ENCLOSURE TO NL-12-168

INDIAN POINT UNIT NO. 3

SEISMIC WALKDOWN REPORT

ENTERGY NUCLEAR OPERATIONS, INC.
INDIAN POINT NUCLEAR GENERATING UNIT NO. 3
DOCKET NO. 50-286

Entergy

ENTERGY NUCLEAR
Engineering Report Cover Sheet

Engineering Report Title:

Indian Point Energy Center, Unit 3 Seismic Walkdown Report for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic

Engineering Report Type:

New ☒ Revision ☐ Cancelled ☐ Superseded ☐
Superseded by: _____

Applicable Site(s)

IP1	☐	IP2	☐	IP3	☒	JAF	☐	PNPS	☐	VY	☐	WPO	☐
ANO1	☐	ANO2	☐	ECH	☐	GGNS	☐	RBS	☐	WF3	☐	PLP	☐

EC No. 40458

Report Origin: ☐ Entergy ☒ Vendor
Vendor Document No.: N/A

Quality-Related: ☐ Yes ☒ No

Prepared by: _____ Date: 11/20/2012
Maggie Farah (ENERCON)

Reviewed by: _____ Date: 11/20/2012
Thomas Panayotidi (Peer Review Team Leader, ENERCON)

Reviewed by: _____ Date: 11/20/2012
Nick Crispell (ENERCON)

Approved by: _____ Date: 11/20/12
Richard Drake (ENTERGY)

Approved by: _____ Date: 11/20/12
Thomas McCaffrey (Design Manager, ENTERGY)

Indian Point Energy Center, Unit 3 Seismic Walkdown Report

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

TABLE OF CONTENTS

1.0 SCOPE AND OBJECTIVE

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

The Electric Power Research Institute (EPRI), with support and direction from the Nuclear Energy Institute (NEI), published industry guidance for conducting and documenting the seismic walkdowns which represented the results of extensive interaction between NRC, NEI, and other stakeholders. This industry guidance document, EPRI Report 1025286 [Ref. 2], hereafter referred to as "the Guidance," was formally endorsed by the NRC on May 31, 2012. Entergy Indian Point Energy Center (IPEC), Unit 3 has committed to using this NRC-endorsed guidance as the basis for conducting and documenting seismic walkdowns for resolution of NTTF Recommendation 2.3: Seismic. To this end, Entergy has prepared Fukushima Near-Term Task Force Recommendation 2.3 Seismic Walk-down Procedure EN-DC-168 to govern the performance of the seismic walkdowns and preparation of the seismic report.

The objective of this report is to document the results of the seismic walkdown effort undertaken for resolution of NTTF Recommendation 2.3: Seismic in accordance with the Guidance and under the guidance of Entergy procedure EN-DC-168, and provide the information necessary for responding to Enclosure 3 to the 50.54(f) Letter.

2.0 SEISMIC LICENSING BASIS SUMMARY

Indian Point Energy Center, Unit 3 is a pressurized water reactor (PWR) located in Buchanan, New York. The Nuclear Steam Supply System (NSSS) was originally designed by Westinghouse Electric Corporation. The Indian Point Energy Center consists of two similar units, Indian point 2 (IP2) and Indian Point 3 (IP3). Unit 1 is decommissioned. IP3 began commercial operation in December of 1976, and is currently rated at 1080 MW electric output from the turbine-generator [Ref. 3]. This section summarizes the seismic licensing basis of structures, systems and components (SSCs) at IP3, which bound the context of the NTTF 2.3 Seismic Walkdown program.

2.1 SAFE SHUTDOWN EARTHQUAKE (SSE)

The safe shutdown earthquake for the Indian Point Energy Center Unit 3 site conforms to the average of response spectra developed by Housner, and is anchored at 0.15g peak horizontal ground acceleration and 0.10g peak vertical ground acceleration [Ref. 3].

2.2 DESIGN OF SEISMIC CATEGORY I SSCs

The following text within this section (2.2) has been extracted from the Indian Point 3 UFSAR and all cross references, herein, are provided in the UFSAR [Ref. 3].

Class I

All components, systems and structures classified as Class I were designed in accordance with the following criteria:

2.2.1 Primary steady state stresses, when combined with the seismic stress resulting from the application of seismic motion with a maximum ground acceleration of 0.05g acting in the vertical and 0.1g acting in the horizontal planes simultaneously, are maintained within the allowable stress limit accepted as good practice and, where applicable, set forth in the appropriate design standards, e.g. ASME Boiler and Pressure Vessel Code, USAS B31.1 Code for Pressure Piping, ACI 318 Building Code Requirements for Reinforced Concrete, and AISC Specifications for the Design and Erection of Structural Steel for Buildings.

2.2.2 Primary steady state stresses when combined with the seismic stress resulting from the application of seismic motion with a maximum ground acceleration of 0.10g acting in the vertical and 0.15g acting in the horizontal planes, simultaneously, are limited so that the function of the component, system or structure shall not be impaired as to prevent a safe and orderly shutdown of the plant.

No loss of function implies that rotating equipment will not freeze, pressure vessels will not rupture, supports will not collapse under the load, systems required to be leak tight remain leak tight and components required to respond actively (such as valves and relays) will respond actively. The criteria for functional adequacy of the structures state that stresses do not exceed yield when subjected to seismic motion with a 0.15g maximum ground acceleration. Seismic Class I equipment associated with the primary reactor coolant loop was designed in accordance with the requirements of Section III of the ASME Boiler and Pressure Vessel Code for Nuclear Vessels for response to a 0.15g maximum ground acceleration earthquake. All seismic Class I piping was designed in accordance with the USAS Code for Pressure Piping B31.1.0 for response to 0.15g maximum ground acceleration earthquake.

For the Containment design, refer to the Containment Design Report (Appendix 5A).

2.2.3 The seismic design criteria and qualification testing employed to assure the adequacy of seismic Class I electrical equipment are discussed in Section 7.2. The control board is not considered protection equipment. Typical switches and indicators for safeguards components were tested to determine their ability to withstand seismic forces without malfunction which would defeat automatic operation of the required component. The control boards are stiff, and past experience indicates that amplification of the board structure and accelerations seen by the devices mounted therein is considerably less than the subsequent acceleration which was shown the device could withstand in testing. Some components, for instance most pumps, required no additional restraints in order to meet the seismic criteria. Tanks generally required thicker walls and/or wall stiffeners and heavier support members and anchor bolts. Battery racks and instrument racks generally required heavier supports, cross bracing and heavier anchor bolts. The protection system equipment racks are bolted to the floor; no other seismic restraints were employed or deemed necessary to meet the seismic criteria. The type testing described in Section 7.2 used the same bolting arrangement as employed in the plant installation.

Seismic analysis of selected seismic Class I components including heat exchangers, pumps, tanks and valves, as well as seismic Class I structures, was performed using one of three methods depending on the relative rigidity of the equipment being analyzed:

(1) Equipment which is rigid and rigidly attached to the supporting structure was analyzed for a g-loading equal to the acceleration of the supporting structure at the appropriate elevation,

(2) Equipment which is not rigid, and therefore a potential for response to the support motion exists, was analyzed for the peak of the floor response curve with appropriate damping values;

(3) In some instances, non-rigid equipment was analyzed using a multi-degree-of freedom modal analysis including the effect of modal participation factors and mode shapes together with the spectral motions of the floor response spectrum defined at the support of the equipment. The inertial forces, moments, and stresses were determined in each mode. They were then summed using the square-root-sum-of the-squares method. Where structures were too complex to analyze, testing was performed.

The reactor coolant loop piping and main steam and main feedwater piping inside containment were seismically analyzed by Westinghouse using the computer code WECAN for the Reactor Coolant Loop and the computer code WESTDYN for the main steam and main feedwater lines. Verification of the computer codes for both static, linear and nonlinear elastic dynamic analysis capability has been performed. Reduced modal analysis method and modal superposition method are used in the time history seismic analyses.

The reduced modal analysis is used to determine the natural frequencies and mode shapes for a linear, undamped structure. This analysis requires the specification of dynamic or active degrees of freedom (DOF) for the model, which are a subset of the total number of DOF. The selection of dynamic DOF must be such that the low frequency spectrum can accurately be presented while a reduced eigenvalue problem is solved. In other words, the selected or dynamic (or active) DOF should be able to describe the frequency modes at interest.

The modal superposition method gives a time history solution for the response of an arbitrary structure subjected to known modal forces or ground acceleration time histories. The structure may include linear or non-linear elements. The uncoupled modal equations are integrated analytically.

The input to the time history DBE seismic analysis is in the form of time history seismic motions applied individually at the containment base mat in the north-south, east-west and vertical direction. These time histories seismic motions are based on those used in developing response spectra. The total response is obtained by determining the maximum response from combining absolutely one of the horizontal responses with the vertical seismic response.

Seismic Class I piping having a diameter 6" or larger plus the high head safety injection piping were initially designed statically using spacing tables which reflected the simultaneous application of horizontal and vertical spectral accelerations corresponding to 0.67 and 0.5 times the peak of the amplified floor response spectrum, respectively, developed at the

support elevation of the piping system. A multi-degree-of-freedom dynamic analysis using the computer code ADLPIPE employing a dynamic model of the system and the applicable floor response spectrum as input motion was then performed to confirm the static design and analysis. The dynamic analysis successfully confirmed the conservatism of the static design.

Seismic Class I piping less than six inches in diameter was statically analyzed using spacing tables for simultaneously applied horizontal and vertical spectral accelerations corresponding to 2.0 and 1.33 times the peak of the amplified floor response spectrum, respectively, developed at the support elevation of the piping system. The coefficient of two times the peak of the amplified floor response spectrum was selected to account conservatively for modal participation factor effects in each mode and the contribution of higher modes. The design conservatism inherent in such a procedure has been verified by earlier comparative studies (Ginna, H.B. Robinson, and IP-2 Plants) relating seismic design stresses determined by coefficients from the peak of applicable floor or ground response spectrum to those determined by multi-degree-of-freedom detailed modal dynamic analysis.

The six inch diameter was selected as the dividing point because the reduction in pipe support hardware made possible by the more rigorous multi-degree-of-freedom detailed modal dynamic analysis below the six inch size (as opposed to the simplified double-the-peak response) did not warrant its use.

Non-rigid components and equipment components and equipment were only analyzed for an equivalent static load for vertical and horizontal seismic inputs if a dynamic analysis of a multidegree-of-freedom model of similar component or piece of equipment has shown that the equivalent static load used gives conservative results. It is noted that, as described above, for piping having a diameter less than six inches, twice the peak of the floor response spectrum was used to determine the equivalent static loading. Analytical methods employed in the design of other seismic Class I structures, systems, and components are:

ITEM	METHOD
1. Reactor coolant loop piping and main stream and main feedwater piping inside containment	Multi-degree-of-freedom modal analysis response spectra
2. All other Class 1 Piping ≥6" Dia. (including two inch high head safety injection lines	Equivalent static analysis and confirmatory multi-degree-of freedom modal analysis response spectra.
<6" Dia	Equivalent static analysis
3. Refueling Water Storage Tank	Multi-degree-of-freedom modal analysis response spectra
4. Primary Auxiliary Building ventilation system	Equivalent static load
5. Condensate Storage Tank analysis response spectra	Multi-degree-of-freedom modal

6. Containment Penetration and Weld Channel Pressurization System	Equivalent static load
7. Diesel Generators	*See NOTE
8. Fuel Oil Storage Tanks	No specific seismic design (UL approved, buried, atmospheric design pressure)
9. DC Power Supply System	Equivalent static load
10. Power Distribution lines to equipment required for transformers and switchgear supplying the engineered safety features	Equivalent static load analysis on cable tray supports
11. Control equipment, facilities and lines necessary for Items 6 through 9	Equivalent static load
12. Auxiliary Feedwater System and Building	As outlined in the Authority's response to NRC Generic letter No. 81-14 (IPN-81-66, 8/28/81)
13. Containment crane	Equivalent static load
14. Emergency Boiler Feed Pumps and Service Water Pumps	Equivalent static load

*NOTE: No seismic design analysis was provided by the manufacturer of the Emergency Diesel Generator. However, the manufacturer of the diesel engine stated the following: "The diesel engine provided (for IP-2 and IP-3) was originally designed as a prime motive power unit for locomotive service. To meet these requirements, all component parts of the engine were designed to withstand minimum shock loads of 2.5g in any direction. This engine when modified for other uses retain this design criteria, as well as all allied equipment required. The engine foundation and sub-base are included."

In addition, the manufacturer of the generator portion of the units stated: "Machines of this type have been transported via rail shipment all over the United States without experiencing difficulty. Rail shipment experience indicate that shock loads of a magnitude of 2G's are common."

The methods utilized to determine the seismic input to these components are stated in the seismic design criteria.

3.0 SEISMIC WALKDOWN PROGRAM IMPLEMENTATION APPROACH

Entergy IP3 has committed to conduct and document seismic walkdowns for resolution of NTTF Recommendation 2.3: Seismic in accordance with the EPRI Seismic Walkdown Guidance [Ref. 2]. The approach provided in the Guidance for addressing the actions and information requested in Enclosure 3 to the 50.54(f) Letter includes the following activities, the results of which are presented in the sections shown in parenthesis:

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

The coordination and conduct of these activities was initiated and tracked by Entergy corporate leadership, which provided guidance to each Entergy site throughout the seismic walkdown program, including Indian Point Energy Center, Unit 3. Entergy contracted with an outside nuclear services company to provide engineering and project management resources to supplement and assist each individual site. Each site had dedicated engineering contractors, supported by their own project management and technical oversight, who worked closely with plant personnel.

