath the 22 component cooling heat exchanger in an unapproved storage location. It is not a seismic interaction issue, but may be a housekeeping concern. The ladder has a note which states "Staged for Ops to access mez. deck, do not remove."

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

Comments (Additional pages may be added as necessary)

A top cover plate wingnut is missing from the 2RE-39 radiation monitor. There is also a loose screw on the side door cover. The monitor is resting on the floor near the wall, and is located between the 22 component cooling pump and the stairs to the upper level.

Site engineering evaluated this observation and concluded that the radiation monitor is not safety related. WR 83571 was initiated to replace the wingnut and tighten the loose screw. CAP 01352076 was initiated to document the observation.

Evaluated by: Bruce M. Lory *Bruce M. Lory* Date: 11-01-12

Dileep Cherlopalle *C.V. Dileep Kumar Reddy* Date: 10-29-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ NORTH EAST

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

1. The auxiliary building special vent zone boundary line hanger rod is in contact with component cooling line at hanger location 1-CCH-185. The hanger rod can flex during a seismic event, so there are no seismic concerns.

2. The light fixture above the "VFD" cabinets for 11 and 13 charging pumps is close (roughly 1" gap) to the conduits running into the top of the VFDs.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ NORTH EAST

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

1. Duct tape needs to be removed from the special vent zone line discussed in question 4.

The foreign material on the special vent line is a housekeeping issue and has no impact on the equipment. CAP 1352391 was initiated to document this observation.

2. There are two abandoned hanger rods above the component cooling line with hanger rod 1-RHRH-385 near MCC1K BUS 2.

Site engineering evaluated the two abandoned hangers rods and concluded there were no seismic concerns. However, CAP 01352549 and WR 83712 were initiated to remove the hanger rods for personnel safety reasons during scaffold construction or overhead work.

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

An RP monitor table is next to the wall with its wheels locked. It is not close to any safety related equipment and is thus acceptable. No action is required.

Comments (Additional pages may be added as necessary)

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area NORTH EAST

Evaluated by: Dilepp Cherlopalle C.V. Deleep Kumar Peddy Date: 10-26-12

Bruce Lory Bruce M. Lory 10-23-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area¹ NORTH EAST

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ NORTH EAST

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

SWEs noted a welded fire protection line (4") in contact with an HVAC duct, above the high temperature alarm panel 1. SWEs judge that this contact is acceptable since the interaction is ductile and the HVAC duct is rod hung.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

There were scaffold carts within 2" of touching the MCC 1L, Bus 2. The cart wheels are chocked but in the wrong orientation. The cart configuration allowed the cart to slide into the MCC. The condition was fixed upon discovery. Site personnel chocked the wheels in the acceptable orientation.

CAP 1355467 has been initiated to document this condition.

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

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce M. Lory  Date: 10-24-12

Dennis Zercher  Date: 11-4-2012

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ RELAY

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

Terminal Box A-1749 (terminal box for high flux) is missing an anchor bolt to wall at the lower right corner. Other three bolts are in place, therefore SWEs judged that the terminal box is seismically anchored to the wall and is acceptable.

WR 83891 has been initiated to address the missing anchor bolt.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area RELAY

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

Comments (Additional pages may be added as necessary)

SWEs identified the following foreign materials during their walkby:

- 1. Foreign material found in the upper right unistrut of terminal box A-1749.
- 2. Cigarette butt found (see attached photos).

Plant personnel removed the above foreign material after it was identified.

Evaluated by: Bruce M. Lory *Bruce M. Lory* Date: 10-21-12

Dileep Cherlopalle *C.V. Dileep Kumar Reddy* 10-29-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area: 11 RWST

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

There is an abandoned light fixture behind the MCG/J Bus with open "S" hooks.

CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

1. There are open "S" hooks on a light fixture above the PT-948 panel.

2. There is also a disconnected light fixture chain near panel 191.

CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 11 RWST

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

The fire protection piping is a deluge system, so the line is dry. It is not a seismic issue.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

Flammable cabinet is unanchored but it will not tip over, so it is not a seismic concern.

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

Dollies are stored too close (<12") to 11 H2 recombination cabinet. The housekeeping procedure requires a 12" offset. The condition was fixed on the spot to achieve a 12" spacing.

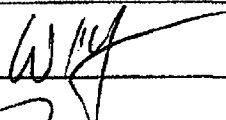
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

A tool cart was too close to the tubing raceway entering containment penetrations. The condition was fixed on the spot.

Comments (Additional pages may be added as necessary)

A crash cart was near sample lines, but it was not deemed a seismic hazard since the sample lines are not safety related.

Evaluated by: Walter Djordjevic



Date: 11/14/2012

Kyle Kriesel



Date: 10.30.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ SOUTH EAST

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

An anchor bolt is missing on pipe support number 1-CCH-311.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

An anchor is missing on a stanchion beneath the 121 Loop "A" Main Steam isolation valve drain line.

CAP 1353371 has been initiated to evaluate this observation. Additionally, WR 83874 has been initiated to address this observation.

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

There is an abandoned light fixture in the overhead near pipe support 1-CCH-311. It is unattached and should be removed.

CAP 1353409 has been initiated to evaluate this observation. Additionally, WR 83892 has been initiated to address this observation.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ SOUTH EAST

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

No fire protection piping was observed.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic

Date: 11/5/12

Kyle Kriesel

Date: 10.25.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 112 BUS

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

There are open "S" hooks on light fixtures. The light fixtures could be a hazard to Bus 112, but not the transformer.

CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 112 BUS

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

The supply and return line piping is ductile and will not pose a spray down or flooding hazard in room.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic

Date:

11-7-2012

Kyle Kriesel

11.2.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 122 BUS

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

The unit cooler in the 122 BUS room has a brace that is attached to the wall with four base plates. One of the plates seems to be bent and there is a 1/4" gap between the plate and the wall.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area' 122 BUS

- 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

The unit cooler supply and return lines (hanger number 1-RHRH-656) are unsupported laterally across the entire room. If the line breaks during a seismic event, there are no floor drains in the room and flooding may occur.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

- 6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

- 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

A pig tail of a cable was noticed in the ceiling next to the unistrut support. It is not a seismic concern.

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

Comments (Additional pages may be added as necessary)

Evaluated by: Dileep Cherlopalle C-V. Dileep Kumar Reddy Date: 11-9-12

Bruce Lory Bruce M. Lory Date: 11-13-12

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ A E-MON

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

Behind the cabinet RMU2N, one wing nut holding the emergency battery EL-28 is missing.

EL-28 is a non-safety related light. It is located in the train A event monitoring room. The event monitoring equipment located in this room is within cabinets and would not be impacted should the light fall during a seismic event. WR 83724 was initiated to replace the missing nut.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area A E-MON

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A
The water piping is seismically braced.

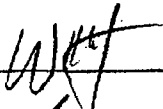
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

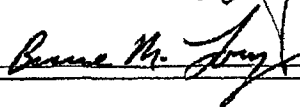
Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic



Date: 11/14/12

Bruce M. Lory



10-24-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ B E-MON

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

The light fixture hanging from the ceiling is about 3" to 6" from an electrical box that is connected to panel 219. During a seismic event the fixture may hit the electrical box.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ B E-MON

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

If the unit cooler supply and return lines break during a seismic event, it may result in flooding the room. There is no floor drain in the train B event monitoring room. Reference hangers 2-RHRH-453, 2-RHRH-448, 2-RHRH-449, and 2-RHRH-454.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

Comments (Additional pages may be added as necessary)

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-30-12

Bruce M. Lory Bruce M. Lory Date: 11-01-12

~~SUNSI - WITHHOLD FROM PUBLIC DISCLOSURE~~

The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor Bl. [REDACTED] Room, Area: CNTRL RM

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

There are lighting diffusers tied off to the support grid. Unit 1 and Unit 2 "C" panels have a fluorescent light fixture on chains too close (within 1"-2") to the panel.

CAP 01352209 has been inflated to evaluate this observation.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. Room, Area: CNTRL RM

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

1. The trash can next to the racks R23, R24, R13, and R14 are immediately adjacent to the racks, which violates the seismic housekeeping procedure.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

2. Step ladder adjacent to racks R23, R24, R13 and R14 is also too close to the racks. The wheels should be chocked.

WR 83584 has been initiated to address this observation.

3. There were several open S-hooks on light fixtures (nearest the panel in most cases).

CAP 01352001 was initiated to evaluate this observation. Off of CAP 01352001, WR 83556 was initiated to address this observation.

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

Unit 1 and Unit 2 "E" panels have side panels that have sld out of position. This is a housekeeping issue and not a seismic concern.

CAP 01352102 has been initiated to evaluate this observation. In addition to writing an action request, WR 83579 has been initiated to address this observation.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area: CNTRL RM

Comments (Additional pages may be added as necessary)

Some desks are secured to the wall. Not a seismic concern.

1. *The filing cabinets adjacent to the main control board in both Unit 1 and Unit 2 are close to the main control board.*

CAP 1357683 has been initiated to evaluate this observation.

2. *A set of drawers next to the in-core logic selection switch panel are close to the panel.*

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

3. *The cart adjacent to the Protection Systems III and the cart adjacent to cabinets RPI-1, -2, and -3 in Unit 1 are close to the equipment. The chain is not used to restrain the carts.*

CAP 1357686 has been initiated to evaluate this observation..

4. *Fire extinguisher bracket 224 has a rotated bracket (into the insulation) and should be repaired.*

WR 83584 has been initiated to address this observation.

Evaluated by: Walter Djordjevic

Date: 11/14/2012

Dennis Zercher

Date: 11-15-2012

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ DEMIN

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

- 1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

- 2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

- 3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

- 4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

1. A light fixture has an open "S" hook near FWH-67. The fixture is not near any equipment, so no action is needed.

CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

2. There are light fixtures with open "S" hooks near the loop "A" main steam safety header.

See response above for roll-up CAP written on open "S" hooks.

3. The piping attached to the unit heater (Steam) has sufficient flexibility to accommodate unit heater displacement, so it is acceptable.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area' DEMIN

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

All of the piping is seismically designed.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

A wood 10"x20" insert on the floor next to the grating is a combustible.

CAP 1353367 has been initiated to evaluate this observation. Additionally, WR 83876 was initiated to address the observation.

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

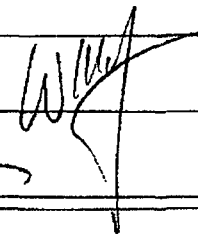
Temporary storage of pipe segment with a wire is acceptable. It is near the safety valves.


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

The cable trays adjacent to the south wall house cables which are resting on top of, and out of, a tray that is unrestrained laterally.

CAP 1353415 has been initiated to evaluate this observation. Additionally, WR 83893 was initiated to correct this condition.

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic  Date: 11/14/2012

Kyle Kriesel  Date: 10.30.12

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The remaining pages are withheld from public disclosure.

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ EAST

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

1. A Greenlee box is greater than 10 feet away from RVLS LT's, so it is not a seismic concern. The wheels are not locked.

2. The chainfall near 1FT-466 is greater than two feet away, and is not considered a seismic concern, but it should be restrained as a good housekeeping practice.

3. The MCC cubicle C4 door is loose, but a work tag has already been affixed to spare door. No additional review is needed, as it is already in the site process.

4. There are open "S" hooks on the lighting in the area above MV-32024. This is not a seismic concern as the lighting will not adversely effect MV-32024.

CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El [REDACTED] Room, Area EAST

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

The fire protection piping near the elevator is laterally restrained.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

See comments in question 4 above.