4.0 PERSONNEL QUALIFICATIONS

The NTTF 2.3 Seismic Walkdown program involved the participation of numerous personnel with various responsibilities. This section identifies the project team members and their project responsibilities, and provides brief experience summaries for each. For organizational purposes, personnel are presented as being primarily involved with either the walkdown effort or the peer review. Training certificates of those qualified as Seismic Walkdown Engineers are included in Attachment I.

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

Table 4-1

Name	Equipment Selection Personnel	Seismic Walkdown Engineer	Licensing Basis Reviewer	IPEEE Reviewer
Richard Drake (ENTERGY)	X		X	
Douglas Gaynor (ENTERGY)	X			
Richard Gioggia (ENTERGY)	X			
William Schmidt (ENTERGY)	X[1]			
Michael Koutsakos (ENTERGY)	X			
Michael Dries (ENTERGY)	X			
John Skonieczny (ENTERGY)	X			
Maggie Farah (ENERCON)		X		
Paul Huebsch (ENERCON)		X	X	
Stephen Yuan (ENERCON)		X		
Kai Lo (ENTERGY)	X	X[2]		
Dragos Nuta (ENTERGY)			X	X

Notes:

1. Plant operations representative
2. Designated lead SWE

Richard Drake, PE

Mr. Richard Drake is the Civil/Structural Design Engineering Supervisor for Entergy Nuclear at the Indian Point Nuclear Plant. He has over 30 years of nuclear power generation experience, of which 18 years have been as an Indian Point Supervisor. His broad experience includes design engineering activities associated with Seismic qualification of components, piping and structures. Mr. Drake is an EPRI trained Fukushima NTTF Recommendation 2.3 Seismic Walkdown Engineer as well as being trained in the EPRI NARE/STERI seismic qualification method. Mr. Drake is a registered Professional Engineer in both NY and NJ.

Douglas Gaynor

Mr. Douglas Gaynor is a Senior Lead Engineer for Entergy Nuclear at the Indian Point Energy Center, responsible for probabilistic safety assessment (PSA). He holds a Bachelor Degree and Master Degree in Mechanical Engineering from Manhattan College and has 38 years of experience in the nuclear industry, including over 25 years in the area of probabilistic safety assessment. His nuclear experience also includes radiological and accident analysis, regulatory response and project coordination.

Richard Gioggia

Mr. Gioggia is an Engineering III for the Entergy Nuclear at Indian Point Plant. He has a Bachelor's degree in Mechanical Engineering from Manhattan College with 5 years of experience as a System Engineer at IPEC. He was also involved in the initial walkdowns for the Fukushima IER 11-1 responses for IPEC.

William Schmidt

Mr. William Schmidt is a Control Room Supervisor at Indian Point 3. After serving in the Navy Nuclear Power Program as an Engine Room Supervisor he spent 10 years as a Nuclear Plant Operator, 10 years as a Licensed Reactor Operator and the last ten years as a Licensed Senior Reactor Operator, all at Indian Point 3.

Michael Koutsakos

Mr. Michael Koutsakos is a Technical Specialist IV for the Main Steam Systems for Entergy Nuclear Northeast at Indian Points Energy Center. Mr. Koutsakos has an Associate of Applied Science Degree in Nuclear Technology, 27 years of nuclear experience at IPEC, 20 of which in the Operations Department including a Reactor Operators License. He has extensive knowledge of plant operations and procedures, accident and transient analysis and design bases functions of safety related SSC's.

Michael Dries

Mr. Michael Dries is a Senior Systems Engineer with Entergy Nuclear Operations, Inc. and a staff Engineer at Indian Point Energy Center. He has over 38 years of experience in the Nuclear Industry and has held this position in System Engineering for approximately 19 years. Roles and responsibilities include trending of system performance, maintenance effectiveness, evaluation of degraded operation, classification of system components and knowledge of component design and licensing basis. He has or has had responsibility for the Reactor Coolant System, Spent Fuel Pool Cooling System, Fuel Handling System, Instrument Air System and Station Air System. He holds a Master of Science Degree in Mechanical Engineering from the New Jersey Institute of Technology.

John Skonieczny

Mr. Skonieczny is a Senior Civil/Structural Engineer and licensed Professional Engineer in the state of New York. He is SQUG qualified and has been at IPEC for over 10 years.

Maggie Farah

Ms. Farah is a Civil/Structural Engineer in ENERCON's NJ office. She has over 4 years of experience performing structural analysis and design in nuclear industry. Her experience includes developing and analyzing finite element models using a variety of software to aid the design of numerous structural components and systems. She is experienced in preparing design calculations and analysis of concrete and steel structures, conducting dynamic analyses of structures to resist seismic and hydrodynamic loads, designing various structural support systems to comply with regulations and restrictions at nuclear facilities. Ms. Farah is an EPRI trained Fukushima NTTF Recommendation 2.3 Seismic Walkdown Engineer and was a Seismic Walkdown Engineer for Plant Farley.

Paul Huebsch

Mr. Huebsch has worked as an ENERCON Civil/Structural Engineer for the past 9 years, and has successfully completed Training on Near Term Task Force Recommendation 2.3 Plant Walkdowns on 09/13/2012. He has a bachelor's degree and a master's degree with majors in structural engineering. Mr. Huebsch has 47 years of structural engineering experience in commercial, industrial and nuclear fields. He is an active professional engineer in the state of New Jersey and was previously licensed in 12 other states.

Stephen Yuan

Mr. Stephen Yuan, P.E is assigned to the ENERCON New Jersey office as a Senior Civil Engineer. Mr. Yuan has over 20 years of experience in structural computer modeling, design, rehabilitations, upgrading, electrical facility structure analyses and maintenance of industrial installations and nuclear power plants, including significant experience at Perry, Pilgrim and

Vermont Yankee Plant. Mr. Yuan was one of the key civil engineers in support of the transformer replacement project at Perry Nuclear Power Plant. Mr. Yuan holds a M.S. in Civil Engineering and PE in the states NY, NJ, PA, and NH.

Kai Lo

Mr. Kwok Kai Lo is a senior engineer for Entergy Nuclear at Indian Point Nuclear Plant. Mr. Lo is a civil/structural engineer by degree with over 30 years of experience in the nuclear industry. He has served roles in Maintenance Rule Structural Monitoring, plant modifications, FAC program wall thinning evaluations, piping and pipe support design engineering. Mr. Lo is experienced in performing various types of structural analysis for license basis and operability. Mr. Lo is an EPRI trained SQUG Seismic Capability Engineer since 1993.

Dragos Nuta

Mr. Dragos Nuta is a senior staff engineer for Entergy Nuclear at the Indian Point Energy Center and a Registered Professional Engineer. He is a civil/structural engineer with over 30 years of experience in the nuclear industry. He is a member of the ACI 349 Committee and a member of the ASCE Dynamic Analysis of Nuclear Structures Committee. Mr. Nuta is certified as a SQUG Seismic Capability Engineer and Fukushima NTTF Recommendation 2.3 Seismic Walkdown Engineer.

4.1 EQUIPMENT SELECTION PERSONNEL

A total of 8 individuals served as Equipment Selection Personnel – see Table 4-1.

4.2 SEISMIC WALKDOWN ENGINEERS

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

4.3 LICENSING BASIS REVIEWERS

A total of 3 individuals served as Licensing Basis Reviewers – see Table 4-1.

4.4 IPEEE REVIEWERS

A total of 1 individual served as IPEEE Reviewer – see Table 4-1.

4.5 PEER REVIEW TEAM

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

Table 4-2

Name	SWEL Peer Reviewer	Walkdown Peer Reviewer	Licensing Basis Peer Reviewer	Submittal Report Peer Reviewer	Submittal Report Additional Reviewer
Thomas Panayotidi (ENERCON)	X	X[1]	X	X[1]	
Kenneth Whitmore(ENERCON)	X[1]				
Pouria Pourghopadi (ENERCON)		X		X	
Paul Huebsch (ENERCON)			X		
Joseph Ruch (ENTERGY)			X		
Chimanlal Patel			X		
Richard Drake			X		
Dan Nuta			X		
Nicholas Crispell					X

Notes:

1. Peer Review Team Leader

Thomas Panayotidi

Dr. Panayotidi has worked as an ENERCON Civil/Structural Consulting Engineer for the past year, and has successfully completed Training on Near Term Task Force Recommendation 2.3 Plant Walkdowns on 09/13/2012. Dr. Panayotidi has a Doctorate of Engineering Science in Civil Engineering/Engineering Mechanics, with emphasis in finite element analysis, particularly for seismic and other dynamic loads. Dr. Panayotidi has over 30 years' experience as a Structural/Seismic Engineer in the nuclear field.

Kenneth Whitmore

Mr. Ken Whitmore is a senior structural engineer with ENERCON who has performed evaluations of structures at Perry, Oyster Creek, Humboldt Bay, Robinson, Millstone, Indian Point, Diablo Canyon, Grand Gulf, and St Lucie. Mr. Whitmore was the lead structural engineer for the Dry Fuel Storage designs at Grand Gulf and Robinson as well as performing analysis and design for dry fuel projects at Millstone, Diablo Canyon, Humboldt Bay and St. Lucie. Mr. Whitmore also performed structural analysis for security upgrade work at Robinson, Indian Point, Nine Mile Point and Fitzpatrick and structural assessments at Crystal River, Perry, St. Lucie and Davis Besse. Mr. Whitmore has been responsible for reviewing

documents related to the seismic issues associated with several COL applications and for developing conceptual designs for balance of plant systems and components for proposed new nuclear plants, related to COL applications. He is currently the lead structural engineer in the ENERCON Mt. Arlington, NJ office, responsible for continuing plant services and completed the Training on Near Term Task Force Recommendation 2.3 Plant Walkdowns on 06/21/2012.

Pouria Pourghopadi
Mr. Pourghobadi is a civil/structural Engineer with ENERCON. Mr. Pourghobadi has successfully completed Training on Near Term Task Force Recommendation 2.3 Plant Seismic Walkdowns in 09/13/2012. Mr. Pourghobadi has performed civil/structural engineering support to various nuclear facilities included steel and foundation analysis and design

Joseph Ruch
Mr. Ruch graduated in May 2008 with a B.S in engineering from Roger Williams University. Currently Mr. Ruch has 4 years of engineering experience all at IPEC.

Chimanlal Patel
Mr. Patel has a B.S. in Civil engineering from University of Missouri. Mr. Patel worked in the design of various nuclear plants since 1967. He worked as an engineer for nuclear plants for Sargent and Lundy in Chicago, United Engineers in Philadelphia, Bechtel Corp in San Francisco, Stone and Webster and Ebasco at Commanche Peak Nuclear Station. Last 24 Years Mr. Patel worked for Con Edison and Entergy at Indian point Units 2 and 3 in Civil engineering Department.

Nicholas Crispell
Mr. Crispell has worked as an ENERCON Civil/Structural Engineer for the past 4 years, and has successfully completed Training on Near Term Task Force Recommendation 2.3 Plant Walkdowns on 09/13/2012. He has a bachelor's degree and a master's degree with majors in structural engineering. Mr. Crispell has 9 years of structural engineering experience in residential, commercial, and the nuclear fields. He is an active professional engineer in the state of Georgia.

Paul Huebsch (See Section 4.0)

Richard Drake (See Section 4.0)

Dan Nuta (See Section 4.0)

5.0 IPEEE VULNERABILITIES REPORTING

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

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

The seismic vulnerabilities identified for IP3 during the IPEEE program are reported in Attachment A. A total of one seismic vulnerability was identified by the Indian Point Energy Center, Unit 3 IPEEE program. The table in Attachment A includes three pieces of information requested by Enclosure 3 of the 50.54(f) Letter:

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

The list of IPEEE vulnerabilities provided in Attachment A was used to ensure that some equipment enhanced as a result of the IPEEE program were included in SWEL1 (see Section 6.1.2).

6.0 SEISMIC WALKDOWN EQUIPMENT LIST DEVELOPMENT

This section summarizes the process used to select the SSCs that were included in the Seismic Walkdown Equipment List (SWEL) in accordance with Section 3.0 of the Guidance. A team of equipment selection personnel with extensive knowledge of plant systems and components was selected to develop the SWEL. The SWEL is comprised of two groups of items:

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

The final SWEL is the combination of SWEL1 and SWEL2. The development of these two groups is described in the following sections.

6.1 ITEMS SUPPORTING THE FIVE SAFETY FUNCTIONS

Safe shutdown of the reactor involves four safety functions:

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

Maintaining containment integrity is the fifth safety function:

- Containment function (CF)

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

6.1.1 Base List 1

Based on Figure 1-1 and Section 3.0 of the Guidance, Base List 1 should represent a set of Seismic Category (SC) I equipment or systems that support the five safety functions. Base List 1 was derived from both the IPEEE equipment list and the USI-

A46 equipment list. The portion of the IP2 and IP3 IPEEE addressing seismic events used a probabilistic risk analysis rather than a seismic margins approach to address beyond design basis events. Since the analysis provided an integrated assessment of the plant, it inherently addressed the five safety functions. The objective of the USI-A46 program was to develop a list of equipment that will provide safe shutdown of the reactor and maintain a safe stable state in response to a design basis earthquake. The USI-A46 equipment list was also used as a starting point for the NTTF 2.3 Seismic Walkdown Base List 1.