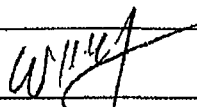
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

There are two loose 1/4" concrete anchors on the bracket supporting PI-17652.

WR 83868 has been initiated to address the observation.

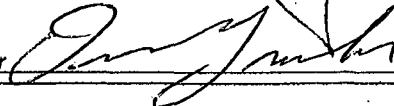
Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic



Date: 11/14/2012

Dennis Zercher



Date: 11-26-2012

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area¹ 122 CRM CHLLR

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ 122 CRM CHLLR

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

Comments (Additional pages may be added as necessary)

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-24-12

Bruce Lory Bruce M. Long 10-23-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. SSCN Floor El. [REDACTED] Room, Area¹ 12 DD CLWP

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

The 121 filtered water strainer adjacent to the diesel oil day tank skid has corroded anchors (wet environment). The corrosion is not significant and only requires cleaning and re-coating. The anchorage of the diesel driven cooling water pump also shows slight corrosion, as it is in a wet environment.

CAP 1352851 was initiated to document this observation, and WR 83771 was initiated to address the corrosion.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

The pipe support on the floor adjacent to 121 filtered water strainer is also slightly corroded and in a wet environment.

This observation was addressed in question 1.

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. SSCN Floor El. [REDACTED] Room, Area¹ 12 DD CLWP

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

The fire protection piping is on short rods, so the mechanical couplings do not pose a spraydown threat.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

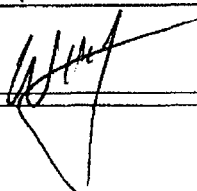
Comments (Additional pages may be added as necessary)

Evaluated by: Dennis Zercher



Date: 10.22.2012

Walter Djordjevic



10/25/12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. SSCN Floor El. [REDACTED] Room, Area¹ SOUTH

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. SSCN Floor El. [REDACTED] Room, Area SOUTH

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

The fire protection piping is on short rods, so the bending moments will be such that it will not fail the mechanical couplings.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

The gas bottles are well restrained.

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

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic

Date: 10/25/12

Dennis Zercher

10-22-2012

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area¹ 11 AFWP

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

There is a missing fastener on the guard for 121 instrument air compressor.

CAP 1352975 has been initiated to evaluate this observation. Additionally, WR 83793 has been initiated to address this observation.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

There are open "S" hooks on the lighting fixtures near the 11 turbine driven auxiliary feedwater pump. The light fixtures would only swing, and would not impact equipment other than nearby piping or conduits. It is not a seismic concern.

CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. [REDACTED] Room, Area¹ 11 AFWP

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

The fire protection header receives lateral support from the walls. There are no seismic issues.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

The scaffolding is tied off appropriately.

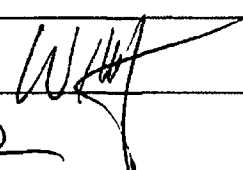
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

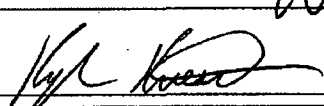
- 1. The scaffolding is tied off appropriately.*
- 2. The chainfall north of PNL 133 is tied off around the conduit support and is acceptable.*
- 3. The chainfall for 2AF01301 can potentially strike MCC 1A BUS 1. CAP 1352961 has been initiated to evaluate this observation. Additionally, WR 83796 has been initiated to address this observation.*

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

Comments (Additional pages may be added as necessary)

- 1. There was a wrench found and removed from behind the wall mounted panel indicator, PI11167.*
- 2. There was a wrench found and removed from behind the local alarm panel 70550.*
- 3. The cable coil adjacent to 122 air compressor panel is acceptable.*
- 4. The abandoned light fixture chain near MV-32025 is not a seismic issue.*

Evaluated by: Walter Djordjevic  Date: 11/5/12

Kyle Kriesel  Date: 10.25.12

~~SUNSI - WITHHOLD FROM PUBLIC DISCLOSURE~~

The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. [REDACTED] Room, Area¹ 12 BATT

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. [REDACTED] Room, Area¹ 12 BATT

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

The eyewash station is adequately secured to the wall. Water supply on the cart is secured with a bungee cord.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

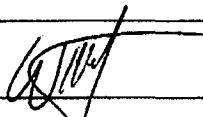
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

As a precaution, the SWEs recommend closing the door pulley "S" hook above door 228.

CAP 1352343 and WR 83645 have been initiated to address this observation.

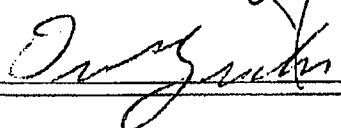
Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic



Date: 10/25/12

Dennis Zercher



10-22-2012

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor Bl. [REDACTED] Room, Area¹ EDG D-1

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

There is a possible open "S" hook on a light fixture above the diesel generator control panel.

CAP 1352001 has been initiated to evaluate the open "S" hooks identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address the observation.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. [REDACTED] Room, Area: EDG D-1

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

The fire protection system is a deluge system, so it is not charged. It is acceptable.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

All of the oil reservoirs (fuel) are well secured and anchored.

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

The scaffolding is seismically acceptable.

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

The unit steam heater piping can accommodate a large (pendulum) displacement of the heater on rods. There is no seismic concern.

Comments (Additional pages may be added as necessary)

Evaluated by: Walter Djordjevic

Date: 11-7-2012

Dennis Zercher

11-7-2012

~~SUNSI - WITHHOLD FROM PUBLIC DISCLOSURE~~

The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. [REDACTED] Room, Area¹ 11 BATT

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. [REDACTED] Room, Area 11 BATT

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

Comments (Additional pages may be added as necessary)

Evaluated by: Bruce Lory *Bruce M. Lory* Date: 11-13-12

Dileep Cherlopalle *G.V. Dileep Kumar Reddy* Date: 11-9-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area¹ BUS 111

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

1. There is a gap between the base plate and the wall for the unit cooler. The anchor bolts seem to be tight. Will need to verify if this is acceptable per procedure.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

2. The back cover bolts are loose for 111M voltage regulator cabinet.

WR 83828 has been initiated to address this observation.

3. A conduit box is attached to unistrut, and both screws are loose. They are located approximately 10' from the floor and above the voltage regulator.

WR 83834 has been initiated to address this observation.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area¹ BUS 111

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

1. Vertical rigid conduit to box CS19148 (BUS 111 safeguards SWGR unit cooler) and Panel 132-10 has a conduit clamp not attached to the conduit. Located on column E9, it has a misplaced loose attachment at about 10' from floor underneath duct.

WR 83829 has been initiated to address this observation.

2. The conduit bracket attached to the unistrut for the conduit running to 480V Bus 111 and 112 control panel seems to be loose with a gap between the bracket and the unistrut.

WR 83833 has been initiated to address this observation.

3. One of the two supports for a light fixture is loose from the wall and the upper anchor bolt for the support is not fully engaged. SWEs judged that the light fixture will remain in place, but recommend that the bolt be tightened.

WR 83834 has been initiated to address this observation.

4. The conduit support on top of the RMU 213 cabinet, on the west wall, has a bolt that is not fully engaged. The support is located about 10' from floor level.

WR 83836 has been initiated to address this observation.

5. An electrical wire is tie wrapped to the conduit above door 54, next to an electrical cable tray.

CAP 1353147 has been initiated to document this observation. Additionally, WR 83841 has been initiated to correct the condition.

6. An electrical conduit is touching the duct work above the 111 Bus. It is located approximately 10' from the floor and above the entry to door 168. This is a flex conduit and the cable is protected. There is no seismic concern.

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. XXXXXXXXXX Room, Area¹ BUS 111

- 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

Unit cooler supply and return lines are Seismic Category I designed.

- 6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

- 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

A light fixture may come in contact with the flexible conduit feeding into the 11A transformer. It is located on top of 11A transformer with only 2" of clearance.

CAP 1353277 has been initiated to evaluate this observation.

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

SWEs noted a single light fixture in close proximity to a fluorescent light fixture. These two fixtures will interact under seismic conditions and bulbs may break but the light fixtures will not fall. There are no soft targets in the zone of influence. Therefore, SWEs judge this as an acceptable interaction.

Comments (Additional pages may be added as necessary)

- 1. *Duct tape was found on a bracket supporting some duct work. It was located about 10' from floor, above the "ladder storage area."*
- 2. *There is a pigtail cable around the conduit with no tie wrap. It was located approximately 15' from the ground between 11A and the transformer.*

Evaluated by: Dileep Cherlopalle C.V. Dileepkumar Reddy Date: 10-30-12

Bruce M. Lory Bruce M. Lory Date: 11-01-12

~~SUNSI - WITHHOLD FROM PUBLIC DISCLOSURE~~

The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. [REDACTED] Room, Area¹ BUS 15

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

The emergency light EL15, located on the safety related block wall number 26 and above the test station for the breaker cabinets, has a missing wingnut on the one side for the threaded rod holding EL15 on the wall bracket.

CAP 1352966 has been initiated to evaluate this observation. Additionally, WR 83790 has been initiated to address this observation.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

The light fixtures are well supported by a chain with closed "S" hooks or other means of support. These are visible from the floor. The SWEs judge it to be good practice.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. [REDACTED] Room, Area¹ BUS 15

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

A large size flex conduit with a metal end is held in place only with tie wraps. If the tie wraps failed under seismic loading, it is possible that the flex conduit would snap back to an uncoiled position and may impact the side of the RMU-113 cabinet.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

The SWEs noted an empty bucket roped to a column. They judged it to be acceptable in accordance with site's seismic housekeeping procedure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. [REDACTED] Room, Area¹ BUS 15

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

1. The bus duct to breaker 15-3 (on the top of breaker 15-3) has a flange connection that has its east side one and a half inch lower than its west side.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

2. Above breaker 15-6, the conduit support attachment seems to be loose. It is connecting the conduit to the unistrut.

CAP 1353223 has been initiated to evaluate this observation. Additionally, WR 83835 has been initiated to address this observation.

Comments (Additional pages may be added as necessary)

1. Caution tape (foreign material) is stuck to the HVAC exhaust diffuser above panel 70052.
2. Duct tape (foreign material) is stuck to a vertical conduit connected to bus 15 logic cab-relay cab 2.
3. Right next to the ladder over the electrical cable tray at the unistrut bolt, there are about 4 screws stored. The elevation is about 4' from the ground. It is not a seismic concern.

Plant personnel removed the identified foreign material.

Evaluated by: Dileep Cherlopalle C.V. Dileep Kumar Reddy Date: 10-29-12

Bruce M. Lory

Bruce M. Lory

11-01-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. [REDACTED] Room, Area¹ ROD DRIVE

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

Block walls are all seismically designed. Block walls numbers 36 and 39 are safety related.

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

There is an open "S" hook for the light fixture above terminal box A1723 for non-safety related room cooling. There is no seismic interaction concern.

CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. TURB Floor El. [REDACTED] Room, Area ROD DRIVE

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

Supply and return lines to the MTR 154-46 11 rod drive air handler blower have no lateral restraint (rod hung). The blower also has no lateral restraint (three rod trapeze hangers). There may be a potentially large movement at the blower.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

Comments (Additional pages may be added as necessary)

Evaluated by: Wally Djordjevic

Date: 11/14/2012

Kyle Kriesel

11.9.12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. XXXXXXXXXX Room, Area¹ SFP HX 122

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

The unistrut support for panel 1LPB-4 and 1RPB3 seems to have no anchor bolts on one of the legs. There are anchor bolts for the other leg. The leg might have poor quality fillet welds. 1LPB-4 is mounted on a unistrut frame that also supports 1RPB3 and the three transformers above. The unistrut frame is clip angled to a structural column in three places and is welded to an I-beam at both ends. If there is no fillet weld on the left leg, the frame is still seismically adequate and will not pry off the wall and impact MCC 1GA Bus 1.