Base List 1 is presented as Table 1 in Attachment B, and has 1034 total items.

6.1.2 SWEL 1

Based on Figure 1-1 and Section 3.0 of the Guidance, SWEL 1 should represent a diverse population of items on Base List 1 including representative items from some of the variations within each of five sample selection attributes. Additionally, the selection of SWEL 1 items includes consideration of the importance of the contribution to risk for the SSCs. Equipment Selection Personnel (see Section 4.0) developed SWEL 1 using an iterative process. The following paragraphs describe how the equipment selected for inclusion on the final SWEL 1 are representative with respect to each of the five sample selection attributes while also considering risk significance. In general, preference for inclusion on SWEL 1 was given to items that are accessible and have visible anchorage while still maintaining the sample selection attributes.

SWEL 1 is presented as Table 2 in Attachment B, and has 101 total items.

Variety of Types of Systems

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

Major New and Replacement Equipment

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

Variety of Equipment Types

According to Appendix B of the Guidance, there are 22 classes of mechanical and electrical equipment. The items on Base List 1 were classified accordingly and the total number from each class was determined. Items were then selected from Base List 1 ensuring that each of the equipment classes were represented and they were also represented on SWEL 1 in approximately the same ratios. The equipment class of each item on SWEL 1 is listed on Table 1 of Attachment B. Note that SWEL 1 does not include class 3 or 11 components because these are not represented on Base List 1.

Variety of Environments

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

IPEEE Enhancements

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

Risk Significance

Information from the plant Probabilistic Risk Analysis (PRA) model and the Maintenance Rule implementation documentation were used to determine whether items were risk significant. Where otherwise comparable items could be chosen relative to the sample selection attributes, the item with higher risk significance was chosen.

6.2 SPENT FUEL POOL ITEMS

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

6.2.1 Base List 2

Based on Figure 1-2 and Section 3.0 of the Guidance, Base List 2 should represent the Seismic Category I equipment or systems associated with the SFP. To develop Base List 2, Equipment Selection Personnel (see Section 4.2) reviewed plant design and licensing basis documentation and plant drawings for the SFP and its associated cooling system.

Base List 2 is presented as Table 3 in Attachment B, and has 13 total items.

6.2.2 Rapid Drain-Down

Rapid drain-down is defined as unintentionally lowering the water level to the top of the fuel assemblies within 72 hours after an earthquake. Consistent with the Guidance, the Equipment Selection Personnel (see Section 4.2) identified SSCs that could cause the SFP to drain rapidly by first reviewing the SFP documentation to identify penetrations below about 10 ft above the top of the fuel assemblies.

This review assessed the hydraulic lines and connected equipment of each such penetration for potentially seismically-induced failure modes that could lead to rapid drain down. The list of SSCs that could cause rapid drain-down is presented as Table 4 in Attachment B which includes the specific basis for determining which SSCs could or could not cause rapid drain-down. The rapid drain-down list has a total of 2 items.

6.2.3 SWEL 2

Based on Figure 1-2 and Section 3.0 of the Guidance, SWEL 2 is a broad population of items on Base List 2 including representative items from some of the variations within each of four sample selection attributes (using sample process similar to SWEL 1), plus each item that could potentially cause rapid-drain down of the SFP. Due to the population of items on Base List 2 being much smaller than Base List 1, the sampling attributes are satisfied differently for SWEL 2 than for SWEL 1. The following paragraphs describe how the equipment selected from Base List 2 for inclusion on SWEL 2 are representative with respect to each of the four sample selection attributes. SWEL 2 is presented as Table 5 in Attachment B, and has 9 total items; of these, 9 items are selected from Base List 2, and 0 are from the rapid drain-down list because these items fall into one of the following categories:

- Routinely disassembled, inspected and reassembled every refueling outage and excluded per FAQ 3.17 of Reference 2
- Routinely inspected every refueling outage and excluded per FAQ 3.16 of Reference 2

- Not accessible (in Spent Fuel Pool) and additionally are in the category of piping, not equipment or component.

Variety of Types of Systems

There are 4 systems associated with SFP cooling. The four systems are defined as cooling, purification, structure and overhead items which could potentially damage the pool components. Each of these systems with the exception of structure is well-represented on the SWEL2 list. Structure has been eliminated from the SWEL2 list based on routine inspection, accessibility and category (i.e. item is piping, not equipment or component) as identified in Attachment B.

Major New and Replacement Equipment

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

Variety of Equipment Types

There are three different equipment classes represented on Base List 2: 0, 5, and 16. Each of these equipment classes is represented on SWEL 2.

Variety of Environments

All SFP components are nearby and are thus located in similar environments. Therefore, this sampling attribute is not applicable.

6.3 DEFERRED INACCESSIBLE ITEMS on SWEL

The intent of adding each item on the SWEL is for it to be walked down as part of the NTTF 2.3 Seismic Walkdown program. To be able to perform the seismic walkdowns of these items, it is necessary to have access to them and to be able to view their anchorage. In some cases, it was not feasible to gain access to the equipment or view its anchorage because Indian Point Energy Center, Unit 3 was at power during the majority of the 180-day response period of Enclosure 3 to the 50.54(f) Letter. For these cases, walkdowns of these items have been deferred until the next refueling outage (RFO) in March of 2013. An updated submittal report incorporating these deferred walkdowns will be provided in June of 2013.

Deferred items are summarized in the table below. The reason for deferral is identified as either ACC (indicating that the item is inaccessible while the plant is at power) or CAB (indicating that the item requires opening cabinet/panel doors which was not permitted by plant Operations personnel during the walkdown period, due to being energized or otherwise). A total of 33 items are deferred; of these, 14 are in inaccessible areas, and 20 are cabinets/panels required to be opened. Of the above, one deferred item is both inaccessible and requires to be opened.

SWEL#	Equipment ID	Description	Location	Reason
SWEL1-007	34MCC	Turbine Generator Building Motor Control Center 34	TB EL. 15'-0"	CAB
SWEL1-008	31 MCC	Intake Structure MCC	IS EL. 15'-0"	CAB
SWEL1-009	36BMCC	PAB Motor Control Center 36B	PA EL. 55'-0"	CAB
SWEL1-010	38MCC	Containment Motor Control Center 38	VC EL. 68'-0"	ACC CAB
SWEL1-011	37MCC	Primary Aux Building MCC	PA EL. 55'-0"	CAB
SWEL1-012	39MCC	Control Building Motor Control Center 39	CB EL. 33'-0"	CAB
SWEL1-013	36CMCC	PAB Motor Control Center 36C	CB EL. 15'-0"	CAB
SWEL1-014	SWGR 31	408VAC SWGR 31 (Bus 2A & 5A)	CB EL. 15'-0"	CAB
SWEL1-015	SWGR 32	480VAC SWGR 32 (Bus 3A & 6A)	CB EL. 15'-0"	CAB
SWEL1-016	52/RTB & 52/RTA	RX Trip Switchgear RTA, RTB	CB EL. 33'-0"	CAB
SWEL 1-033	32 Recirc Pump	32 Recirc Pump	VC EL. 68'-0"	ACC
SWEL 1-049	CRF1	Containment Recirc Fan 31	VC EL. 68'-0"	ACC
SWEL1-050	CRF2	Containment Recirc Fan 32	VC EL. 68'-0"	ACC
SWEL1-051	CRF3	Containment Recirc Fan 33	VC EL. 68'-0"	ACC
SWEL1-052	CRF4	Containment Recirc Fan 34	VC EL. 68'-0"	ACC
SWEL1-053	CRF5	Containment Recirc Fan 35	VC EL. 68'-0"	ACC
SWEL1-061	31IB	Single Phase 118V AC Instrument Bus 31 Channel II	CB EL. 53'-0"	CAB
SWEL1-062	32DP	125VDC Distribution Panel 32	CB EL. 53'-0"	CAB
SWEL1-063	32PP	125VDC Power Panel 32	CB EL. 33'-0"	CAB
SWEL1-064	31PP	125VDC Power Panel 31	CB EL. 33'-0"	CAB
SWEL1-071	BATT CHGR 33	Battery Charger	CB EL. 15'-0"	CAB
SWEL1-072	BATT CHRG 34	Battery Charger	CB EL. 33'-0"	CAB
SWEL1-073	31 INVERTER	Static Inverter 31	CB EL. 33'-0"	CAB
SWEL1-074	32 INVERTER	Static Inverter 32	CB EL. 33'-0"	CAB
SWEL1-075	33 INVERTER	Static Inverter 33	CB EL. 33'-0"	CAB
SWEL1-079	RACK#19	Pressurizer Level Transmitter Cabinet	VC EL. 68'-0"	ACC

SWEL#	Equipment ID	Description	Location	Reason
SWEL1-080	RACK#21	Steam Generators Level Transmitter	VC EL. 68'-0"	ACC
SWEL1-082	Rack#4A	SG #31 & #32 Main Stm Flow Transmitter Rack	VC EL. 68'-0"	ACC
SWEL 1-083	RACK#4B	SG#33 & #34 Main Stm Flow Transmitter Rack	VC EL. 68'-0"	ACC
SWEL1-085	TE-122	Excess Letdown Temp Element	VC EL. 68'-0"	ACC
SWEL1-087	PL6	Charging Pumps Speed Control Panel	PA EL. 55'-0"	CAB
SWEL1-101	ACCUM 31	31 SIS Accumulator	VC EL. 68'-0"	ACC
SWEL1-102	ACCUM 32	32 SIS Accumulator	VC EL. 68'-0"	ACC

7.0 SEISMIC WALKDOWNS AND AREA WALK-BYS

The NTTF 2.3 Seismic Walkdown program, conducted in accordance with the Guidance, involves two primary walkdown activities: Seismic Walkdowns and Area Walk-Bys. These activities were conducted at Indian Point Energy Center, Unit 3 by teams of two trained and qualified Seismic Walkdown Engineers (SWEs) (see Section 4.2). Each team included one engineer with at least several years of experience in seismic design and qualification of nuclear power plant SSCs. A total of four individuals forming SWE teams of two or three individuals were used. One of the individuals was a member of the site engineering group. The teams periodically "shuffled" personnel to cross-check consistency between the SWEs and to ensure that lessons learned were being shared. SWE teams were occasionally accompanied into the field by Plant Operations personnel to open cabinets.

The seismic walkdowns and area walk-bys were conducted over the course of 3.5 weeks during October of 2012. Each morning, a pre-job brief with all personnel involved was conducted. This pre-job brief was used to outline the components and areas that would be walked down that day, to ensure consistency between the teams, to reinforce expectations, to identifying potential personnel safety issues specific to that day, and to allow team members to ask questions and share lessons learned in the field. The SWE teams brought cameras, tape measures, flashlights, mirrors and caliper into the field to assist with the seismic walkdowns and area walk-bys.

7.1 SEISMIC WALKDOWNS

Seismic walkdowns were performed in accordance with Section 4.0 of the Guidance for all items on the SWEL (SWEL 1 plus SWEL 2), except for those determined to be inaccessible and deferred (see Section 6.3). To document the results of the walkdown, a Seismic Walkdown Checklist (SWC) with the same content as that included in Appendix C of the Guidance was created for each item. Additionally, where permitted by Plant Operations and plant procedures, photographs were taken of each item and included on the corresponding SWC.

Prior to performance of the walkdowns, documentation packages were developed that contained the pre-filled SWC and other pertinent information including the location drawings, response spectra information, previous IPEEE seismic walkdown documentation, current operability evaluations affecting SWEL items, and anchorage drawings and/or SEWS (SQUG packages) where applicable. These documentation packages were brought with the SWE teams into the plant during the seismic walkdowns.

Walkdown inspections focused on anchorages and seismic spatial interactions, but also included inspections for other potentially adverse seismic conditions. Anchorage, in all cases,

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

Cabinets/panels on the SWEL that could be reasonably opened without presenting safety or operational hazards were opened during the walkdown. This allowed visual observation of internal anchorage to the structure (where present), as well as inspection for "other adverse seismic conditions" related to internal components (if it could be observed without breaking the plane of the equipment opening). Where opening the cabinet/panel exhibited undue safety or operational hazards, it was considered inaccessible and the completion of the walkdown of that item was deferred to a later time (see Section 6.3). Where opening the cabinet/panel required extensive disassembly (e.g., doors or panels were secured by more than latches, thumbscrews, or similar), justification for how the inspection met the program goal without opening the cabinet/panel was included on the SWC and the walkdown of that item is considered complete.

In addition to the general inspection requirements, at least 50% of the SWEL items having anchorage required confirmation that the anchorage configuration was consistent with plant documentation. Of the 110 SWEL items (SWEL 1 plus SWEL 2), 75 were considered to have anchorage (i.e., removing in-line/line-mounted components). Of these 75 anchored components, the walkdowns of 56 included anchorage configuration verification, which is greater than 50%. When anchorage configuration verification was conducted, the specific plant documentation used for comparison to the as-found conditions was referenced on the SWC.