CAP 01352426 has been initiated to document the missing anchors and WR 83676 was initiated to install anchors for the leg that's missing anchors.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

A light fixture may swing into piping on both sides. However, the SWEs judge this to be acceptable because the light fixture has an acceptable range of motion and if it did impact the pipe, it would cause ductile deformation of the light hood with no damage to the pipe.

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ SFP HX 122

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

See observations in the comment section.

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

Comments (Additional pages may be added as necessary)

1. *MCC 1GA BUS 2 is missing several plastic plugs for holes on the end of the MCC.*

CAP 01352415 has been initiated to evaluate the observation. In addition, WR 83671 has been initiated to address the condition.

2. *There are open "S" hooks for lighting fixtures in some of the locations in the heat exchanger area.*

CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

3. *A single light fixture has duct tape and it needs to be removed for housekeeping.*

CAP 1352391 has been initiated to address this foreign material.

4. *The 122 spent fuel pool heat exchanger component cooling inlet line has two ultrasonic flow measurement devices strapped to the pipe with a metal strap.*

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

5. *There is scaffolding tied to the spent fuel pool heat exchanger 122. One of the scaffold couplers is within 1" of touching CC-43-7.*

CAP 1352559 has been initiated to evaluate this observation.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area: SFP HX 122

Evaluated by: Bruce M. Lory *Bruce M. Lory* Date: 11-01-12

Dileep Cherlopalle *c.v. Dileep Kumar Reddy* 11-1-12

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The remaining pages are withheld from public disclosure.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ SFP PUMP 122

Instructions for Completing Checklist

This checklist may be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y N U N/A

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y N U N/A

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y N U N/A

¹ If the room in which the SWEL item is located is very large (e.g., Turbine Hall), the area selected should be described. This selected area should be based on judgment, e.g., on the order of about 35 feet from the SWEL item.

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ SFP PUMP 122

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

There are stored Operations test equipment above the electrical cabinet 1RPB6 next to the 121 spent fuel pool pump. Also, there are electrical wires loosely tied around the piping next to the 184 entry door.

WR 83723 was initiated to secure the instrumentation and cabling in accordance with site procedures. CAP 1352586 was initiated to address the long term equipment configuration control issue.

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

A 3" copper line is running along the ceiling above 121 and 122 pumps. It has beam clamps in the same direction and a broken hanger rod. This configuration may be vulnerable in a seismic event.

CAP 1352733 was written to document this observation, and WR 83747 was initiated to re-attach the broken support.

Comments (Additional pages may be added as necessary)

Status: Y N U

Area Walk-By Checklist (AWC)

Location: Bldg. AUX Floor El. [REDACTED] Room, Area¹ SFP PUMP 122

1. A fire protection valve near the ceiling is using a tie wrap to hold the valve handle in position.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

2. The 121 spent fuel pump has a cover between the motor and the pump that is tied with two metal tie wraps. This cover is a radiation protection shield and has no impact on the pump.

Site Engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

3. The 121 spent fuel pump has an anchor that is flush with the top of the nut. There are no threads beyond the nut. There is no impact on the seismic capacity.

4. There are four maintenance stands (CTV upper frame stands) about 5' high with four legs. One of the cabinets is next to the steam heating line, and it is not tied down to any structural member.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

5. The radiation protection stands with signs for contaminated area are close to the 121 spent fuel pool pump and could potentially impact the glass oil bubbler on the pump. One stand is not rolled, and the other stand is not taped.

Site engineering has reviewed this observation and concluded there is no seismic concern. Please refer to the table contained in Appendix F for the disposition of this observation.

6. There is lead radiation protection shielding chained to the wall near the spent fuel pool skimming pumps. If the shielding falls, it could potentially damage the tubing.

CAP 1352586 has been initiated to evaluate this observation. WR 83641 has been initiated to improve the shielding tie-off.

Evaluated by: Bruce M. Lory Bruce M. Lory Date: 11-01-12

Dileep Cherlopalle C.V. Dileep Kumar Reddy 11-1-12

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The remaining pages are withheld from public disclosure.

D

Plan for Future Seismic Walkdown of Inaccessible Equipment

This section discusses the plan for future seismic walkdowns to complete the inaccessible items from SWEL 1 which were deferred either for containment entry or cabinet internal inspection. Table D-1 summarizes the reasons each item is inaccessible during normal plant operation.

As shown in the table below, 29 items have been deferred until a refueling outage or an appropriate time when the equipment is accessible. Inaccessibility of this equipment was either based on the location of the equipment (environment that posed personnel safety concerns while the unit is operating), or due to the electrical safety hazards posed while the equipment is energized.

All items will be walked down by the end of refueling outage (RFO) 1R30 in Spring 2016. An updated submittal report with the walkdown results of the deferred items will be provided 60 days following the end of RFO 1R30.

Table D-1: Summary of Inaccessible Equipment

Equipment ID	Description	Reason for Inaccessibility
053-481	D1 DSL GEN EXPANSION TANK	Protected equipment – no access
075-012	122 CONT RM CHLR	Protected equipment – no access
11 BATT CHG	11 BATTERY CHARGER	Internal inspection requires equipment to be out of service
132-281	11 SFGDS SCRNHSE ROOF EXHT FAN	Need scaffold to verify knee brace as part of anchorage verification
174-013	13 CNTMT FCU	In containment - requires outage
1FT-464	MN STM FR 11 STM GEN CHNNL I RED F XMTR	In containment - requires outage

Table D-1: Summary of Inaccessible Equipment		
Equipment ID	Description	Reason for Inaccessibility
1LT-428	1 PRZR (CHNL III-BLU) LVL XMTR	In containment - requires outage
1LT-461	11 STM GEN LOOP A CHNNL I RED LVL XMTR	In containment - requires outage
BUS 122	BUS 122 480V SWITCHGEAR	Internal inspection requires equipment to be out of service
BUS 16	BUS 16 4.16KV SWITCHGEAR	Internal inspection requires equipment to be out of service
CV-39405	11 CRDM SHRD CLG COIL SPLY CV	In containment - requires outage
MCC 1A1	MOTOR CONTROL CENTER 1A BUS 1	Internal inspection requires equipment to be out of service
MCC 1AB2	MOTOR CONTROL CENTER 1AB BUS 2	Internal inspection requires equipment to be out of service
MCC 1K2	MOTOR CONTROL CENTER 1K BUS 2	Internal inspection requires equipment to be out of service
MCC 1L2	MOTOR CONTROL CENTER 1L BUS 2	Internal inspection requires equipment to be out of service
MCC 1T2	MOTOR CONTROL CENTER 1T BUS 2	Internal inspection requires equipment to be out of service
MTR 111F-31	11 INVERTER (INSTR BUS II-WHI)	Internal inspection requires equipment to be out of service
MTR 111F-32	13 INVERTER (INSTR BUS III-BLU)	Internal inspection requires equipment to be out of service
MV-32141	14 FCU CLG WTR OUTL ISOL MV A	In containment - requires outage
PNL 11	DISTRIBUTION PANEL 11	Internal inspection requires equipment to be out of service

Table D-1: Summary of Inaccessible Equipment		
Equipment ID	Description	Reason for Inaccessibility
PNL 111	INSTR BUS II (WHI) PNL 111	Internal inspection requires equipment to be out of service
PNL 113	INSTR BUS III (BLUE) PNL 113	Internal inspection requires equipment to be out of service
PNL 12	DISTRIBUTION PANEL 12	Internal inspection requires equipment to be out of service
PNL 133	AC DISTRIBUTION PANEL 133	Internal inspection requires equipment to be out of service
PNL 136	AC DISTRIBUTION PANEL 136	Internal inspection requires equipment to be out of service
PNL 153	DISTRIBUTION PANEL 153	Internal inspection requires equipment to be out of service
PNL 1EM	DIST PNL 1EM	Internal inspection requires equipment to be out of service
SV-33371	11 FCU DISCH TO CNTMT DOME CD-34072 SV	In containment - requires outage
SV-37460	U1 TRN A CHLD WTR/CLG WTR ISOL SV	In containment - requires outage

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E

Peer Review Report

This appendix includes the Peer Review Team's report, including the signed Peer Review Checklist for the SWEL from Appendix F, *Checklist for Peer Review of SSC Selection*, of Reference 1.

Table E-1 of this appendix includes information on the location of SWEL components, which is considered SUNSI, of which the loss, issue, modification, or unauthorized access can reasonably be foreseen to harm the safe operation of the nuclear plant. Pages which contain proprietary SUNSI information have been marked, and the sensitive information has been redacted.

Peer Review Report
for
Near Term Task Force (NTTF) Recommendation 2.3
Seismic Walkdown Inspection
of
Prairie Island Nuclear Generating Station Unit 1

November 15, 2012

Prepared by Peer Reviewers

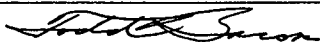
Todd A. Bacon, PE (Team Leader)

Mark S. Etre

Dileep Cherlopalle

S. Seilhymer

Todd Bacon



Peer Review Team Leader Certification Signature

Date: November 15, 2012

Introduction

Overview

This report documents the independent peer review for the Near Term Task Force (NTTF) Recommendation 2.3 Seismic Walkdowns performed by Stevenson & Associates (S&A) for Unit 1 of the Prairie Island Nuclear Generating Plant (PINGP). The peer review addresses the following activities:

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

The peer reviewers for PINGP Unit 1 are Messrs. Todd A. Bacon and Mark S. Etre of S&A, and Dileep Cherlopalle and S. Seilhymer of NSPM. Mr. Bacon is designated the Peer Review Team Leader. Messrs. Etre and Bacon are not involved in the seismic walkdown inspection process so that they can maintain their independence from that portion of the project. Mr. Bacon is a civil-structural engineer with over thirty years of nuclear engineering experience and has received the Seismic Walkdown Engineer (SWE) training. Mr. Etre is an advanced degree mechanical engineer with an undergraduate civil-structural engineering degree and over twenty-two years of nuclear power plant experience. Mr. Etre has also been trained as a Seismic Capability Engineer (5-day EPRI-SQUG Training) and a Seismic Walkdown Engineer (SWE EPRI 2-day training). Mr. Cherlopalle and Mr. S. Seilhymer from the Operations department have participated in the peer review of the SWEL, while Mr. Bacon and Mr. Etre have participated in all other phases of the peer review process for PINGP Unit 1.

The SWEL development was performed by Messrs. P. Valtakis of NSPM and Bruce Lory of S&A. The peer review resulted in no additional findings beyond the comments shown on the checklist dated October 22, 2012. The SWEL Peer Review checklist is found in Attachment 1. The discussion for the SWEL development peer review is also contained in this peer review report.

Interviews were conducted by Messrs. Bacon and Etre with the SWE inspection team after review of a sample of the Unit 1 Seismic Walkdown Checklists (SWCs) and the Area Walk-by Checklists (AWCs) to ascertain procedural compliance with the Seismic Walkdown Guidance (SWG). The interviews were conducted by Mr. Bacon with Messrs.

Dennis Zercher, Kyle Kriesel, Walter Djordjevic and Bruce Lory of the SWE inspection team on October 23, 2012. Messrs. Etre and Bacon conducted interviews with all of the above including Dileep Cherlopalle of NSPM, but without Mr. Dennis Zercher on October 30, 2012. Mr. Cherlopalle was a member of the SWE inspection team as well as the peer reviewer for the SWEL development. In addition, Messrs. Etre and Bacon conducted an interview on November 5, 2012 with Mr. Zercher to ensure both peer reviewers interviewed all members of the SWE team. The discussion of the sample SWCs and AWCs is provided in the peer review report.

No issues were identified which challenged the current licensing basis.

Peer Review - Selection of SSCs

Purpose

The purpose of this section is to describe the process to perform the peer review of the selected structures, systems, and components, (SSCs) that were included in the Seismic Walkdown Equipment List (SWEL).

This section documents the Peer Review – Selection of SSCs performed for PINGP – Unit 1.

Peer Review Activity – Selection of SSCs

The guidance in EPRI Technical Report 1025286, *Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic*, dated June 2012, Section 3: Selection of SSCs was used as the basis for this review.

This peer review was based on interviews with the following individuals who were directly responsible for development of the SWEL:

- Mr. P. Valtakis, Prairie Island Plant Engineer
- Mr. Bruce Lory, Senior Mechanical Engineer

This peer review utilized the checklist shown in the SWG, Appendix F: Checklist for Peer Review of SSC Selection.

For SWEL 1 development, the following actions were completed in the peer review process:

- Verification that the SSCs selected represented a diverse sample of the equipment required to perform the following five safety functions:
 - Reactor Reactivity Control (RRC)
 - Reactor Coolant Pressure Control (RCPC)
 - Reactor Coolant Inventory Control (RCIC)
 - Decay Heat Removal (DHR)
 - Containment Function (CF)

This peer review determined that the SSCs selected for the seismic walkdowns represent a diverse sample of equipment required to perform the five safety functions.

- Verification that the SSCs selected include an appropriate representation of items having the following sample selection attributes:
 - Various types of systems
 - Major new and replacement equipment
 - Various types of equipment
 - Various environments

- Equipment enhanced based on the findings of the IPEEE
- Risk insight consideration

The SWEL peer review commented that no Safety Injection (SI) or Component Cooling (CC) equipment were on the SWEL reviewed. SWEL 1 was revised to expand the selection of equipment beyond the scope of the equipment submitted to the NRC as the IPEEE equipment list. Specifically the following equipment was added to SWEL 1 to be walked down:

- 145-071, the 11 SI Pump
- MV-32077, Sump B To 11 RHR Pump Train A (Outside) MV
- 145-122, the 12 CC Pump

This final peer review determined that the SSCs selected for the seismic walkdowns include a sample of items that represent each attribute/consideration identified above.

Peer Review Findings – Selection of SSCs

This peer review found that the process for selecting SSCs that were added to the SWEL was consistent with the process outlined in the SWG Section 3: Selection of SSCs.

The peer review checklist dated October 22, 2012 is attached to this document. There were no additional findings from the Peer Review other than those noted on the checklist.

Resolution of Peer Review Comments – Selection of SSCs

All comments requiring resolution were incorporated prior to completion of this peer review.

Conclusion of Peer Review – Selection of SSCs

This peer review concludes that the process for selecting SSCs to be included on the seismic walkdown equipment list appropriately followed the process outlined in the SWG, Section 3: Selection of SSCs. It is further concluded that the final SWEL sufficiently represents a broad population of plant Design Class I equipment and systems to meet the objectives of the NRC 50.54(f) letter.

Review of Sample Seismic Walkdown & Area Walk-Bys Checklists

Overview

A peer review of the SWCs and AWCs was performed after which an interview was conducted by Messrs. Bacon and Etre with the SWE inspection team in accordance with the SWG requirements. Interviews were conducted with the SWEs on October 23 and 30, 2012, as well as on November 5, 2012. The SWE trained walkdown engineers were Messrs. Dennis Zercher, Kyle Kriesel, Dileep Cherlopalle, Walter Djordjevic and Bruce Lory.

Sample Checklists

Table E-1 lists the SWC and AWC samples which represent approximately 22% of the SWCs and 24% of the AWCs.

Equipment Identification	Equipment Class	Walkdown Item	Observations
1LT-763	18 - Instruments on Racks	12 Reactor Vessel Head Dynamic Range TRN B D/P Transmitter	No concerns
1NR3	20 - Instrumentation and Control Panels and Cabinets	NIS Rack III (BLU) 1NR3	No concerns
11 BATT	15 - Batteries on Racks	11 Battery (& Battery Rack)	No concerns
12 BATT CHG	16 - Battery Chargers and Inverters	12 Battery Charger	No concerns
032-292	9 - Fans	122 Cont. Room Clean-up Fan	No concerns
053-201	21 - Tanks and Heat Exchangers	D1 Diesel Generator Fuel Oil Day Tank	No concerns
053-481	21 - Tanks and Heat Exchangers	D1 Diesel Generator Expansion Tank	Missing U-bolt assessed and determined OK by plant engineering.

Prairie Island Nuclear Generating Plant - Unit 1
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Table E-1: SWC and AWC Samples from Seismic Walkdown Inspection for Unit 1			
Equipment Identification	Equipment Class	Walkdown Item	Observations
112M/XFMR	4 - Transformers	112M Transformer	Open S-hooks not a credible hazard to transformer. CAP 01352001 written to address open S-hooks. WR 83556 also written to address this observation.
135-101	21 - Tanks and Heat Exchangers	12 Cooling Water Pump DSL JCKT Cooling Heat Exchanger	No concerns
145-122	5 - Horizontal Pumps	12 CC Pump	Black insulation found behind the 12 CC pump at support column base 1-CCH-375 (support number). CAP 1352321 written to address FME issue.
158-011	0 - Other	11 Cooling Water Strainer	FME underneath loose conduit clamp could be nut. Conduit clamp found loose with nut missing (found underneath on floor). Solenoid valve nearby and adjacent conduit clamp on other side is tight. Therefore SWE judge loose conduit clamp not an adverse seismic condition.
174-162	10 - Air Handlers	Train A Event MON RM West Unit CLR	Lighting fixture will collide with the drip pan or lateral frame, but is not a seismic hazard to the cooler.
55400	14 - Distribution Panels	D1 Diesel Generator Auxiliary Control Panel	No concerns

Prairie Island Nuclear Generating Plant - Unit 1
Seismic Walkdown Submittal Report

Table E-1: SWC and AWC Samples from Seismic Walkdown Inspection for Unit 1			
Equipment Identification	Equipment Class	Walkdown Item	Observations
CV-31153	7 - Fluid Operated Valves	11 TD AFW Pump RECIRC/L-O CLG CV	No concerns
CV-31652	7 - Fluid Operated Valves	11 CLG Water Strainer Backwash CV	Conduit clamp missing nut (judged not a seismic concern). CAP 1353581 initiated to evaluate this observation and WR83924 initiated to address observation. Also, CV-31652 F/R and CV-31653 F/R mounted with one screw - judged acceptable for seismic loading. Screws are not fully threaded but judged acceptable for seismic loading. CAP 1353368 has been initiated to evaluate this observation. Additionally, WR 83878 has been initiated to address this observation.
D-1	20 - Instrumentation and Control Panels and Cabinets	Control Panel D-1	No concerns
E-1	20 - Instrumentation and Control Panels and Cabinets	Control Panel E-1	Partition wall next to E-1 missing all 6 floor bolts. Vertical bolts are in place. CAP 1357500 initiated to evaluate this observation. Additionally, WR 84916 initiated to address this observation.
MV-32017	8 - Motor Operated and Solenoid Operated Valves	L00P B Main Steam To 11 TD AFWP MV	No concerns

Prairie Island Nuclear Generating Plant - Unit 1
Seismic Walkdown Submittal Report

Table E-1: SWC and AWC Samples from Seismic Walkdown Inspection for Unit 1			
Equipment Identification	Equipment Class	Walkdown Item	Observations
MV-32077	8 - Motor Operated and Solenoid Operated Valves	Sump B To 11 RHR Pump Train A (Outside) MV	No concerns
MV-32238	8 - Motor Operated and Solenoid Operated Valves	11 AFW TO 11 SG MV	Light fixture south of valve has open S-hook, judged not a seismic hazard.
PNL 11	14 - Distribution Panels	Distribution Panel 11	No concerns
RS-21-1	7 - Fluid Operated Valves	11 SG Main Steam Header Relief	No concerns
SV-33694	8 - Motor Operated and Solenoid Operated Valves	11 SFGDS Screen-house Roof Exhaust Fan CD-34137 SV	No concerns
VC-28-2	7 - Fluid Operated Valves	12 CHG Pump Discharge Relief	No concerns

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Table E-1: SWC and AWC Samples from Seismic Walkdown Inspection for Unit 1	
Area Walkdown Description	Observations
Aux. Bldg. Northeast	Aux. bldg. special vent zone boundary line hanger rod in contact with component cooling line at hanger 1-CCH-185 - judged not a seismic concern; light fixture above VFD cabinets for 11 and 13 charging pumps close (1") to conduits running into top of VFDs - judged not a seismic concern by site engineering; duct tape needs to be removed from special vent zone line - CAP 1352391 was initiated to document this observation; two abandoned hanger rods exist above the component cooling line with hanger rod 1-RHRH-385 near MCC2K Bus 2 - no seismic concern per plant engineering. CAP 01352549 and WR 83712 were initiated to remove the hanger rods for personnel safety reasons.
Aux. Bldg. 122 CRM Chiller	No concern
SSCN Bldg. 12 DD CLWP	Status "N" - 121 filtered water strainer adjacent to the diesel oil day tank skid has corroded anchors (wet environment). The corrosion is not significant. Anchorage of the diesel driven cooling water pump also shows slight corrosion, as it is in a wet environment. CAP 1352851 was initiated to document this observation, and WR 83771 was initiated to address the corrosion.
Turb. Bldg. 11 AFWP	Status "N" - Lighting has open S-hooks near TD AFW pump; CAP 1352001 initiated to evaluate this observation and WR 83556 initiated to address this observation. Missing fastener on guard for 121 Inst. Air compressor; CAP 1352975 initiated to evaluate observation; WR 83793 initiated to address observation. Chain fall for 2AF01301 can potentially strike MCC 1A BUS 1; CAP 1352961 has been initiated to evaluate observation and WR 83796 initiated to address observation.
Turb. Bldg. 11 Battery Room	No concern
Turb. Bldg. EDG D-1	Status "N" - possible open S-hook on a light fixture above the diesel generator control panel; CAP 1352001 initiated to evaluate the open S-hooks identified and WR 83556 initiated to address the observation.