The SWC for each SWEL item where a seismic walkdown has been initiated is included in Attachment C. SWEL items with "ACC" designation in Section 6.3 are not included in Attachment C of the current revision. For the combined SWEL 1 and SWEL 2 list, a total of 96 SWCs are attached, 77 with completion status marked "Y" and 19 with completion status marked "U". The designation "Y" indicates that the walkdown is complete and all required information has been collected. There is no need to revisit the item. The designation "U" indicates that the SWEL walkdown is incomplete and the item must be revisited to obtain additional information.

Thirty three SWCs are fully deferred. SWCs considered and marked incomplete are those where a walkdown was initiated, but whose completion was ultimately deferred because the cabinet/panel could not be opened during the walkdown period. Therefore, the 59 completed SWCs represent the completed walkdowns of each SWEL item accessible during the walkdown period.

7.2 AREA WALK-BYS

Seismic area walk-bys were performed in accordance with Section 4.0 of the Guidance for all plant areas containing items on the SWEL (SWEL 1 plus SWEL 2); except for those SWEL items located in plant areas inaccessible during the walkdown period (see Section 6.3). Area walk-bys were not deferred where components were deferred simply to open cabinets/panels. A separate Area Walk-By Checklist (AWC) with the same content as that included in Appendix C of the Guidance was used to document the results of each area walk-by performed. Photographs were taken of each area (when permitted), and included on the corresponding SWC.

Area walk-bys were conducted once for plant areas containing more than one SWEL item. In cases where the room or area containing a component was very large, the extent of the area encompassed by the area walk-by was limited to a radius of approximately 35 ft around the subject equipment. The extent of the areas included in the area walk-bys is described on the AWC for that area. Because certain areas contained more than one SWEL item, there are fewer total area walk-bys conducted than seismic walkdowns. A total of 43 area walk-bys was necessary to cover all plant areas containing at least one accessible SWEL item.

The AWC for each area walk-by completed is included in Attachment D. A total of 43 AWCs are attached, which represent all of the areas containing a SWEL item that were accessible during the walkdown period. An estimated additional 10 area walk-bys of areas inside containment will be completed together with the deferred walkdowns for those inaccessible items (see Section 6.3).

8.0 LICENSING BASIS EVALUATIONS

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

8.1 CONDITON IDENTIFICATION

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

For conditions that were reasonably judged as insignificant to seismic response, the disposition was included on the SWC or AWC form and the appropriate question was marked "Y", indicating that no associated potentially adverse seismic condition was observed. Unusual or uncertain conditions were reported to site personnel for further resolution through the Corrective Action Program (CAP) (see Section 8.4). A total of 46 seismically insignificant conditions were identified. These conditions were mostly related to housekeeping.

For conditions that were judged as potentially significant to seismic response, the condition was photographed (if permitted), and the appropriate question on the SWC or AWC was marked "N" indicating that a potentially adverse seismic condition was observed. The condition was then immediately reported to site personnel for further resolution and was documented for reporting in Attachment E. A total of 89 potentially adverse seismic conditions were identified. These conditions were related to housekeeping (31), non-conforming anchorage (25), spatial interaction (33), or inadequate line flexibility (0).

8.2 CONDITION RESOLUTION

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

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

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

8.3 LICENSING BASIS EVALUATIONS

Potentially adverse seismic conditions identified as part of the NTTF 2.3 Seismic Walkdown program may be evaluated by comparison to the current licensing basis of the plant as it relates to the seismic adequacy of the equipment in question, as is described in Section 5.0 of the Guidance. If the identified condition is consistent with existing seismic documentation associated with that item, then no further action is required. If the identified condition cannot easily be shown to be consistent with existing seismic documentation, or no seismic documentation exists, then the condition is entered into the CAP.

Of the 89 identified potentially adverse seismic conditions, 20 LBEs were performed. Each LBE performed is documented consistently, and included in Attachment F. The results of these LBEs with respect to the associated potentially adverse seismic conditions are summarized in Attachment E. A total of 8 potentially adverse seismic conditions evaluated using a LBE were dispositioned and required no further action.

8.4 CORRECTIVE ACTION PROGRAM ENTRIES

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

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

A total of 40 Condition Reports (CRs) were generated from the CAP as a result of the NTTF 2.3 Seismic Walkdown program. Of these, 12 CRs were generated to hold License Basis Evaluations.

Several of the CRs addressed similar conditions at a variety of locations or addressed multiple conditions at a single location. For this reason, some CRs addressed both insignificant seismic issues and potentially adverse seismic conditions. Of the 40 CRs noted above, 9 were exclusively for seismically insignificant unusual conditions, 13 contained both seismically insignificant and potentially adverse seismic conditions and 18 CRs were related exclusively to potentially adverse seismic conditions. The CR

numbers, current status, and resolution (where applicable and available) are summarized for these potentially adverse seismic conditions in Attachment E.

8.5 PLANT CHANGES

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

9.0 PEER REVIEW

9.1 PEER REVIEW PROCESS

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

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

At least two members of the peer review team (see Section 4.2) were involved in the peer review of each activity, the team member with the most relevant knowledge and experience taking the lead for that particular activity. A designated overall Peer Review Team Leader provided oversight related to the process and technical aspects of the peer review, paying special attention to the interface between peer review activities involving different members of the peer review team.

9.2 PEER REVIEW RESULTS SUMMARY

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

9.2.1 Seismic Walkdown Equipment List Development

The peer review of SWEL follows Section 3.0 of the EPRI guidance.

Since periodic inspections of Seismic Class I (SC-I) structures are routinely performed to monitor and control their structural degradation, SC-I structures were excluded from the equipment list; for similar reasons, SC-I piping and containment penetrations were also excluded.

Review of the SWEL confirms that various classes of equipment, as identified under the IPEEE Safe Shutdown Equipment List (SSEL) were considered. The classes, ranging from 0 to 21, are summarized in Appendix B of the EPRI guidance. Base List 1 included approximately 1000 components. From these, 101 components, representing a variety of process systems such as Chemical and Volume Control, High/Low

Pressure Recirculation/Injection, Auxiliary Feedwater, Emergency Boration, Residual Heat Removal, and others, were selected. Each component was screened in accordance with the EPRI guidance (screens 1 thru 4) to ensure that it satisfied at least one of the five safety functions:

1) Reactor Reactivity Control

2) Reactor Coolant Pressure Control

3) Reactor Coolant Inventory Control

4) Decay Heat Removal

5) Containment Integrity

In addition, a variety of environmental conditions (high/low temperature, humidity; indoor versus outdoor, boration system), whether the item was a major new or replacement equipment since IPEEE implementation, whether the item was previously identified as a IPEEE vulnerability, and whether the item's failure would constitute a severe and immediate threat to safe operation of the plant (high risk), were considered during the final selection for SWEL-1.

There were thirteen Spent Fuel Pool related components, as shown in Attachment B, Table 3, and two Rapid-Draw-Down related components, as shown in Attachment B, Table 4, selected for Base 2 List. The Rapid-Draw-Down components were excluded from further consideration because Fuel Transfer Tube Blind Flange (IP3) and Fuel Transfer Canal Weir Gate (IP3) are routinely inspected at every refueling. A variety of environments and equipment classes were then considered, and the final SWEL-2, consisting of nine items, was formed.

The comments made by the reviewers of the SWEL were mostly editorial; others were made to request clarification ("Are the 50% anchorage verification items indicated on the SWEL?" The answer was "Yes"). One reviewer asked why the IPEEE vulnerability identified on the Base List 1 was not reflected on the SWEL. The answer was that the item was actually on the SWEL, but the reviewer could not find it because of a missing check mark.

In essence, this Peer Review of the SWEL confirms that preparation of the SWEL was conducted with extreme care, paying particular attention to the sampling process, to assure that a variety of systems, components, environments and risk insights associated with safe operation of the plant, have been implemented.

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

9.2.2 Seismic Walkdowns and Area Walk-Bys

Peer review of the seismic walkdowns and area walk-bys was conducted by two peer reviewers, each of whom is a qualified SWE and has broad knowledge of seismic engineering applied to nuclear power plants. One of the peer reviewers participated in the seismic walkdown program for a different utility, and the other is engaged with the industry team which developed the Guidance (see Section 4.1). The peer reviews were conducted at the Indian Point Energy Center, Unit 3, concurrent with the conduct of walkdowns, at approximately 50% completion. The peer review was performed as follows:

- The peer review team reviewed the walkdown packages (including checklists, photos, drawings, etc.) for SWEL items already completed to ensure that the checklists were completed in accordance with the Guidance. A total of 20 SWC and 5 AWC forms were reviewed, each representing approximately 20% of their respective totals. In the context of the Guidance, the peer review team considered the number of walkdown packages reviewed to be appropriate. The packages reviewed represent a variety of equipment types in various plant areas. Specific SWC forms reviewed are SWEL1-005, SWEL1-006, SWEL1-007, SWEL1-008, SWEL1-013, SWEL1-016, SWEL1-017, SWEL1-018, SWEL1-019, SWEL1-0020, SWEL1-022, SWEL1-030, SWEL1-031, SWEL1-034, SWEL1-035, SWEL1-040, SWEL1-048, SWEL1-054, SWEL1-055, and SWEL1-056. Specific AWC forms reviewed are AWC-001, AWC-003, AWC-007, AWC-008, and AWC-012.
- While reviewing the walkdown packages, the peer reviewers conducted informal interviews of the SWEs and asked clarifying questions to verify that they were conducting walkdowns and area walk-bys in accordance with the Guidance.
- The peer review team held a meeting with the SWE teams to provide feedback on the walkdown and walk-by packages reviewed and the informal interviews, and discuss potential modifications to the documentation packages in the context of the Guidance.
- Each peer reviewer accompanied each SWE team into the field and observed them perform a walkdown of a SWEL component and its associated area walk-by. During these observations, the peer reviewers asked clarifying questions to verify the walkdown and walk-by process being followed was in accordance with the Guidance. The items walked down under the observation of a peer reviewer are SWEL1-048 and SWEL1-035. The associated area walk-by performed under the observation of a peer reviewer is AWC-013.

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

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

Based on completion of the walkdown and walk-by peer review activities described, the peer review team concludes that the SWE teams are familiar with and followed the process for conducting seismic walkdowns and area walk-bys in accordance with the Guidance. The SWE teams adequately demonstrated their ability to identify potentially adverse seismic conditions such as adverse anchorage, adverse spatial interaction, and other adverse conditions related to anchorage, and perform anchorage configuration verifications, where applicable. The SWEs also demonstrated the ability to identify seismically-induced flooding interactions and seismically-induced fire interactions such as the examples described in Section 4.0 of the Guidance. The SWEs demonstrated appropriate use of self-checks and peer checks. They discussed their observations with questioning attitude, and documented the results of the seismic walkdowns and area walk-bys on appropriate checklists.

9.2.3 Licensing Basis Evaluations

A peer review was completed of the licensing basis evaluations provided in Attachment F and the corresponding summary sheet provided in Attachment E. The majority of the licensing basis evaluations provided immediate resolution to operability concerns of the potentially adverse conditions identified by the walkdown personnel. Within these licensing basis evaluations, CRs were generated for maintenance issues to replace missing bolts, nuts or remove items for housekeeping issues, or to provide further, detailed resolution of the potentially adverse seismic condition. The remaining licensing basis evaluations were created to document potentially adverse seismic conditions that were immediately entered into the CAP for detailed evaluation and investigation. The peer review of these LBEs ensured that all the information provided

from the walkdown team to the licensing basis evaluation team member provided enough detail for accurate and timely resolution.

9.2.4 Submittal Report

The peer reviewer was provided with an early draft of this submittal report for peer review. The peer reviewer verified that the submittal report met the objectives and requirements of Enclosure 3 to the 50.54(f) Letter, and documented the NTTF 2.3 Seismic Walkdown program performed in accordance with the Guidance. The peer reviewer provided the results of review activities to the SWE team for consideration. The SWE team satisfactorily addressed all peer review comments in the final version of the submittal report. The signature of the Peer Review Team Leader provides documentation that all elements of the peer review as described in Section 6.0 of the Guidance were completed.