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Table E-1: SWC and AWC Samples from Seismic Walkdown Inspection for Unit 1

Area Walkdown Description	Observations
Turb. Bldg. Bus 15	<p>Status "N" - Emergency Light El. 15 has a missing wing nut; CAP 1352966 initiated to evaluate this observation and WR 83790 initiated to address observation. Large size flex conduit with a metal end held in place only with tie wraps; if the tie wraps failed under seismic loading, it is possible that the flex conduit would snap back to an uncoiled position and may impact the side of the RMU-113 cabinet. Site engineering has reviewed this observation and concluded there is no seismic concern. ITEM 6 CHECKED "Y" AND "N". Bus duct to breaker 15-3 (on the top of breaker 15-3) has a flange connection that has its east side one and a half inches lower than its west side; no seismic concern per site engineering. Above breaker 15-6, the conduit support attachment seems to be loose; it is connecting the conduit to the Unistrut; CAP 1353223 initiated to evaluate this observation and WR 83835 initiated to address this observation.</p>

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Table E-1: SWC and AWC Samples from Seismic Walkdown Inspection for Unit 1

Area Walkdown Description	Observations
Aux. Bldg. Control Room	<p>Status "N" - Lighting diffusers are tied off to the support grid; Unit 1 and Unit 2 "C" panels have a fluorescent light fixture on chains too close (within 1"- 2") to the panel; CAP 01352209 initiated to evaluate this observation. A trash can next to the racks R23, R24, R13, and R14 are immediately adjacent to the racks, which violates the seismic housekeeping procedure; site engineering has reviewed this observation and concluded there is no seismic concern. A step ladder adjacent to racks R23, R24, R13 and R14 is too close to the racks; the wheels should be chocked. There were several open S-hooks on light fixtures; CAP 01352001 initiated to evaluate observation and WR 83556 initiated to address observation. Unit 1 and Unit 2 "E" panels have side panels that have slid out of position; this is a housekeeping issue and not a seismic concern; CAP 01352102 initiated to evaluate this observation and WR 83579 has been initiated to address observation. Fire extinguisher bracket 224 has a rotated bracket (into the insulation) and should be repaired; WR 83584 initiated to address observation. The following observations were judged not to be seismic concerns by site engineering: 1) The filing cabinets adjacent to the main control board in both Unit 1 and Unit 2 are close to the main control board, 2) A set of drawers next to the in-core logic selection switch panel are close to the panel, and 3) The cart adjacent to the Protection Systems III and the cart adjacent to cabinets RPI-1, -2, and -3 in Unit 1 are close to the equipment; the chain is not used to restrain the carts.</p>

Evaluation of Findings

There were no findings that challenged the licensing basis. Tables 5-2 and 5-3 of the Seismic Walkdown Report (final submittal report) provide the lists of the issues encountered for the equipment seismic walkdowns and area walk-bys.

The scaffolding and seismic housekeeping procedures were reviewed by the SWEs in order to gain a full understanding of the plant practices in regard to those procedures. There were no seismic concerns noted in Unit 1 with regard to scaffold erection. The scaffolds were properly tied off and braced, and properly tagged with respect to the procedure.

There were several seismic housekeeping issues identified during the walkdowns which are not in accordance with plant procedures. However, these did not result in any

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potentially adverse seismic conditions being identified. The peer review team recommends training to the housekeeping procedures for the entire plant to refresh these practices in everyone's mind.

A number of lighting fixtures with open S-hooks were found in the plant; however, none of them resulted in any seismic issues as evidenced by reviewing the CAPs written (see Tables 5-2 and 5-3) during these walkdowns.

The peer reviewers consider the judgments made by the SWEs to be appropriate and in accordance with the SWG.

Review of Licensing Basis Assessments

Tables 5-2 and 5-3 of the Seismic Walkdown Report provide a list of the issues encountered during the Unit 1 seismic walkdown inspections for the SWEL components and how they were addressed. If a PINGP CAP request was generated it is shown in the Tables. Interviews were conducted by Messrs. Bacon and Etre with the SWE inspection team on October 23 and 30, 2012, as well as November 5, 2012 to discuss the issues identified. No potentially adverse seismic conditions were identified that resulted in a seismic licensing basis evaluation. The peer reviewers concur with this outcome.

Review Final Submittal Report & Sign-off

The entire final submittal report has been reviewed by Messrs. T. Bacon and M. Etre and found to meet the requirements of the EPRI 1025286 – Seismic Walkdown Guidance. The Peer Review determined that the objectives and requirements of the 50.54(f) letter¹ are met. Further, the efforts completed and documented within the final submittal report are in accordance with the EPRI guidance document.

¹ NRC Letter to All Power Reactor Licensees et al., “Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendation 2.1, 2.3, and 9.3, of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident,” Enclosure 3, “Recommendation 2.3: Seismic,” dated March 12, 2012

Attachment 1: Peer Review Checklist for SWEL

Sheet 1 of 5

Peer Review Checklist for SWEL #1 –Prairie Island Units 1 and 2

Instructions for Completing Checklist

This peer review checklist may be used to document the review of the Seismic Walkdown Equipment List (SWEL) in accordance with Section 6 Peer Review. The space below each question in this checklist should be used to describe any findings identified during the peer review process and how the SWEL may have changed to address those findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Were the five safety functions adequately represented in the SWEL 1 selection? Y N

The Peer Review Team reviewed the list of selected equipment to validate the assignment of the correct safety functions to the components. The Peer Review Team agrees that the four safety functions specified in the EPRI guidance as well as the containment function are represented. No comments.

2. Does SWEL 1 include an appropriate representation of items having the following sample selection attributes:

- a. Various types of systems? Y N

The Peer Review Team reviewed the list of selected equipment to validate that a sufficient sampling of plant systems related to the safety functions was represented. The list below shows the count of components in each of Prairie Island's systems, per unit. The Peer Review Team concluded that there is a sufficient sampling of the various plant systems was represented.

The following is a summary of the sampling of equipment classified on the current list.

System	Title	Unit 1 - # Equip in Walkdown	Unit 2 - # Equip in Walkdown
AF	AUXILIARY FEEDWATER	7	8
AT	AUX START-UP/STDBY XFMRS	0	0
BM	SITE MISCELLANEOUS MAINTENANCE	3	3
CC	COMPONENT COOLING	1	1
CL	COOLING WATER	16	12
D1	D1 EMERGENCY DIESEL	10	Not Applicable
D2	D2 EMERGENCY DIESEL	0	Not Applicable
D5	D5 EMERGENCY DIESEL	Not Applicable	8
D6	D6 EMERGENCY DIESEL	Not Applicable	1
DC	DC AUXILIARIES	8	9
EA	4.16KV ELECTRICAL	2	2
EB	480V ELECTRICAL	10	12
EM	EVENT MONITORING	6	6
EX	240/120V MISC AUXILIARIES	4	4

Prairie Island Nuclear Generating Plant - Unit 1
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Sheet 2 of 5

Peer Review Checklist for SWEL #1 –Prairie Island Units 1 and 2

System	Title	Unit 1 - # Equip in Walkdown	Unit 2 - # Equip in Walkdown
FO	FUEL OIL	0	1
FW	FEEDWATER	0	0
IP	INSTRUMENT POWER SOURCES	4	4
MP	MISC PLANT INSTRUMENTS	1	0
MS	MAIN STEAM	2	3
NI	NUCLEAR INSTRUMENTATION	1	1
PI	ROD POSITION INDICATION	0	0
RC	REACTOR COOLANT	0	0
RE	REACTOR CONTROL	0	0
RH	RESIDUAL HEAT REMOVAL	0	0
RP	REACTOR PROTECTION	6	5
SA	STATION & INSTRUMENT AIR	1	0
SF	SPENT FUEL POOL COOLING	0	0
SI	SAFETY INJECTION	2	2
VC	CHEMICAL & VOLUME CONTROL	2	2
ZC	CONTAINMENT VENT	2	2
ZG	DIESEL ROOMS VENT	2	0
ZH	SAFEGUARDS CHILLED WATER	6	2
ZN	CONT/RELAY/CMPTR RM VENT	4	0
ZR	SCREENHOUSE VENT	3	1
ZX	CNTMT & AUX BLDG COOLING	4	5

Totals: 107 94

b. Major new and replacement equipment?

Y N

The Peer Review Team validated that the list of selected equipment contained a sufficient sampling of plant equipment that has been replaced in recent years. This included large components such as the 11 and 12 Battery Chargers.

Peer Review Checklist for SWEL #1 –Prairie Island Units 1 and 2

The Peer Review Team noted the following issues that require follow up:

- 1) 21 and 22 Batt Charger were not listed as new or replace.

Response: Latest version of SWEL has now identified these as “Yes” in the “New/Replace” column.

- c. Various types of equipment?

Y N

The Peer Review Team reviewed the list of selected equipment against Appendix B of the EPRI Seismic Walkdown Guidance (1025286).

The Peer Review Team noted the following issues that required follow up:

- 1) It appears that there are no “Air Compressors” selected in SWEL 1. Appendix B lists Air Compressors as a class of equipment. Verify if “Air Compressors” need to be included .

Response: Equipment selected for walkdown in SWEL1 must be classified as Seismic Category 1 before being considered. The air compressors are not Seismic Category 1, therefore there are no air compressors (Equipment Class 12) included on SWEL1.

- 2) Will the Battery Room (11, 12, 21 & 22 BATT) walkdown include “Battery Racks” also? If not, consider including “Battery Racks” as recommended in Appendix B.

Response: The SWELs have been revised to clarify that the equipment description includes the battery racks as well as the batteries.

- 3) No equipment is selected from Safety Injection (SI) and RHR system?

Response: It was decided that the SWELs for both units will now include equipment from the SI system, although the original IPFEE submittal did not include this system as required in order to get to safe shutdown condition.

- 4) No components for the CC systems are selected for the walkdown. CC system provides support for RCP seal cooling (along with charging)

Response: The CC Pumps and a small number of relief valves are classified Seismic Category 1. We have added the 12 CC pump (145-122) and 22 CC pump (245-122) to the SWEL1 lists.

- 5) SF – RWST Purification pumps are Seismic Cat 1 but are not listed. (These could affect RWST supply to charging needed for loss of offsite power)

Response: These pumps [11 Refueling purification pump (195-091) and the 22 Refueling Water Purification Pump (295-091)] are classified as Non-Safety Related, Seismic Category 1. Operations Representative (P. Valtakis) confirmed the pump classification to be correct per Q-List rebaseline project. Since these pumps do not provide one of the 5 safety functions identified in EPRI 1025286

Peer Review Checklist for SWEL #1 –Prairie Island Units 1 and 2

guidance, these pumps do not meet the criteria to be considered for seismic walkdown. Therefore these pumps will not be added to SWEL1.

- d. Various environments? Y N

The Peer Review Team reviewed the list of selected equipment against criteria for selection listed in the EPRI Seismic Walkdown Guidance (EPRI report 1025286). The team determined that a reasonable effort was made to select equipment in different locations throughout the plant, and it meets the requirements from the EPRI guidance with respect to the various environments considered.

- e. Equipment enhanced based on the findings of the IPEEE (or equivalent) program? Y N

The Peer Review Team noted that some equipment selected for walkdown on SWEL1 were also identified as equipment enhanced as a result of the IPEEE effort. This meets the requirement from the EPRI guidance to select a sample of IPEEE enhancements.

- f. Were risk insights considered in the development of SWEL 1? Y N

The Peer Review Team reviewed the list of the top 50 risk significant equipment items from the SWELs. Roughly 18 of the 200+ equipment listed on the Prairie Island SWELs have ties to the top 50 risk significant systems. The team concluded this was a strong sample and was well documented.

3. For SWEL 2:

- a. Were spent fuel pool related items considered, and if applicable included in SWEL 2? Y N
No comments

- b. Was an appropriate justification documented for spent fuel pool related items not included in SWEL 2? Y N
There are SFP related equipment included in SWEL 2, therefore no justification is required.
-

Prairie Island Nuclear Generating Plant - Unit 1
Seismic Walkdown Submittal Report

Sheet 5 of 5

Peer Review Checklist for SWEL #1 -Prairie Island Units 1 and 2

4. Provide any other comments related to the peer review of the SWELs.

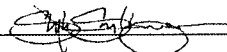
None

5. Have all peer review comments been adequately addressed in the final SWEL?

Y N

Peer
Reviewer
#1:

Steve Scillymer (Ops)



Date: 10-26-12

Peer
Reviewer
#2:

Dileep Chertopalle (Design Eng.)



Date: 10-22-12

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F Disposition of Seismic Walkdown Observations

This appendix includes a discussion of how observations noted in the Seismic Walkdown Checklists (SWC) and Area Walk-By Checklists (AWC) were dispositioned. All observations noted in the SWCs or AWCs were reviewed by site engineering to determine whether or not the issues could be readily shown to meet the seismic licensing basis. If it was clear that the observations noted by the SWEs were not seismic concerns, then the observation was dispositioned as needing no further actions. However, if site engineering could not readily determine if the condition met the seismic licensing basis, then the observations were entered into the CAP. Table F-1 and Table F-2, below, lists the observations identified in the SWCs and AWCs, and how each observation was dispositioned. Only those observations which required additional review by site engineering are included in these tables. Comments or recommended enhancements are not included.

The AWCs in this appendix include information on the location of SWEL components, which is considered Sensitive Unclassified Non-Safeguards Information (SUNSI), of which the loss, issue, modification, or unauthorized access can reasonably be foreseen to harm the safe operation of the nuclear plant. Pages which contain proprietary information have been marked, and the sensitive information has been redacted.

Table F-1: Disposition of Seismic Walkdown Observations			
Walkdown Checklist	Question No.	Observation	Disposition
55000	11	Bottom latch has some apparent deterioration degradation due to engine vibration. This condition does not affect seismic capacity; however, recommend repair for maintenance purposes.	CAP 1353290 has been initiated to evaluate this observation. WR 83855 has also been initiated to address this observation.
57304	8	The light fixture in the vicinity of the control panel has an open "S" hook connecting the fixture to its chain at the bottom and at the ceiling connection. Both "S" hooks are open. The light fixture could fall under seismic loading and strike SV-5730419 and CS-5731407 and SA-111-13.	CAP 1352001 has been initiated to evaluate the open "S" hooks identified during these walkdowns. In addition to the action request, WR 83556 has been initiated to address this observation.
034-011	7	Some light fixtures in the area have open "S" hooks, but these light fixtures are not near enough air lines to be a credible hazard. The "S" hooks should be closed for maintenance purposes.	CAP 1352001 has been initiated to evaluate the open "S" hooks observed during the walkdowns. In addition to writing an action request, WR 83556 has been initiated to address the observations.
069-242	8	One light fixture has an open "S" hook on the bottom connection of the chain. Under earthquake conditions SWEs judge that the light fixture will drop off the open "S" hook and swing into the filter. SWEs judged that impact is credible but not significant. The light fixture will not impact the soft target of the glass window. Therefore, the safety function is not impaired.	CAP 01352001 has been initiated to evaluate the open "S" hooks identified during these walkdowns. In addition to writing an action request, WR 83556 has been initiated to address this observation.

Table F-1: Disposition of Seismic Walkdown Observations			
Walkdown Checklist	Question No.	Observation	Disposition
111M/XFMR	Comments	There is a coil of cable that looks like it is coiled up using electrical tape. This is not a seismic issue with 111M XFMR.	CAP 01353147 has been initiated to evaluate this observation. In addition to the action request, WR 83841 has been initiated to address this observation.
112M/XFMR	7	Some "S" hooks may be open on lighting fixtures but they are not a credible hazard to the transformer.	CAP 01352001 has been initiated to evaluate the open "S" hooks identified during the walkdowns. In addition to writing this action request, WR 83556 has been initiated to address this observation.
125MR	8	Overhead air handling unit is supported by three rod hangers. One rod hanger is a cross member and is not positively secured to air handler casing.	It was determined by reviewing the vendor technical manual that if the end trapeze support were to become dislodged the remaining supports would be capable of supporting the load of the unit and this does not create a seismic interaction concern.
145-042	7	There are open "S" hooks on lighting fixtures but they are not deemed a credible hazard to the charging pumps.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.
145-122	Comments	Foreign material (black insulation 1" x 2" x 8") found behind the 12 CC pump at column base 1-CCH-375 (support number).	CAP 1352321 issued to address FME problems.

Table F-1: Disposition of Seismic Walkdown Observations			
Walkdown Checklist	Question No.	Observation	Disposition
174-031	10	The insulation for the 15 SWGR RM unit cooler return line is touching an adjacent 4" diameter conduit. This location is between the unit cooler and the wall.	The insulation appears to have been cut out to accommodate the insulation. There would be no metal to metal interaction during a seismic event. This configuration is acceptable.
B15 LOGIC-2	8	A light fixture is touching the electrical conduits feeding the Bus 15 Logic Relay cabinet 2, which contains essential relays.	The contact of the light is at the connection of the chain. There will be no hard impact and there is a conduit support adjacent to the location. The light will not impact the function of the equipment, so there is no seismic concern.
B15 LOGIC-2	Comments	Foreign material was found inside the cabinet at the bottom (one screw and a piece of wire insulation).	WR 83773 has been initiated to remove the foreign material inside the cabinet.
CV-31059	7	The light fixture has an open "S" hook. The remaining chain will ensure the equipment is not impacted, so there is no seismic concern.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.
CV-31652	11	The conduit feeding power to CV-31652 has one conduit clamp that is missing a nut. SWE's judge existing conduit configuration is still seismically adequate and acceptable. However, it is recommended that the nut is put back on.	CAP 1353581 has been initiated to evaluate this observation. Additionally, WR83924 has been initiated to address this observation.

Table F-1: Disposition of Seismic Walkdown Observations			
Walkdown Checklist	Question No.	Observation	Disposition
CV-31652	Comments	SWEs noted that CV-31652 F/R and CV-31653 F/R are mounted to a single vertical Unistrut with just one machine screw. The machine screws are not fully threaded into their associated nuts. Instead they are approximately half threaded into the nuts. SWEs judge current configuration as acceptable for seismic loading, but full thread engagement is needed.	CAP 1353368 has been initiated to evaluate this observation. Additionally, WR 83878 has been initiated to address this observation.
CV-39401	10	It appears that CV-39401 is in close proximity to or touching some rigid conduits. The conduits feed power to CV-39404 (12 FCU CHLD WATER SPPLY CV). During a seismic event, the valve may come into contact with the conduits.	A plant calculation evaluates the pipe stress on the affected line. All the displacements in the calculation are well below the actual distance between the actuator and the conduit. The configuration in the field is acceptable. There is no seismic concern.
E-1	Comments	The partition wall next to E-1 is missing all six floor bolts. The bolts connecting the partition wall to the vertical walls are in place. Is the partition wall seismically qualified in this configuration?	Bolts along the panel bottom would be attached to the false floor. These bolts would not provide significant strength but could aid in keeping the end of the partition next to the 22 miscellaneous rack from moving. This rack is not safety related and has a gap of 1", so there would be no impact to the rack. The remaining sides of the partition door and frame are firmly attached to the walls and would not be allowed to displace under seismic conditions. CAP 1357500 and WR 84916 were written to document and correct the configuration discrepancy.

Table F-1: Disposition of Seismic Walkdown Observations			
Walkdown Checklist	Question No.	Observation	Disposition
EM-B1	11	On the inside of EM-B1 there is a single screw and washer missing from the left vertical support. The remaining two screws and washers are present.	Site engineering reviewed this condition, and determined it is not a seismic concern. However, WR 83653 has been initiated to correct the condition.
MCC 1T2-XFR SW	8	Regarding the light fixture, both of the bottom "S" hooks are open. During a seismic event the light fixture may fall on to the lever of the MCC IT2 transfer switch and may trip the equipment. The light fixture is 52" above the disconnect which appears to be right underneath the light fixture. The power cord is hard wired to the ceiling and appears to have some slack.	CAP 1352001 has been initiated to evaluate the open "S" hooks identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address this observation.
MCC 1T2-XFR SW	Comments	There is foreign material behind the transfer switch 1, near the wall (an O ring that is red in color). It is a housekeeping issue, and not a seismic concern.	CAP 1352321 has been initiated to address the foreign material identified during these walkdowns.
MV-32145	8	A light fixture in the area has open "S" hook. MV-32145 is not in its zone of influence, therefore no adverse seismic interaction concern	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.
MV-32238	7	A light fixture south of the valve has an open "S" hook, but it is not a seismic hazard.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

Table F-1: Disposition of Seismic Walkdown Observations			
Walkdown Checklist	Question No.	Observation	Disposition
MV-32381	10	The valve bodies of MV-32381 and MV-32382 are approximately 1/8" apart and may interact based on piping analysis displacement.	Plant engineering evaluated this comment and concluded there is no seismic hazard interaction. These lines are analyzed within a pipe stress calculation.
053-321	2	The day tank foundation has eight (7/8" diameter) anchors. One of these anchors appears to not be fully seated.	CAP 01352845 has been initiated to evaluate this observation. In addition to writing an action request, WR 83768 had been initiated to address this observation.
035-012	Comments	There is a small area with concrete spalling (about 1" by 3" and 1/4" deep). It is not a seismic concern.	It was determined that this is an original construction defect. The condition is less than 3/8 of an inch in depth and does not require correction. It is not a seismic concern.
035-012	Comments	There is an abandoned hanger rod in the ceiling (red tape on the tip) above HX.	It is not a seismic concern, but CAP 01352373 has been initiated to evaluate this observation for potential personnel safety when assembling scaffolds or performing overhead work. Off of this action request, WR 83651 has been initiated to address this observation.
035-012	Comments	It appears that the valve CC-43-2 has a tie wrap around it for a wheel lock.	The valve is tagged "CLOSED" with a Danger tag under a clearance order. As allowed by plant procedures, tie wraps are commonly used as the second means when tagging out valves at PINGP by the Operations department. It is not a seismic or safety concern.