10.0 REFERENCES

1. 10CFR50.54(f) Letter, Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendations 2.1, 2.3 and 9.3 of the Near-Term Task Force Review of Insights from the Fukushima Dai-Ichi Accident, dated March 12, 2012

2. EPRI 1025286, Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic, June 2012

3. Indian Point 3 UFSAR Revision 04, 2011

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

5. Indian Point Three Nuclear Power Plant, Seismic Individual Plant Examination of External Events (IPEEE), IP3-RPT-UNSPEC-02182, September 1997

6. Generic Letter No. 87-03, Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors, Unresolved Safety Issue (USI) A-46

7. Seismic Qualification Utility Group (SQUG) Procedure: Generic Implementation Procedure (GIP) for Seismic Verification of Nuclear Power Plant Equipment, Revision 3A, December 2001

8. EPRI NP-5228-SL, Revision 1, Sesimic Verification of Nuclear Plant Equipment Anchorage

9. IP3-DBD-321, Revision 4, Entergy Nuclear Northeast Indian Point Unit. No. 3 Design Basis Document for Fire Protection System

10. EN-DC-168, Rev. 0, Entergy Fukushima Near-Term Task Force Recommendation 2.3 Seismic Walk-down Procedure

11.0 ATTACHMENTS

ATTACHMENT A – IPEEE VULNERABILTIES TABLE

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS

ATTACHMENT C – SEISMIC WALKDOWN CHECKLISTS (SWCs)

ATTACHMENT D – AREA WALK-BY CHECKLISTS (AWCs)

ATTACHMENT E – POTENTIALLY ADVERSE SEISMIC CONDITIONS

ATTACHMENT F – LICENSING BASIS EVALUATION FORMS

ATTACHMENT G – PEER REVIEW CHECKLIST FOR SWEL

ATTACHMENT H – REVIEW COMMENTS AND RESOLUTIONS FORM

ATTACHMENT I – SEISMIC WALKDOWN ENGINEER TRAINING CERTIFICATES

ATTACHMENT A – IPEEE VULNERABILTIES TABLE

#	IPEEE VULNERABILITY	COMMITMENT	RESOLUTION	CMP	RESOLVED
V-01	Another seismic deficiency has already been addressed by a temporary modification that prevents a seismic event inducing the spurious operation of the EDG room CO2 system and subsequent shutdown of the EDG ventilation system.	A proposed permanent modification to install a QA category I, seismic class I, actuation permissive auxiliary control panel for CO2 discharge into the EDG building is now under evaluation.	Our review established that the modification was installed at IP3 and the newly installed CO2 Fire Suppression Systems 1A, 1B, 1C for Diesel Generator Rooms 31, 32, and 33, respectively, are described under Section 3.29.2, Pages 3-48 through 3-51 of IP3-DBD-321, Rev. 4.	Y	Y

Prepared by: Dragos Nuta Date: 11/20/2012

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
Table 1 Base List 1

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	00 - Other	MS-45-1	MS-45-1	STEAM GEN 31 SAFETY	YES	NO	YES	YES				No		X			
3	00 - Other	MS-45-2	MS-45-2	STEAM GEN 32 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-45-3	MS-45-3	STEAM GEN 33 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-45-4	MS-45-4	STEAM GEN 34 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-46-1	MS-46-1	STEAM GEN 31 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-46-2	MS-46-2	STEAM GEN 32 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-46-3	MS-46-3	STEAM GEN 33 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-46-4	MS-46-4	STEAM GEN 34 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-47-1	MS-47-1	STEAM GEN 31 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-47-2	MS-47-2	STEAM GEN 32 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-47-3	MS-47-3	STEAM GEN 33 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-47-4	MS-47-4	STEAM GEN 34 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-48-1	MS-48-1	STEAM GEN 31 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-48-2	MS-48-2	STEAM GEN 32 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-48-3	MS-48-3	STEAM GEN 33 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-48-4	MS-48-4	STEAM GEN 34 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-49-1	MS-49-1	STEAM GEN 31 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-49-2	MS-49-2	STEAM GEN 32 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-49-3	MS-49-3	STEAM GEN 33 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	MS-49-4	MS-49-4	STEAM GEN 34 SAFETY	YES	NO	YES	YES		I	T/H	No		X			
3	00 - Other	SWP31-STRNR-Auto		31 SWP strainer	YES	NO	YES	NO		I	H	No				X	
3	00 - Other	SWP32-STRNR-Auto		32 SWP strainer	YES	NO	YES	NO		I	H	No				X	
3	00 - Other	SWP33-STRNR-Auto		33 SWP strainer	YES	NO	YES	NO		I	H	No				X	
3	00 - Other	SWP34-STRNR-Auto		34 SWP strainer	YES	NO	YES	NO		I	H	No				X	
3	00 - Other	SWP35-STRNR-Auto		35 SWP strainer	YES	NO	YES	NO		I	H	No				X	
3	00 - Other	SWP36-STRNR-Auto		36 SWP strainer	YES	NO	YES	NO		I	H	No				X	
3	01 - Motor Control Centers	31MCC	31MCC	INTAKE STRUCTURE MOTOR CONTROL CENTER 31	YES	NO	YES	NO		I	H	No				X	
3	01 - Motor Control Centers	32MCC	32MCC	TURBINE-GENERATOR BUILDING MOTOR CONTROL CENTER 32	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	01 - Motor Control Centers	33MCC	33MCC	TURBINE GENERATOR BUILDING MOTOR CONTROL CENTER 33	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	01 - Motor Control Centers	34MCC	34MCC	TURBINE GENERATOR BUILDING MOTOR CONTROL CENTER 34	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	01 - Motor Control Centers	36AMCC	36AMCC	PAB MOTOR CONTROL CENTER 36A	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	01 - Motor Control Centers	36BMCC	36BMCC	PAB MOTOR CONTROL CENTER 36B	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	01 - Motor Control Centers	36CMCC	36CMCC	PAB MOTOR CONTROL CENTER 36C	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	01 - Motor Control Centers	37MCC	37MCC	PRIMARY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	01 - Motor Control Centers	38MCC	38MCC	CONTAINMENT MOTOR CONTROL CENTER 38	YES	NO	YES	YES		I	No	No	X	X	X	X	X

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	01 - Motor Control Centers	39MCC	39MCC	CONTROL BUILDING MOTOR CONTROL CENTER 39	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	02 - Low Voltage Switchgear		SWGR31	480VAC SWGR 31 (BUS 2A AND BUS 5A)	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	02 - Low Voltage Switchgear		SWGR32	480VAC SWGR 32 (BUS 3A & BUS 6A)	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	02 - Low Voltage Switchgear	BUS2A	BUS2A	BUS 2A 480V	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	02 - Low Voltage Switchgear	BUS3A	BUS3A	BUS 3A 480V	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	02 - Low Voltage Switchgear	BUS5A	BUS5A	BUS 5A 480V	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	02 - Low Voltage Switchgear	BUS6A	BUS6A	BUS 6A 480V	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	02 - Low Voltage Switchgear	52/RTB & 52/RTA		RX TRIP SWITCHGEAR RTA, RTA	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	04 - Transformers	31IB-31	31IB-31	MAIN FEED FROM 31 INVERTER OR MCC-34	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	04 - Transformers	32IB-31	32IB-31	MAIN FEED FROM 32 INVERTER OR MCC-33	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	04 - Transformers	33IB-31	33IB-31	MAIN FEED FROM 33 INVERTER OR MCC-39	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	04 - Transformers	34IB-31	34IB-31	MAIN FEED FROM 34 INVERTER (BACKUP-MCC-36B)	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	04 - Transformers	34IB-32	34IB-32	ALTERNATE FEED FROM MCC-36C	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	04 - Transformers		BF8	120/120 VAC SOLATRON TRANSFORMER #32	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		480V BUS 2A PT	480V BUS 2A POTENTIAL TRANSFORMER	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		480V BUS 3A PT	480V BUS 3A POTENTIAL TRANSFORMER	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		480V BUS 5A PT	480V BUS 5A POTENTIAL TRANSFORMER	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		480V BUS 6A PT	480V BUS 6A POTENTIAL TRANSFORMER	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		BC2	480/120 VAC TRANSFORMER #32 (FOR IB-34,34A)	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		BI3	480/120 VAC SOLA XFMR (FOR IB-31,31A)	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		BI4	480/120 VAC SOLA XFMR (FOR IB-32,32A)	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		BJ1	480/120 VAC SOLA XFMR (ALT FOR IB-34,34A)	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers	B1G	B1G	480/120 VAC ELGAR TRANSFORMER (FOR IB-33,33A)	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	04 - Transformers	SST-2	SST-2	STATION SERVICE TRANSFORMER 2	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	04 - Transformers	SST-3	SST-3	STATION SERVICE TRANSFORMER 3	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	04 - Transformers	SST-5	SST-5	STATION SERVICE TRANSFORMER 5	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	04 - Transformers	SST-6	SST-6	STATION SERVICE TRANSFORMER 6	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	04 - Transformers		BF4	CURRENT TRANSFORMER ENCLOSURE D G. 31	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		BF5	CURRENT TRANSFORMER ENCLOSURE D.G. 32	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		BF6	CURRENT TRANSFORMER ENCLOSURE D.G. 33	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		BG1	1KVA SOLATRON TRANSFORMER 120V/120V	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		BG2	1KVA SOLATRON TRANSFORMER 120V/120V	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		BG3	1KVA SOLATRON TRANSFORMER 120V/120V	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		BG4	1KVA SOLATRON TRANSFORMER 120V/120V	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	04 - Transformers		31 BK-UP HTR XFMR	PRZR HTR BK UP GROUP 31 TRANSFORMER	YES	NO	YES	YES		I	No	No		X			
3	04 - Transformers		32 BK-UP HTR XFMR	PRZR HTR BK UP GROUP 32 TRANSFORMER	YES	NO	YES	YES		I	No	No		X			

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	04 - Transformers		33 BK-UP HTR XFMR	PRZR HTR BK UP GROUP 33 TRANSFORMER	YES	NO	YES	YES		I	No	No		X			
3	05 - Horizontal Pumps	31 ABFP	31 ABFP	MOTOR DRIVEN AUX. FEEDWATER PUMP NO. 31	YES	NO	YES	NO		I	No	No				X	
3	05 - Horizontal Pumps	32 ABFP	32 ABFP	TURBINE DRIVEN AUX. FEEDWATER PUMP NO. 32	YES	NO	YES	NO		I	No	No				X	
3	05 - Horizontal Pumps	33 ABFP	33 ABFP	MOTOR DRIVEN AUX. FEEDWATER PUMP NO. 33	YES	NO	YES	NO		I	No	No				X	
3	05 - Horizontal Pumps	31 CCW PUMP	ACAPCC1	CCW PUMP NO 31	YES	NO	YES	YES		I	No	No				X	
3	05 - Horizontal Pumps	32 CCW PUMP	ACAPCC2	CCW PUMP NO. 32	YES	NO	YES	YES		I	No	No				X	
3	05 - Horizontal Pumps	33 CCW PUMP	ACAPCC3	CCW PUMP NO 33	YES	NO	YES	YES		I	No	No				X	
3	05 - Horizontal Pumps	31 BAST TRANSFE	CSAPBA1	BORIC ACID TRANSFER PUMP 31	YES	NO	YES	YES		I	No	B	X				
3	05 - Horizontal Pumps	31 CHARGING PUM	CSAPCH1	NO. 31 CHARGING PUMP	YES	NO	YES	YES		I	No	B	X		X		
3	05 - Horizontal Pumps	31 SI PUMP	31SISPMP	NO. 31 SAFETY INJECTION PUMP	YES	NO	YES	YES		I	No	B	X		X		
3	05 - Horizontal Pumps	32 SI PUMP	32SISPMP	NO. 32 SAFETY INJECTION PUMP	YES	NO	YES	YES		I	No	B	X		X		
3	05 - Horizontal Pumps	33 SI PUMP	33SISPMP	NO. 33 SAFETY INJECTION PUMP	YES	NO	YES	YES		I	No	B	X		X		
3	05 - Horizontal Pumps	32 BAST TRANSFER PUMP	CSAPBA2	BORIC ACID TRANSFER PUMP 32	YES	NO	YES	YES		I	No	B	X				
3	05 - Horizontal Pumps	32 CHARGING PUM	CSAPCH2	NO. 32 CHARGING PUMP	YES	NO	YES	YES		I	No	B	X		X		
3	05 - Horizontal Pumps	33 CHARGING PUM	CSAPCH3	NO. 33 CHARGING PUMP	YES	NO	YES	YES		I	No	B	X		X		
3	05 - Horizontal Pumps	31 CS PUMP	31CSPMP	NO. 31 Containment SPRAY PUMP	YES	NO	YES	YES		I	No	B			X	X	X
3	05 - Horizontal Pumps	32 CS PUMP	32CSPMP	NO. 32 Containment SPRAY PUMP	YES	NO	YES	YES		I	No	B			X	X	X
3	05 - Horizontal Pumps	EDG-31-LO-P	EDG-31-LO-P	DG 31 ENGINE DRIVEN LUBE OIL PUMP	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	05 - Horizontal Pumps	EDG-32-LO-P	EDG-32-LO-P	DG 32 ENGINE DRIVEN LUBE OIL PUMP	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	05 - Horizontal Pumps	EDG-33-LO-P	EDG-33-LO-P	DG 33 ENGINE DRIVEN LUBE OIL PUMP	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	05 - Horizontal Pumps	31 IACC PUMP	0031CLWP	31 I/A CMPR COOLING WTR PMP	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	05 - Horizontal Pumps	32 IACC PUMP	0032CLWP	32 I/A CMPR CL COOLING WTR PMP	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	05 - Horizontal Pumps	31 PWST PUMP	31 PWST PUMP	PRIMARY	YES	NO	YES	NO		I	No	No	X				
3	05 - Horizontal Pumps	32 PWST PUMP	32 PWST PUMP	PRIMARY	YES	NO	YES	NO		I	No	No	X				
3	06 - Vertical Pumps	31 DG FUEL XFER	31 DG FUEL XFER PUMP	F.O. TRANSFER PUMP	YES	NO	YES	NO		O	H	No	X	X	X	X	X
3	06 - Vertical Pumps	32 DG FUEL XFER	32 DG FUEL XFER PUMP	F.O. TRANSFER PUMP	YES	NO	YES	NO		O	H	No	X	X	X	X	X
3	06 - Vertical Pumps	33 DG FUEL XFER	33 DG FUEL XFER PUMP	F.O. TRANSFER PUMP	YES	NO	YES	NO		O	H	No	X	X	X	X	X
3	06 - Vertical Pumps	31 RHR PUMP	ACAPRH1	31 RHR PUMP	YES	NO	YES	NO		I	No	B			X	X	
3	06 - Vertical Pumps	32 RHR PUMP	ACAPRH2	32 RHR PUMP	YES	NO	YES	NO		I	No	B			X	X	
3	06 - Vertical Pumps	31 RECIRC PUMP	31 IR PMP	31 RECIRCULATION PUMP	YES	NO	YES	NO		I	T	No				X	X
3	06 - Vertical Pumps	32 RECIRC PUMP	32 IR PMP	32 RECIRCULATION PUMP	YES	NO	YES	NO		I	T	No				X	X
3	06 - Vertical Pumps	31 SW PUMP	31 SW PUMP	SERVICE WATER PUMP NO. 31	YES	NO	YES	YES		I	H	No				X	X
3	06 - Vertical Pumps	32 SW PUMP	32 SW PUMP	SERVICE WATER PUMP NO. 32	YES	NO	YES	YES		I	H	No				X	X
3	06 - Vertical Pumps	33 SW PUMP	33 SW PUMP	SERVICE WATER PUMP NO. 33	YES	NO	YES	YES		I	H	No				X	X
3	06 - Vertical Pumps	34 SW PUMP	34 SW PUMP	SERVICE WATER PUMP NO. 34	YES	NO	YES	YES		I	H	No				X	X
3	06 - Vertical Pumps	35 SW PUMP	35 SW PUMP	SERVICE WATER PUMP NO. 35	YES	NO	YES	YES		I	H	No				X	X
3	06 - Vertical Pumps	36 SW PUMP	36 SW PUMP	SERVICE WATER PUMP NO. 36	YES	NO	YES	YES		I	H	No				X	X

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm. UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	07 - Pneumatic Oper Valves	BFD-FCV-1121	BFD-FCV-1121	31AFP RECIRC LINE CTRL VALVE	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	BFD-FCV-1123	BFD-FCV-1123	33AFP RECIRC LINE CTRL VALVE	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	BFD-FCV-405A	BFD-FCV-405A	NO.32 AFWP MAN FLOW CTRL TO 31 SG	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	BFD-FCV-405B	BFD-FCV-405B	NO.32 AFWP MAN FLOW CTRL TO 32 SG	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	BFD-FCV-405C	BFD-FCV-405C	NO.32 AFWP MAN FLOW CTRL TO 33 SG	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	BFD-FCV-405D	BFD-FCV-405D	NO.32 AFWP MAN FLOW CTRL TO 34 SG	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	BFD-FCV-406A	BFD-FCV-406A	NO.31 AFWP MAN FLOW CTRL TO 31 SG	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	BFD-FCV-406B	BFD-FCV-406B	NO.31 AFWP MAN FLOW CTRL TO 32 SG	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	BFD-FCV-406C	BFD-FCV-406C	NO.33 AFWP MAN FLOW CTRL TO 33 SG	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	BFD-FCV-406D	BFD-FCV-406D	NO.33 AFWP MAN FLOW CTRL TO 34 SG	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	BFD-PCV-1213	BFD-PCV-1213	PRESSURE REGULATING VALVE FOR DISCHARGE OF 32 ABFP	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	CT-PCV-1187	BFD-PCV-1187	AFWP 31 SUCTION STOP VALVE	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	CT-PCV-1188	BFD-PCV-1188	AFWP 32 SUCTION STOP VALVE	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	CT-PCV-1189	BFD-PCV-1189	AFWP 33 SUCTION STOP VALVE	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	MS-HCV-1118	HCV-1118	32 AFWP TURB GOVRNER	YES	NO	YES	NO		I	H/T	No				X	
3	07 - Pneumatic Oper Valves	MS-PCV-1139	MS-PCV-1139	MAIN STM TO AFW TURBINE PCV	YES	NO	YES	YES		I	H/T	No				X	
3	07 - Pneumatic Oper Valves	MS-PCV-1310A	MS-PCV-1310A	32 ABFP STEAM SUPPLY	YES	NO	YES	YES		I	H/T	No				X	
3	07 - Pneumatic Oper Valves	MS-PCV-1310B	MS-PCV-1310B	32 ABFP STEAM SUPPLY	YES	NO	YES	YES		I	H/T	No				X	
3	07 - Pneumatic Oper Valves	AC-AOV-791	AC-AOV-791	CCW TO EXCESS LETDOWN HTEXCH ISOLATION	YES	NO	YES	NO		I	No	No			X		
3	07 - Pneumatic Oper Valves	AC-AOV-793	AC-AOV-793	CCW FROM EXCESS LETDOWN HTEXCH ISOLATION	YES	NO	YES	NO		I	No	No			X		
3	07 - Pneumatic Oper Valves	AC-AOV-796	AC-AOV-796	CCW FROM EXCESS LETDOWN HTEXCH ISOLATION	YES	NO	YES	NO		I	No	No			X		
3	07 - Pneumatic Oper Valves	AC-AOV-798	AC-AOV-798	CCW TO EXCESS LETDOWN HTEXCH ISOLATION	YES	NO	YES	NO		I	No	No			X		
3	07 - Pneumatic Oper Valves	AC-TCV-130	TCV-130	NON-REGENERATIVE HTEXCH #31 OUTLET FLOW CONTROL	YES	NO	YES	YES		I	No	No			X		
3	07 - Pneumatic Oper Valves	CT-LCV-1158-1	CT-LCV-1158-1	CST TO CONDENSERS LEVEL CONTROL VALVE	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	CT-LCV-1158-2	CT-LCV-1158-2	CST LO LVL CONTROL VALVE	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	CT-PCV-1187	PCV-1187	CITY	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	CT-PCV-1188	PCV-1188	CITY	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	CT-PCV-1189	PCV-1189	CITY	YES	NO	YES	NO		I	No	No				X	
3	07 - Pneumatic Oper Valves	CH-AOV-200A	CH-AOV-200A	LETDOWN ORIFICE ISO VALVE	YES	NO	YES	NO		I	T/H	B			X		
3	07 - Pneumatic Oper Valves	CH-AOV-200B	CH-AOV-200B	LETDOWN ORIFICE ISO VLV	YES	NO	YES	NO		I	T/H	B			X		
3	07 - Pneumatic Oper Valves	CH-AOV-200C	CH-AOV-200C	LETDOWN ORIFICE ISO VLV	YES	NO	YES	NO		I	T/H	B			X		
3	07 - Pneumatic Oper Valves	CH-AOV-201	CH-201	LETDN LINE ISO VLV	YES	NO	YES	NO		I	T/H	B			X		
3	07 - Pneumatic Oper Valves	CH-AOV-202	CH-202	LETDN LINE ISO VLV	YES	NO	YES	NO		I	T/H	B			X		
3	07 - Pneumatic Oper Valves	CH-AOV-204A	CH-AOV-204A	ALT CHG FLOW NO 32 HOT LEG CTRL VLV	YES	NO	YES	NO		I	T/H	B			X		
3	07 - Pneumatic Oper Valves	CH-AOV-204B	CH-AOV-204B	CHG FLOW NO 31 COLD LEG CTRL VLV	YES	NO	YES	NO		I	T/H	B			X		
3	07 - Pneumatic Oper Valves	CH-AOV-212	CH-AOV-212	AUX SPRAY	YES	NO	YES	NO		I	T/H	B		X			
3	07 - Pneumatic Oper Valves	CH-AOV-213A	CH-AOV-213A	EXCESS LETDOWN CTRL VLV	YES	NO	YES	NO		I	T/H	B			X		

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	07 - Pneumatic Oper Valves	CH-AOV-213B	CH-AOV-213B	EXCESS LETDOWN CTRL VLV	YES	NO	YES	NO		I	T/H	B			X		
3	07 - Pneumatic Oper Valves	CH-AOV-215	CH-AOV-215	EXC LETDN LINE DIVERSION CTRL VLV	YES	NO	YES	NO		I	T/H	B			X		
3	07 - Pneumatic Oper Valves	CH-FCV-110A	CH-FCV-110A	BORIC ACID FLOW CTRL	YES	NO	YES	NO		I	No	B	X				
3	07 - Pneumatic Oper Valves	CH-FCV-110B	CH-FCV-110B	BORIC ACID BLNDR OUTLET	YES	NO	YES	NO		I	No	B	X				
3	07 - Pneumatic Oper Valves	CH-FCV-111A	CH-FCV-111A	PRIMARY	YES	NO	YES	NO		I	No	No	X				
3	07 - Pneumatic Oper Valves	CH-FCV-111B	CH-FCV-111B	BLENDER FLOW TO VCT CTRL VALVE	YES	NO	YES	NO		I	No	B	X				
3	07 - Pneumatic Oper Valves	CH-HCV-123	CH-HCV-123	TURBINE DRIVEN AUX. FEEDWATER PUMP NO. 32	YES	NO	YES	NO		I	No	No			X		
3	07 - Pneumatic Oper Valves	CH-HCV-133	CH-HCV-133	RHR HTX OUTLET TO CVCS	YES	NO	YES	NO		I	T/H	B			X		
3	07 - Pneumatic Oper Valves	CH-HCV-142	CH-HCV-142	REGEN HX FLOW CTRL	YES	NO	YES	NO		I	No				X		
3	07 - Pneumatic Oper Valves	CH-LCV-112A	CH-LCV-112A	MAKE-UP TO VCT 3-WAY	YES	NO	YES	NO		I	No	B			X		
3	07 - Pneumatic Oper Valves	CH-LCV-459	CH-LCV-459	LETDOWN CTRL VALVE	YES	NO	YES	NO		I	T/H	B			X		
3	07 - Pneumatic Oper Valves	CH-LCV-460	CH-LCV-460	LETDOWN CTRL VALVE	YES	NO	YES	NO		I	T/H	B			X		
3	07 - Pneumatic Oper Valves	CH-PCV-114	CH-PCV-114	VCT N2 REGULATOR	YES	NO	YES	NO		I	No	No			X		
3	07 - Pneumatic Oper Valves	CH-PCV-135	CH-PCV-135	LETDOWN BP CONTROL	YES	NO	YES	NO		I	No	B			X		
3	07 - Pneumatic Oper Valves	PCV-113A	CH-PCV-113A	VCT H2 REGULATOR	YES	NO	YES	NO		I	No	No			X		
3	07 - Pneumatic Oper Valves	DF-LCV-1207A	DF-LCV-1207A	F.O. DAY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	DF-LCV-1207B	DF-LCV-1207B	F.O. DAY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	DF-LCV-1208A	DF-LCV-1208A	F.O. DAY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	DF-LCV-1208B	DF-LCV-1208B	F.O. DAY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	DF-LCV-1209A	DF-LCV-1209A	F.O. DAY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	DF-LCV-1209B	DF-LCV-1209B	F.O. DAY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	IA-PCV-1142	PCV-1142	INSTRUMENT AIR EMERGENCY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	IA-PCV-1228	IA-PCV-1228	INSTRUMENT AIR CONTAINMENT ISOLATION	YES	NO	YES	NO		I	No	No					X
3	07 - Pneumatic Oper Valves	MS-1-31	MS-1-31	SG #31 MAIN STM ISOLATION AIR-OP STOP CHECK	YES	NO	YES	NO		I	H/T	No		X			
3	07 - Pneumatic Oper Valves	MS-1-32	MS-1-32	SG #32 MAIN STM ISOLATION AIR-OP STOP CHECK	YES	NO	YES	NO		I	H/T	No		X			
3	07 - Pneumatic Oper Valves	MS-1-33	MS-1-33	SG #33 MAIN STM ISOLATION AIR-OP STOP CHECK	YES	NO	YES	NO		I	H/T	No		X			
3	07 - Pneumatic Oper Valves	MS-1-34	MS-1-34	SG #34 MAIN STM ISOLATION AIR-OP STOP CHECK	YES	NO	YES	NO		I	H/T	No		X			
3	07 - Pneumatic Oper Valves	MS-PCV-1134	PCV-1134	ATM STM RELIEF VALVE 31 SG	YES	NO	YES	NO		I	H/T	No		X		X	
3	07 - Pneumatic Oper Valves	MS-PCV-1135	PCV-1135	ATM STM RELIEF VALVE 32 SG	YES	NO	YES	NO		I	H/T	No		X		X	
3	07 - Pneumatic Oper Valves	MS-PCV-1136	PCV-1136	ATM STM RELIEF VALVE 33 SG	YES	NO	YES	NO		I	H/T	No		X		X	
3	07 - Pneumatic Oper Valves	MS-PCV-1137	PCV-1137	ATM STM RELIEF VALVE 34 SG	YES	NO	YES	NO		I	H/T	No		X		X	
3	07 - Pneumatic Oper Valves	IA-PCV-1273	PCV-1273	N2 BACKUP SUPPLY	YES	NO	YES	REMOVED		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	IA-PCV-1274	PCV-1274	N2 BACKUP SUPPLY	YES	NO	YES	REMOVED		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	IA-PCV-1275	PCV-1275	N2 BACKUP SUPPLY	YES	NO	YES	REMOVED		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	NNE-PRV-6300	PRV-6300	N2 TO PORV 456 REG VALVE	YES	NO	YES	NO		I	H/T	No		X		X	
3	07 - Pneumatic Oper Valves	NNE-PRV-6301	PRV-6301	N2 TO PORV 455C REG VALVE	YES	NO	YES	NO		I	H/T	No		X		X	
3	07 - Pneumatic Oper Valves	PCV-1043	PCV-1043	N2 SUPPLY	YES	NO	YES	NO		I	No	No	X	X	X	X	X