Table F-1: Disposition of Seismic Walkdown Observations			
Walkdown Checklist	Question No.	Observation	Disposition
035-012	Comments	There is a bolt missing in a base plate next to MCC 1GA BUS 1.	WR 83744 has been issued to replace the missing nut. CAP 01352717 has been issued to document the discrepancy. The MCC is not safety related and the missing nut will not have any effect on operability or functionality of the adjacent MCC. It also does not pose any safety hazard.
045-102	11	The yoke pins for SF-26-2 and SF-26-4 do not have a retaining mechanism (cotter pin, bolt, etc.).	The packing eye bolt pins are commonly used by many valve companies. Some valve companies tack weld the packing eyebolt to the eye bolt pin and other companies use a tapered eye bolt pin to keep it secured in the eye bolt. Therefore, the eye bolts are acceptable as is and there is no seismic concern.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
AUX 11/12 CNMT SPRAY	Comments	The drip pan beneath the 12 containment spray pump is missing a bolt on the south side.	CAP 01353388 has been initiated to evaluate this observation. In addition to writing an action request, WR 83885 has been initiated to address this observation.
AUX 11/12 SI PUMPS	1	The pressure gauge wall bracket (1B351) next to electric panel JB A1813 in 125E pump room is missing one out of four bolts. The bolts appear to be sheared off.	Plant engineering reviewed this observation and concluded that the bracket is functional. This pressure gauge is non-safety related, and was originally constructed with only three bolts. The three bolts are adequate to support the seismic load.
AUX 11/12 SI PUMPS	Comments	There were 3 plastic barrels tied with a rope to a 6" SS pipe next to 11RWST. It needs to be verified that this is acceptable to tie them to this pipe.	The barrels are tied to the floor drain piping, as shown in plant drawings. The floor drain piping is non-safety related and acceptable to tie off the barrels. No action is required, because it is not a seismic concern.
AUX 12 CHR G PUMP	3	The lighting fixtures in the area have open "S" hooks but these are not deemed a seismic hazard.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.
AUX 12 CHR G PUMP	7	The chiller in the area has missing bolts on the shroud.	The fan coil unit cooler is not safety related, and is not directly above the 12 charging pump. Therefore, there is no seismic concern. However, WR 84671 has been initiated to address this observation on the chiller.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
AUX 12/22 CC PUMP	4	The 22 component cooling pump motor unit cooler is supported by rod hangers from the ceiling. This is located near the 22 component cooling pump, 6 feet above the 695' floor. This unit cooler is close to the rigging I-beam on one side of 4" component cooling lines on the other side. The hanger number is 2-RHRA-443 and it supports the component cooling line and the valve 2ZE-3-4. Seismic movement may cause the unit cooler to bump into the I-Beam and the component cooling lines. The drain line from the unit cooler may break as well.	The unit cooler is not safety related, so there is no seismic concern.
AUX 12/22 CC PUMP	Comments	A top cover plate wing nut is missing from the 2RE-39 radiation monitor. There is also a loose screw on the side door cover. The monitor is resting on the floor near the wall, and is located between the 22 component cooling pump and the stairs to the upper level.	The radiation monitor is not safety related. WR 83571 was initiated to replace the wing nut and tighten the loose screw. CAP 01352076 was initiated to document the observation.
AUX NORTH EAST	4	The light fixture above the "VFD" cabinets for 11 and 13 charging pumps is close (roughly 1" gap) to the conduits running into the top of the VFDs.	Plant engineering reviewed this observation and determined that the light fixture located above VFD cabinets for 11 & 13 CHG pumps is not 1" from the cabinets, rather 1" from the conduits coming out of the top of the cabinet. The conduit supports were designed to 11/1 criteria and the VFDs were installed seismic 11/1 to prevent movement which could cause damage during a seismic event. The conduit and associated cables are not expected to break from the impact of the light fixture, rather the bulb in the fixture will likely break. CAP 1352209 was previously written to evaluate changing out all fluorescent lights to a shatter resistant bulb style.
AUX NORTH EAST	7	Duct tape needs to be removed from the special vent zone line discussed in question 4.	The foreign material on the special vent line is a housekeeping issue and has no impact on the equipment. CAP 1352391 was initiated to document this observation.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
AUX NORTH EAST	7	There are two abandoned hanger rods above the component cooling line with hanger rod 1-RHRH-385 near MCC2K BUS 2.	Plant engineering evaluated the two abandoned hanger rods and concluded there were no seismic concerns. However, CAP 01352549 and WR 83712 were initiated to remove the hanger rods for personnel safety reasons during scaffold construction or overhead work.
AUX NORTH EAST	7	There were scaffold carts within 2" of touching the MCC 1L, Bus 2. The cart wheels are chocked but in the wrong orientation. The cart configuration allowed the cart to slide into the MCC. The condition was fixed upon discovery. Site personnel chocked the wheels in the acceptable orientation.	CAP 1355467 has been initiated to document this condition.
AUX 11 RWST	3	There is an abandoned light fixture behind the MCG/J Bus with open "S" hooks.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.
AUX 11 RWST	4	There is also a disconnected light fixture chain near panel 191.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.
AUX 11 RWST	4	There are open "S" hooks on a light fixture above the PT-948 panel.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
AUX RELAY	1	Terminal Box - A1749 (terminal box for high flux) is missing an anchor bolt to wall at the lower right corner. There are three other bolts, therefore SWEL judged that the terminal bolt is seismically anchored to the wall and is acceptable.	WR 83891 has been initiated to address the missing anchor bolt.
AUX SOUTH EAST	1	An anchor bolt is missing on pipe support number 1-CCH-311.	Per the component drawing XH-106-7271, there are only three bolts required for this support. This was document on the as-built EC-17951. Calculation 1-CCH-311 documents the need for only 3 bolts. The support is operable.
AUX SOUTH EAST	2	An anchor is missing on a stanchion beneath the 121 Loop "A" Main Steam isolation valve drain line.	CAP 1353371 has been initiated to evaluate this observation. Additionally, WR 83874 has been initiated to address this observation.
AUX SOUTH EAST	4	There is an abandoned light fixture in the overhead near pipe support 1-CCH-311. It is unattached and should be removed.	CAP 1353409 has been initiated to evaluate this observation. Additionally, WR 83892 has been initiated to address this observation.
AUX 112 BUS	4	There are open "S" hooks on light fixtures. The light fixtures could be a hazard to Bus 112, but not the transformer.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.
AUX 122 BUS	1	The unit cooler in the 122 BUS room has a brace that is attached to the wall with four base plates. One of the plates seems to be bent and there is a 1/4" gap between the plate and the wall.	Plant engineering evaluated this observation and concluded that the gap was not a seismic concern. Warping of 1/4 inch for surface mounted base plates is allowed, per plant procedures.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
AUX 122 BUS	5	The unit cooler supply and return lines (hanger number 1-RHRH-656) are unsupported laterally across the entire room. If the line breaks during a seismic event, there are no floor drains in the room and flooding may occur.	This condition was previously evaluated in a plant calculation which performed a determination of seismic adequacy of ZH system pressure boundary in the Event Monitoring Rooms and other locations within the plant. No additional review is required based on the identified plant documentation. There is no seismic concern.
AUX A E-MON	1	Behind the cabinet RMU2N, one wing nut holding the emergency battery EL-28 is missing.	EL-28 is a non-safety related light. It is located in the train A event monitoring room. The event monitoring equipment located in this room is within cabinets and would not be impacted should the light fall during a seismic event. WR 83724 was initiated to replace the missing nut.
AUX B E-MON	4	The light fixture hanging from the ceiling is about 3" to 6" from an electrical box that is connected to panel 219. During a seismic event the fixture may hit the electrical box.	Molded case circuit breakers are generically considered to be non-vulnerable to contact chatter because of the significant seismic forces required to spuriously operate these devices. Any force imparted by the light fixture falling on the panel would be less significant than the seismic motion of the panel itself. As the panel and breakers are designed to withstand the design basis seismic event, the small impact due to the failure of a light fixture would not affect breaker operation. It is not a seismic concern.
AUX B E-MON	5	If the unit cooler supply and return lines break during a seismic event, it may result in flooding the room. There is no floor drain in the train B event monitoring room. Reference hangers 2-RHRH-453, 2-RHRH-448, 2-RHRH-449, and 2-RHRH-454.	This condition was previously evaluated in a plant calculation which performed a determination of seismic adequacy of ZH system pressure boundary in the Event Monitoring Rooms and other locations within the plant. No additional review is required based on the identified plant documentation. There is no seismic concern.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
AUX DEMIN	4	A light fixture has an open "S" hook near FWH-67. The fixture is not near any equipment, so no action is needed.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.
AUX DEMIN	4	There are light fixtures with open "S" hooks near the loop "A" main steam safety header.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.
AUX DEMIN	6	A wood 10"x20" insert on the floor next to the grating is a combustible.	CAP 1353367 has been initiated to evaluate this observation. Additionally, WR 83876 was initiated to address the observation.
AUX DEMIN	8	The cable trays adjacent to the south wall house cables which are resting on top of, and out of, a tray that is unrestrained laterally.	This configuration does not meet the guidelines for abandoning cables. Therefore, CAP 1353415 has been initiated to evaluate this observation. Additionally, WR 83893 was initiated to correct this condition. No equipment is impacted by the loose cable.
AUX EAST	4	There are open "S" hooks on the lighting in the area above MV-32024. This is not a seismic concern as the lighting will not adversely affect MV-32024.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.
AUX EAST	8	There are two loose ¼" concrete anchors on the bracket supporting PI-17652.	WR 83868 has been initiated to address the observation.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
SSCN 12 DD CLWP	1	121 filtered water strainer adjacent to the diesel oil day tank skid has corroded anchors (wet environment). The corrosion is not significant and only requires cleaning and re-coating. The anchorage of the diesel driven cooling water pump also shows slight corrosion, as it is in a wet environment.	CAP 1352851 was initiated to document this observation, and WR 83771 was initiated to address the corrosion.
TURB 11 AFWP	1	There is a missing fastener on the guard for 121 instrument air compressor.	CAP 1352975 has been initiated to evaluate this observation. Additionally, WR 83793 has been initiated to address this observation.
TURB 11 AFWP	4	There are open "S" hooks on the lighting fixtures near the 11 turbine driven auxiliary feedwater pump. The light fixtures would only swing, and would not impact equipment other than nearby piping or conduits. It is not a seismic concern.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.
TURB 11 AFWP	7	The chain fall for 2AF01301 can potentially strike MCC 1A BUS 1.	CAP 1352961 has been initiated to evaluate this observation. Additionally, WR 83796 has been initiated to address this observation.
TURB 12 BATT	7	The eyewash station is adequately secured to the wall. Water supply on the cart is secured with a bungee cord.	Plant engineering reviewed the restraint for the water supply to the eyewash station and concluded that the bungee cord was an acceptable means of restraining the canister.
TURB 12 BATT	8	As a precaution, the SWEs recommend closing the door pulley "S" hook above door 228.	CAP 1352343 and WR 83645 have been initiated to address this observation.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
TURB EDG D-1	4	There is a possible open "S" hook on a light fixture above the diesel generator control panel.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.
TURB BUS 111	1	There is a gap between the base plate walls for unit cooler. The anchor bolts seem to be tight. Will need to verify if this is acceptable per procedure.	Based on the stated allowed warping of ¼ inch for surface mounted base plates contained in plant guidance, this is considered acceptable.
TURB' BUS 111	1	The back cover bolts are loose for 111M voltage regulator cabinet.	The transformer does not contain any sensitive or essential relays that might be impacted by any small vibration of the panel cover. The function of the transformer is not impacted. WR 83828 was generated to tighten the loose bolts and correct the condition. It is not a seismic concern.
TURB BUS 111	1	A conduit box is attached to Unistrut, and both screws are loose. They are located approximately 10' from the floor and above the voltage regulator.	While the bolt may not be fully tightened, it will ensure the box remains attached to the strut. No equipment function will be impacted. WR 83834 was initiated to tighten the conduit box to the strut. There is no seismic concern.
TURB BUS 111	3	Vertical rigid conduit to box CS19148 (BUS 111 safeguards SWGR unit cooler) and Panel 132-10 has a conduit clamp not attached to the conduit. Located on column E9, it has a misplaced loose attachment at about 10' from floor underneath duct.	Based on a review of the vertical conduit run, the other supports would take the load normally restrained by this conduit clamp. The safety functions of the equipment were not impacted. WR 83829 was initiated to re-attach the clamp to the conduit.