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm. UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	07 - Pneumatic Oper Valves	PCV-1044	PCV-1044	N2 SUPPLY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	PCV-1276	PCV-1276	IA-PCV-1276 OUTLET CHECK VALVE	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	RC-PCV-455A	PCV-455A	PZR SPRAY	YES	NO	YES	YES		I	H/T	B		X			
3	07 - Pneumatic Oper Valves	RC-PCV-455B	PCV-455B	PZR SPRAY	YES	NO	YES	NO		I	H/T	B		X			
3	07 - Pneumatic Oper Valves	RC-PCV-455C	PCV-455C	PRESSURIZER PORV	YES	NO	YES	YES		I	H/T	B		X		X	
3	07 - Pneumatic Oper Valves	RC-PCV-456	PCV-456	PRESSURIZER PORV	YES	NO	YES	YES		I	H/T	B		X		X	
3	07 - Pneumatic Oper Valves		PCV-1297	32 A/C UNIT CONDENSER	YES	NO	YES	REMOVED		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	FCV-1176	FCV-1176	D.G COOLER RETURN HEADER FCV	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	FCV-1176A	FCV-1176A	D.G. COOLER RETURN HEADER FCV	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	SWN-PCV-1296	PCV-1296	31 A/C UNIT CONDENSER	YES	NO	YES	REMOVED		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	SWN-TCV-1103	SWN-TCV-1103	CFCU OUTLET CONTROL VLV	YES	NO	YES	YES		I	No	No					X
3	07 - Pneumatic Oper Valves	SWN-TCV-1104	SWN-TCV-1104	SWN-TCV-1105 BY	YES	NO	YES	NO		I	No	No					X
3	07 - Pneumatic Oper Valves	SWN-TCV-1105	SWN-TCV-1105	CONTAINMENT FCU TEMPERATURE CONTROL VALVE	YES	NO	YES	NO		I	No	No					X
3	07 - Pneumatic Oper Valves	SWN-TCV-1113	SWN-TCV-1113	INST AIR CC HX SW OUTLET TCV	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	07 - Pneumatic Oper Valves	TC-1113	SWN-TC-1113	INST AIR CC HX SW OUTLET TC	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	08 - MOVs and SOVs	BFD-SOV-1321	SOV-1321	BFD-FCV-1121 SOLENOID VALVE	YES	NO	YES	NO		I	No	No		X		X	
3	08 - MOVs and SOVs	BFD-SOV-1323	SOV-1323	BFD-FCV-1123 SOLENOID VALVE	YES	NO	YES	NO		I	No	No		X		X	
3	08 - MOVs and SOVs	AC-FCV-625	AC-FCV-625	RC PUMPS THERMAL BARRIER OUTLET FLOW CONTROL	YES	NO	YES	NO		I	No	No		X			
3	08 - MOVs and SOVs	AC-MOV-784	AC-784	REACTOR COOLANT PUMP CCW RETURN LINE FIRST CONTAINMENT ISOLATION	YES	NO	YES	NO		I	No	No					X
3	08 - MOVs and SOVs	AC-MOV-786	AC-786	REACTOR COOLANT PUMP CCW RETURN LINE SECOND CONTAINMENT ISOLATION	YES	NO	YES	NO		I	No	No					X
3	08 - MOVs and SOVs	AC-MOV-789	AC-789	CC ISOLATION FROM RCP THERMAL BARRIER	YES	NO	YES	NO		I	No	No					X
3	08 - MOVs and SOVs	AC-MOV-797	AC-797	CCW TO RC PUMP ISOLATION	YES	NO	YES	NO		I	No	No					X
3	08 - MOVs and SOVs	AC-MOV-822A	AC-822A	RHR HTEXCH #31 CC DISCHARGE ISOLATION	YES	NO	YES	NO		I	No	No				X	
3	08 - MOVs and SOVs	AC-MOV-822B	AC-822B	RHR HTEXCH #32 CC DISCHARGE ISOLATION	YES	NO	YES	NO		I	No	No				X	
3	08 - MOVs and SOVs	AC-SOV-791	SOV-791-1	AC-791 SOLENOID VALVE	YES	NO	YES	NO		I	No	No			X		
3	08 - MOVs and SOVs	AC-SOV-793	SOV-793-1	AC-793 SOLENOID VALVE	YES	NO	YES	NO		I	No	No			X		
3	08 - MOVs and SOVs	AC-SOV-796	SOV-796-1	AC-796 SOLENOID VALVE	YES	NO	YES	NO		I	No	No			X		
3	08 - MOVs and SOVs	AC-SOV-798	SOV-798-1	AC-798 SOLENOID VALVE	YES	NO	YES	NO		I	No	No			X		
3	08 - MOVs and SOVs	CT-SOV-1258-1	CT-SOV-1258-1	COND STORAGE TANK TO CONDENSERS CT-LCV-1158-1 SOLENOID	YES	NO	YES	YES		I	No	No		X		X	
3	08 - MOVs and SOVs	CT-SOV-1258-2	CT-SOV-1258-2	COND STORAGE TANK TO CONDENSERS CT-LCV-1158-2 SOLENOID	YES	NO	YES	YES		I	No	No		X		X	
3	08 - MOVs and SOVs	CT-SOV-1287	CT-SOV-1287	PCV-1187 SOLENOID VALVE	YES	NO	YES	NO		I	No	No		X		X	
3	08 - MOVs and SOVs	CT-SOV-1288	CT-SOV-1288	PCV-1188 SOLENOID VALVE	YES	NO	YES	NO		I	No	No		X		X	
3	08 - MOVs and SOVs	CT-SOV-1289	CT-SOV-1289	PCV-1189 SOLENOID VALVE	YES	NO	YES	NO		I	No	No		X		X	
3	08 - MOVs and SOVs	CH-FCV-SOV-111B	SOV-111B-1	CH-FCV-111B SOLENOID VALVE	YES	NO	YES	NO		I	No	No	X		X		
3	08 - MOVs and SOVs	CH-HCV-133 (AO)	SOV-133-1	CH-HCV-133 SOLENOID VALVE	YES	NO	YES	NO		I	No	No	X	X	X	X	X

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	08 - MOVs and SOVs	CH-LCV-112B	CH-LCV-112B	RWST TO CHARGING PUMP SUCTION VALVE	YES	NO	YES	NO		I	No	B	X		X		
3	08 - MOVs and SOVs	CH-LCV-112C	CH-LCV-112C	VCT OUTLET ISO VLV	YES	NO	YES	NO		I	No	B	X		X		
3	08 - MOVs and SOVs	CH-LCV-SOV-112A	SOV-112A-1	CH-LCV-112A SOLENOID VALVE	YES	NO	YES	NO		I	No	No	X		X		
3	08 - MOVs and SOVs	CH-LCV-SOV-459	SOV-459-1	LETDOWN STOP VALVE	YES	NO	YES	NO		I	No	B			X		
3	08 - MOVs and SOVs	CH-LCV-SOV-460	SOV-460-1	CH-LCV-460 SOLENOID VALVE	YES	NO	YES	NO		I	No	No			X		
3	08 - MOVs and SOVs	CH-MOV-205	CH-MOV-205	CHARGING FLOW TO RCS ISO VLV	YES	NO	YES	NO		I	No	B	X		X		
3	08 - MOVs and SOVs	CH-MOV-222	CH-MOV-222	RCP SEAL WTR RETURN ISO VLV	YES	NO	YES	NO		I	No	B			X		
3	08 - MOVs and SOVs	CH-MOV-226	CH-MOV-226	CHARGING LINE CTMT ISO VLV	YES	NO	YES	NO		I	No	B			X		X
3	08 - MOVs and SOVs	CH-MOV-250A	CH-MOV-250A	31 RCP SEAL INJ CTMT ISO VLV	YES	NO	YES	NO		I	No	B			X		X
3	08 - MOVs and SOVs	CH-MOV-250B	CH-MOV-250B	32 RCP SEAL INJ CTMT ISO VLV	YES	NO	YES	NO		I	No	B			X		X
3	08 - MOVs and SOVs	CH-MOV-250C	CH-MOV-250C	33 RCP SEAL INJ CTMT ISO VLV	YES	NO	YES	NO		I	No	B			X		X
3	08 - MOVs and SOVs	CH-MOV-250D	CH-MOV-250D	34 RCP SEAL INJ CTMT ISO VLV	YES	NO	YES	NO		I	No	B			X		X
3	08 - MOVs and SOVs	CH-MOV-333	CH-MOV-333	BORIC ACID FEED TO CHG PUMPS VALVE	YES	NO	YES	NO		I	No	B	X				
3	08 - MOVs and SOVs	CH-MOV-441	CH-MOV-441	31 RCP SEAL INJ CTMT ISO VLV	YES	NO	YES	NO		I	No	B			X		X
3	08 - MOVs and SOVs	CH-MOV-442	CH-MOV-442	32 RCP SEAL INJ CTMT ISO VLV	YES	NO	YES	NO		I	No	B			X		X
3	08 - MOVs and SOVs	CH-MOV-443	CH-MOV-443	33 RCP SEAL INJ CTMT ISO VLV	YES	NO	YES	NO		I	No	B			X		X
3	08 - MOVs and SOVs	CH-MOV-444	CH-MOV-444	34 RCP SEAL INJ CTMT ISO VLV	YES	NO	YES	NO		I	No	B			X		X
3	08 - MOVs and SOVs	CH-SOV-110A	SOV-110A-1	CH-FCV-110A SOLENOID VALVE	YES	NO	YES	YES		I	No	No	X		X		
3	08 - MOVs and SOVs	CH-SOV-110B	SOV-110B-1	CH-FCV-110B SOLENOID VALVE	YES	NO	YES	YES		I	No	No	X		X		
3	08 - MOVs and SOVs	CH-SOV-111A	SOV-111A-1	CH-FCV-111A SOLENOID VALVE	YES	NO	YES	YES		I	No	No	X		X		
3	08 - MOVs and SOVs	CH-SOV-200A	SOV-200A-1	CH-AOV-200A SOLENOID VALVE	YES	NO	YES	NO		I	H/T	No			X		
3	08 - MOVs and SOVs	CH-SOV-200B	SOV-200B-1	CH-AOV-200B SOLENOID VALVE	YES	NO	YES	YES		I	H/T	No			X		
3	08 - MOVs and SOVs	CH-SOV-200C	SOV-200C-1	CH-AOV-200C SOLENOID VALVE	YES	NO	YES	YES		I	H/T	No			X		
3	08 - MOVs and SOVs	CH-SOV-201	SOV-201-1	CH-201 SOLENOID VALVE	YES	NO	YES	YES		I	H/T	No			X		X
3	08 - MOVs and SOVs	CH-SOV-202	SOV-202-1	CH-202 SOLENOID VALVE	YES	NO	YES	YES		I	H/T	No			X		X
3	08 - MOVs and SOVs	CH-SOV-204A	SOV-204A-1	CH-AOV-204A SOLENOID VALVE	YES	NO	YES	NO		I	H/T	No	X		X		
3	08 - MOVs and SOVs	CH-SOV-204B	SOV-204B-1	CH-AOV-204B SOLENOID VALVE	YES	NO	YES	YES		I	H/T	No	X		X		
3	08 - MOVs and SOVs	CH-SOV-212	SOV-212-1	CH-AOV-212 SOLENOID VALVE	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	CH-SOV-213A	SOV-213A-1	CH-213A SOLENOID VALVE	YES	NO	YES	NO		I	H/T	No			X		
3	08 - MOVs and SOVs	CH-SOV-213B	SOV-213B-1	CH-213B SOLENOID VALVE	YES	NO	YES	NO		I	H/T	No			X		
3	08 - MOVs and SOVs	CH-SOV-215	SOV-215-1	CH-AOV-215 SOLENOID VALVE	YES	NO	YES	NO		I	H/T	No			X		
3	08 - MOVs and SOVs	CH-SOV-310	SOV-310-1	CH-310 SOLENOID VALVE	YES	NO	YES	NO		I	No	No	X				
3	08 - MOVs and SOVs	CH-TCV-SOV-149	SOV-149-1	CH-TCV-149 SOLENOID VALVE	YES	NO	YES	NO		I	No	No			X		
3	08 - MOVs and SOVs	SOV-1274	SOV-1274	SOLENOID OPERATED VALVE FOR FCV-1176 & FCV-1176A	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	08 - MOVs and SOVs	SOV-1275	SOV-1275	SOLENOID OPERATED VALVE FOR FCV-1176 & FCV-1176A	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	08 - MOVs and SOVs	SWN-SOV-1276	SWN-SOV-1276	SOLENOID OPERATOR FOR FCV-1176	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	08 - MOVs and SOVs	SWN-SOV-1276A	SWN-SOV-1276A	SOLENOID OPERATOR FOR FCV-1176A	YES	NO	YES	NO		I	No	No	X	X	X	X	X