TURB BUS 111	3	The conduit bracket attached to the Unistrut for the conduit running to 480V Bus 111 and 112 control panel seems to be loose with a gap between the bracket and the Unistrut.	The loose bolt was identified to be only on one side of the clamp. The condition still had the clamp tight to the conduit, but did not have the clamp ear tight to the strut attachment. The conduit remained restrained, and did not impact the safety function of the equipment. WR 83833 has been initiated to tighten the loose bolt.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
TURB BUS 111	3	One of the two supports for a light fixture is loose from the wall and the upper anchor bolt for the support is not fully engaged. SWEs judged that the light fixture will remain in place, but recommend that the bolt be tightened.	WR 83834 has been initiated to address this observation.
TURB BUS 111	3	The conduit support on top of the RMU 213 cabinet, on the west wall, has a bolt that is not fully engaged. The support is located about 10' from floor level.	Based on the small load compared to the capacity of the anchors, there is no impact on the equipment's safety functions. WR 83836 was generated to tighten the bolt on the conduit support.
TURB BUS 111	3	An electrical wire is tie wrapped to the conduit above door 54, next to an electrical cable tray.	CAP 1353147 was initiated to document the cable not configured per plant engineering manual. Additionally, WR 83841 was initiated to place the abandoned cable in the correct configuration. The strength of the tape is considered to be capable of restraining the small coil of wire, and it does not impact any equipment functions. There is no seismic concern.
TURB BUS 111	7	A light fixture may come in contact with the flexible conduit going into the 11A transformer. It is located on top of 11A transformer with only 2" of clearance.	CAP 1353277 has been initiated to evaluate this observation.
TURB BUS 15	1	The emergency light EL15, located on the safety related block wall number 26 and above the test station for the breaker cabinets, has a missing wing nut on the one side for the threaded rod holding EL15 on the wall bracket.	The one remaining tie rod will ensure the battery does not come out of the tray. There is no impact to the equipment function based on this condition. However, CAP 1352966 was initiated to document the condition of the light. Additionally, WR 83790 has been initiated to replace the missing wing nut.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
TURB BUS 15	4	A large size flex conduit with a metal end is held in place only with tie wraps. If the tie wraps failed under seismic loading, it is possible that the flex conduit would snap back to an uncoiled position and may impact the side of the RMU-113 cabinet.	The abandoned cable was walked down and its installation compared to plant procedures. The cables are marked and coiled in accordance with this instruction.
TURB BUS 15	8	The bus duct to breaker 15-3 (on the top of breaker 15-3) has a flange connection that has its east side one and a half inch lower than its west side.	The collar protects an expansion joint for the bus duct. The expansion joint consists of a flexible material which is adhesively attached to the two sections. A collar is placed over this joint to provide physical protection and is not required to maintain integrity of the joint. There is no seismic concern.
TURB BUS 15	8	Above breaker 15-6, the conduit support attachment seems to be loose. It is connecting the conduit to the Unistrut.	CAP 1353223 has been initiated to evaluate this observation. Additionally, WR 83835 has been initiated to address this observation.
TURB ROD DRIVE	4	There is an open "S" hook for the light fixture above terminal box A1723 for non-safety related room cooling. There is no seismic interaction concern.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.
TURB ROD DRIVE	5	Supply and return lines to the MTR 154-46 11 rod drive air handler blower have no lateral restraint (rod hung). The blower also has no lateral restraint (three rod trapeze hangers). There may be a potentially large movement at the blower.	The trapeze that is not physically fastened is at the far end of the evaporator unit, which does not contain any equipment of notable weight in relation to the remaining equipment. It is determined that if the end trapeze support were to become dislodged, the remaining supports would be capable of supporting the load of the unit and this does not create a seismic interaction concern.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
AUX 11/21 CC PUMP	1	It appears that CS-19543 is not anchored to the wall. There are four external holes in the bracket for fasteners but no fasteners are present.	The switch is connected to rigid conduit. CS-19543 is part of an active engineering change. As a result, the switch has not been classified, and the system is not yet turned over to Operations. Additionally, the SWEs judge that the length of rigid conduit currently holding CS-19543 in place is an acceptable seismic restraint with respect to seismic interaction of the switch with other pieces of equipment in its vicinity. It is not a seismic concern.
AUX 11/21 CC PUMP	7	Two drums are present under the component cooling heat exchanger to collect leak off. The drums are poorly tied off by rope to a small copper drain line for the 11 component cooling pump unit cooler.	CAP 01353280 has been initiated to evaluate this observation. In addition to writing the action request, WR 83853 has been initiated to address the observation.
AUX 11/21 CC PUMP	8	One of the two floor brackets for the Unistrut that supports the component cooling motor power cables appears to be bent and the anchor is loose. There is a tygon tube wedged under the corner.	CAP 1353327 has been initiated to evaluate this observation. In addition to writing the action request, WR 83865 has been initiated to address the observation.
AUX CONTROL ROOM	4	There are lighting diffusers tied off to the support grid. Unit 1 and Unit 2 "C" panels have a fluorescent light fixture on chains too close (within 1"-2") to the panel.	CAP 01352209 has been initiated to evaluate this observation.
AUX CONTROL ROOM	7	The trash can next to the racks R23, R24, R13, and R14 are immediately adjacent to the racks, which violates the seismic housekeeping procedure.	The trash cans are located next to non-safety related miscellaneous racks. This condition is acceptable per site procedure guidance. There is no seismic concern.
AUX CONTROL ROOM	7	There were several open S-hooks on light fixtures (nearest the panel in most cases).	CAP 01352001 was initiated to evaluate this observation. Off of CAP 01352001, WR 83556 was initiated to address this observation.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
AUX CONTROL ROOM	7	Step ladder adjacent to racks R23, R24, R13 and R14 is also too close to the racks. The wheels should be chocked.	The trash cans are located next to non-safety related miscellaneous racks. There is no impact to the equipment. However, all wheeled carts should be chocked. The FIN team has been notified to chock the wheels.
AUX CONTROL ROOM	8	Unit 1 and Unit 2 "E" panels have side panels that have slid out of position. This is a housekeeping issue and not a seismic concern.	CAP 01352102 has been initiated to evaluate this observation. In addition to writing an action request, WR 83579 has been initiated to address this observation.
AUX CONTROL ROOM	Comments	Fire extinguisher bracket 224 has a rotated bracket (into the insulation) and should be repaired.	The fire extinguisher is not located near equipment that could be impacted if the fire extinguisher came free from its mounting bracket. WR 83584 was written to replace the mounting bracket.
AUX CONTROL ROOM	Comments	The filing cabinets adjacent to the main control board in both Unit 1 and Unit 2 are close to the main control board.	This condition does not meet the seismic housekeeping procedures; therefore CAP 1357683 has been initiated to evaluate this observation. There is no adverse seismic concerns.
AUX CONTROL ROOM	Comments	A set of drawers next to the in-core logic selection switch panel are close to the panel.	The drawers have a small mass and are located on the floor of the control room. The aspect ratio was determined to be greater than two and it will not slide across the carpeted floor. If the drawers did slide out in a seismic event, they would not impact any equipment. Therefore, there is no seismic concern.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
AUX CONTROL ROOM	Comments	The cart adjacent to the Protection Systems III and the cart adjacent to cabinets RPI-1, -2, and -3 in Unit 1 are close to the equipment. The chain is not used to restrain the carts.	The cart adjacent to the Protection System III supports a computer and monitor. The computer and monitor are securely fastened to the cart and the cart has been secured per procedures, so there is no seismic concern. However, the top of the monitor slightly exceeds the aspect ratio defined per the seismic housekeeping procedure. CAP 1357686 was initiated to address the observation. The cart will not affect equipment in the area. As for the cart adjacent to RPI-1, -2, and -3, plant engineering noted that one restraint is not currently being used. The cart for this restraint is secured in three other locations and by a wheel chock. The cart is sufficiently restrained and will not affect equipment in the area. It is not a seismic concern.
AUX SFP HX 122	1	The Unistrut support for panel 1LPB-4 and 1RPB3 seems to have no anchor bolts on one of the legs. There are anchor bolts for the other leg. The leg might have poor quality fillet welds. 1LPB-4 is mounted on a Unistrut frame that also supports 1RPB3 and the three transformers above. The Unistrut frame is clip angled to a structural column in three places and is welded to an I-beam at both ends. If there is no fillet weld on the left leg, the frame is still seismically adequate and will not pry off the wall and impact MCC 1GA Bus 1.	CAP 01352426 has been initiated to document the missing anchors and WR 83676 was initiated to install anchors for the leg that's missing anchors.
AUX SFP HX 122	Comments	The cover plate on the end of the MCC 1GA BUS 2 cabinet is missing a bolt.	CAP 01352415 has been initiated to evaluate the observation. In addition, WR 83671 has been initiated to address the condition.
AUX SFP HX 122	Comments	There are open "S" hooks for lighting fixtures in some of the locations in the heat exchanger area.	CAP 1352001 has been initiated to evaluate the open "S" hooks on light fixtures which have been identified during these walkdowns. In addition to this action request, WR 83556 has been initiated to address these observations.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
AUX SFP HX 122	Comments	A single light fixture has duct tape and it needs to be removed for housekeeping.	CAP 1352391 has been initiated to address this foreign material.
AUX SFP HX 122	Comments	The 122 spent fuel pool heat exchanger component cooling inlet line has two ultrasonic flow measurement devices strapped to the pipe with a metal strap.	The devices are shown as installed on the pipe with a mounting strap kit per the described field installation in the vendor technical manual. The mounting is considered acceptable and will have no seismic impact.
AUX SFP HX 122	Comments	There is scaffolding tied to the spent fuel pool heat exchanger 122. One of the scaffold couplers is within 1" of touching CC-43-7.	CAP 1352559 has been initiated to evaluate this observation.
AUX SFP PUMP 122	7	There are stored Operations test equipment above the electrical cabinet 1RPB6 next to the 121 spent fuel pool pump. Also, there are electrical wires loosely tied around the piping next to the 184 entry door.	WR 83723 was written to secure the instrumentation and cabling in accordance with site procedures. CAP 1352586 was written to address the long term equipment configuration control issue.
AUX SFP PUMP 122	8	A 3" copper line is running along the ceiling above 121 and 122 pumps. It has beam clamps in the same direction and a broken hanger rod. This configuration may be vulnerable in a seismic event.	CAP 1352733 was written to document this observation, and WR 83747 was initiated to re-attach the broken support.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
AUX SFP PUMP 122	Comments	There are four maintenance stands (CTV upper frame stands) about 5' high with four legs. One of the cabinets is next to the steam heating line, and it is not tied down to any structural member.	The stands are located in the southeast corner of the fuel handling building next to two heating system lines. The stands are not secured, and could move during a seismic event. They may cause failure of the heating lines. The area that the stands are located is considered a harsh area, as there are four high energy line break (HELB) doors that are designed to discharge steam from a HELB into this area. The amount of steam coming through these doors into the fuel handling area from a HELB would bound a break from these heating system lines. There is no seismic concern.
AUX SFP PUMP 122	Comments	The radiation protection stands with signs for contaminated area are close to the 121 spent fuel pool pump and could potentially impact the glass oil bubbler on the pump. One stand is not rolled, and the other stand is not taped.	The 121 SFP Pump (Component ID 045-101) is not safety related. Per the vendor manual for the pump, the oil glass is for level control only. The rest of the constant level oiler is steel and will maintain oil in the reservoir if the glass portion is lost. In the event the glass were broken, the condition would be noticed by Operators on routine rounds prior to oil level in the bearing housing reaching an unacceptably low level. It is not a seismic concern.
AUX SFP PUMP 122	Comments	There is lead radiation protection shielding chained to the wall near the spent fuel pool skimming pumps. If the shielding falls, it could potentially damage the tubing.	CAP 1352586 has been initiated to evaluate this observation. WR 83641 has been initiated to improve the shielding tie-off.
AUX SFP PUMP 122	Comments	A fire protection valve near the ceiling is using a tie wrap to hold the valve handle in position.	The valve is tagged "CLOSED" with a Danger tag under a clearance order. As allowed by plant procedures, tie wraps are commonly used as the second means when tagging out valves at PINGP by the Operations department. It is not a seismic or safety concern.

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Table F-2: Disposition of Area Walk-By Observations			
Area Walk by Checklist	Question No.	Observation	Disposition
AUX SFP PUMP 122	Comments	The 121 spent fuel pump has a cover between the motor and the pump that is tied with two metal tie wraps. This cover is a radiation protection shield and has no impact on the pump.	It is not a seismic concern.