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	08 - MOVs and SOVs	IA-SOV-1198	IA-SOV-1198	COMPRESSOR 31 UNLOADER SOLENOID OPERATED VALVE	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	08 - MOVs and SOVs	IA-SOV-1199	IA-SOV-1199	COMPRESSOR 32 UNLOADER SOLENOID OPERATED VALVE	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	08 - MOVs and SOVs	IA-SOV-1428	SOV-1428	SOLENOID VALVE FOR PCV-1228	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	08 - MOVs and SOVs	MS-SOV-1230	MS-SOV-1230	SG#31 MAIN STM ISOLATION VALVE 31 SUPPLY	YES	NO	YES	YES		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1231	MS-SOV-1231	SG#31 MAIN STM ISOLATION VALVE 31 SUPPLY	YES	NO	YES	YES		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1232	MS-SOV-1232	SG#31 MAIN STM ISOLATION VALVE 31 EXHAUST SOLENOID	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1233	MS-SOV-1233	SG#31 MAIN STM ISOLATION VALVE 31 EXHAUST SOLENOID	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1234	MS-SOV-1234	SG#32 MAIN STM ISOLATION VALVE 32 SUPPLY	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1235	MS-SOV-1235	SG#32 MAIN STM ISOLATION VALVE 32 SUPPLY	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1236	MS-SOV-1236	SG#32 MAIN STM ISOLATION VALVE 32 EXHAUST SOLENOID	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1237	MS-SOV-1237	SG#32 MAIN STM ISOLATION VALVE 32 EXHAUST SOLENOID	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1238	MS-SOV-1238	SG#33 MAIN STM ISOLATION VALVE 33 SUPPLY	YES	NO	YES	YES		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1239	MS-SOV-1239	SG#33 MAIN STM ISOLATION VALVE 33 SUPPLY	YES	NO	YES	YES		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1240	MS-SOV-1240	SG#33 MAIN STM ISOLATION VALVE 33 EXHAUST SOLENOID	YES	NO	YES	YES		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1241	MS-SOV-1241	SG#33 MAIN STM ISOLATION VALVE 33 EXHAUST SOLENOID	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1242	MS-SOV-1242	SG#34 MAIN STM ISOLATION VALVE 34 SUPPLY	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1243	MS-SOV-1243	SG#34 MAIN STM ISOLATION VALVE 34 SUPPLY	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1244	MS-SOV-1244	SG#34 MAIN STM ISOLATION VALVE 34 EXHAUST SOLENOID	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	MS-SOV-1245	MS-SOV-1245	SG#34 MAIN STM ISOLATION VALVE 34 EXHAUST SOLENOID	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	CC-SOV-1177	SOV-1177	AFTERCOOLER 31 INLET SOLENOID OPERATED VALVE	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	08 - MOVs and SOVs	CC-SOV-1178	SOV-1178	AFTERCOOLER 32 INLET SOLENOID OPERATED VALVE	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	08 - MOVs and SOVs	MS-SOV-1139-1	SOV-1139-1	PCV-1139 SOLENOID VALVE	YES	NO	YES	NO		I	H/T	No		X		X	
3	08 - MOVs and SOVs	MS-SOV-1310	SOV-1310	PCV-1310A SOLENOID VALVE	YES	NO	YES	YES		I	No	No		X		X	
3	08 - MOVs and SOVs	MS-SOV-1311	SOV-1311	PCV-1310B SOLENOID VALVE	YES	NO	YES	YES		I	No	No		X		X	
3	08 - MOVs and SOVs	RC-MOV-535	RC-MOV-535	MOTOR OPERATED ISOLATION TO PCV-455C	YES	NO	YES	YES		I	H/T	No		X		X	
3	08 - MOVs and SOVs	RC-MOV-536	RC-MOV-536	MOTOR OPERATED ISOLATION TO PCV-456	YES	NO	YES	YES		I	H/T	No		X		X	
3	08 - MOVs and SOVs	RC-PCV-455A (AO	SOV-455A-1	PCV-455A SOLENOID VALVE	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	RC-PCV-455B (AO	SOV-455B-1	PCV-455B SOLENOID VALVE	YES	NO	YES	NO		I	H/T	No		X			
3	08 - MOVs and SOVs	RC-SOV-455C	SOV-455C-1	PCV-455C SOLENOID VALVE	YES	NO	YES	YES		I	H/T	No		X		X	
3	08 - MOVs and SOVs	RC-SOV-456	SOV-456-1	PCV-456 SOLENOID VALVE	YES	NO	YES	YES		I	H/T	No		X		X	
3	08 - MOVs and SOVs	AC-MOV-1870	AC-MOV-1870	RHR PUMP MINI FLOW TEST LINE VALVE	YES	NO	YES	NO		I	No	No		X		X	
3	08 - MOVs and SOVs	AC-MOV-730	AC-MOV-730	RHR LOOP INLET STOP	YES	NO	YES	YES		I	H/T	B				X	
3	08 - MOVs and SOVs	AC-MOV-731	AC-MOV-731	RHR LOOP SUCTION ISOLATION	YES	NO	YES	NO		I	H/T	B				X	
3	08 - MOVs and SOVs	AC-MOV-743	AC-MOV-743	RHR PUMP MINI FLOW TEST LINE	YES	NO	YES	YES		I	No	No				X	
3	08 - MOVs and SOVs	AC-MOV-744	AC-MOV-744	RHR PUMPS DISCHARGE HEADER STOP	YES	NO	YES	NO		I	No	No		X		X	
3	08 - MOVs and SOVs	AC-MOV-745A	AC-MOV-745A	RHR HEAT EXCHANGER 32 INLET ISOLATION VLV	YES	NO	YES	NO		I	H/T	B		X		X	
3	08 - MOVs and SOVs	AC-MOV-745B	AC-MOV-745B	RHR HEAT EXCHANGER 32 INLET ISOLATION VLV	YES	NO	YES	NO		I	H/T	B		X		X	

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	08 - MOVs and SOVs	SI-MOV-746	SI-MOV-746	#32 RHR HX OUTLT ISO STOP VLV	YES	NO	YES	NO		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SI-MOV-747	SI-MOV-747	#31 RHR HX OUTLT ISO STOP VLV	YES	NO	YES	NO		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SI-HCV-638	SI-HCV-638	RHR HTX 31 DISCH. THROTTLE VLV.	YES	NO	YES	NO		I	H/T	B		X		X	
3	08 - MOVs and SOVs	SI-HCV-640	SI-HCV-640	RHR HTX 32 DISCH. THROTTLE VLV	YES	NO	YES	NO		I	H/T	B		X		X	
3	08 - MOVs and SOVs	SI-MOV-1802A	SI-MOV-1802A	SIS RECIRC PUMP DISCHARGE VALVE	YES	NO	YES	NO		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SI-MOV-1802B	SI-MOV-1802B	SIS RECIRC PUMP DISCHARGE VALVE	YES	NO	YES	NO		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SI-MOV-1810	SI-MOV-1810	MOV RWST TO SI PUMP ISO VALVE	YES	NO	YES	NO		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SI-MOV-1869A	SI-MOV-1869A	RHR HX 32 TO RHR MINI FLOW VALVES	YES	NO	YES	NO		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SI-MOV-1869B	SI-MOV-1869B	RHR HX 31 TO RHR MINI FLOW VALVES	YES	NO	YES	NO		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SI-MOV-882	SI-MOV-882	RWST SUPPLY	YES	NO	YES	NO		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SI-MOV-885A	SI-MOV-885A	RHR PUMPS SUCTION FROM CONTAINMENT SUMP	YES	NO	YES	NO		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SI-MOV-885B	SI-MOV-885B	RHR PUMPS SUCTION FROM CONTAINMENT SUMP	YES	NO	YES	NO		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SI-MOV-888A	SI-888A	HIGH HEAD INJECTION RECIRC STOP	YES	NO	YES	NO		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SI-MOV-888B	SI-888B	HIGH HEAD INJECTION RECIRC STOP	YES	NO	YES	NO		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SI-MOV-889A	SI-MOV-889A	CTMT SPRAY	YES	NO	YES	NO		I	H/T	B					X
3	08 - MOVs and SOVs	SI-MOV-889B	SI-MOV-889B	CTMT SPRAY	YES	NO	YES	NO		I	H/T	B					X
3	08 - MOVs and SOVs	SI-MOV-894A	SI-MOV-894A	NO. 31 ACCUM ISOLATION VALVE	YES	NO	YES	NO		I	H/T	B			X		
3	08 - MOVs and SOVs	SI-MOV-894B	SI-MOV-894B	NO. 32 ACCUM ISOLATION VALVE	YES	NO	YES	NO		I	H/T	B			X		
3	08 - MOVs and SOVs	SI-MOV-894C	SI-MOV-894C	NO 33 ACCUM ISOLATION VALVE	YES	NO	YES	NO		I	H/T	B			X		
3	08 - MOVs and SOVs	SI-MOV-894D	SI-MOV-894D	NO. 34 ACCUM ISOLATION VALVE	YES	NO	YES	NO		I	H/T	B			X		
3	08 - MOVs and SOVs	SI-MOV-899A	SI-MOV-899A	RHR HTX 32 OUTLET STOP VLV	YES	NO	YES	YES		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SI-MOV-899B	SI-MOV-899B	RHR HTX 31 OUTLET STOP VLV	YES	NO	YES	YES		I	H/T	B			X	X	
3	08 - MOVs and SOVs	SOV-1170	SOV-1170	SWN-TCV-1104 SOLENOID VALVE	YES	NO	YES	NO		I	No	No					X
3	08 - MOVs and SOVs	SOV-1171	SOV-1171	SWN-TCV-1105 SOLENOID VALVE	YES	NO	YES	YES		I	No	No					X
3	09 - Fans	FAN-312-AB (L)	FAN-312-AB (L)	LOUVER FOR FAN-312-AB	YES	NO	YES	NO		I	H/T	No		X		X	
3	09 - Fans	WALL FAN-313-AB	F-313	AFPB EXH FAN/DAMPER	YES	NO	YES	YES		I	H/T	No		X		X	
3	09 - Fans	CRF1	CRF1	CONTAINMENT RECIRC FAN 31	YES	NO	YES	NO		I	H/T	No					X
3	09 - Fans	CRF2	CRF2	CONTAINMENT RECIRC FAN 32	YES	NO	YES	NO		I	H/T	No					X
3	09 - Fans	CRF3	CRF3	CONTAINMENT RECIRC FAN 33	YES	NO	YES	NO		I	H/T	No					X
3	09 - Fans	CRF4	CRF4	CONTAINMENT RECIRC FAN 34	YES	NO	YES	NO		I	H/T	No					X
3	09 - Fans	CRF5	CRF5	CONTAINMENT RECIRC FAN 35	YES	NO	YES	NO		I	H/T	No					X
3	09 - Fans	DG EXHAUST FAN 314	DG EXHAUST FAN 314	DGB EXHAUST FAN 314	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	09 - Fans	DG EXHAUST FAN 315	DG EXHAUST FAN 315	DGB EXHAUST FAN 315	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	09 - Fans	DG EXHAUST FAN 316	DG EXHAUST FAN 316	DGB EXHAUST FAN 316	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	09 - Fans	DG EXHAUST FAN 317	DG EXHAUST FAN 317	DGB EXHAUST FAN 317	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	09 - Fans	DG EXHAUST FAN 318	DG EXHAUST FAN 318	DGB EXHAUST FAN 318	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	09 - Fans	DG EXHAUST FAN 319	DG EXHAUST FAN 319	DGB EXHAUST FAN 319	YES	NO	YES	NO		I	No	No	X	X	X	X	X

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	09 - Fans	33 ELEC TUNL EX	0033ETEF	EL TNL EXHAUST FAN 33 (UPPER)	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	09 - Fans	34 ELEC TUNL EX	0034ETEF	EL TNL EXHAUST FAN 34 (UPPER)	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	09 - Fans	PAB SUPPLY FAN	PABSF	PRIMARY	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	09 - Fans	VC PURGE/PAB EX 31	32 PABEF	PRIMARY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	09 - Fans	VC PURGE/PAB EX 32	31 PABEF	PRIMARY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	10 - Air Handlers	FAN-311-AB (L)	FAN-311-AB (L)	LOUVER FOR FAN-311-AB	YES	NO	YES	NO		I	H/T	No		X		X	
3	10 - Air Handlers	WALL FAN-313-AB	F-313	AFPB EXH FAN/DAMPER	YES	NO	YES	YES		I	H/T	No		X		X	
3	10 - Air Handlers	WALL FAN-313-AB	F-313	AFPB EXH FAN/DAMPER	YES	NO	YES	YES		I	H/T	No		X		X	
3	10 - Air Handlers	L/316A (AO)	0031OAL A	DG 31 ROOM VENTILATION INLET LOUVER L-316	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	10 - Air Handlers	L/316B (AO)	0031OAL B	DG 31 ROOM VENTILATION INLET LOUVER L-316	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	10 - Air Handlers	L/316C (AO)	0031OAL C	DG 31 ROOM VENTILATION INLET LOUVER L-316	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	10 - Air Handlers	L/317A (AO)	0032OAL A	DG 32 ROOM VENTILATION INLET LOUVER L-317	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	10 - Air Handlers	L/317B (AO)	0032OAL B	DG 32 ROOM VENTILATION INLET LOUVER L-317	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	10 - Air Handlers	L/317C (AO)	0032OAL C	DG 32 ROOM VENTILATION INLET LOUVER L-317	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	10 - Air Handlers	L/318A (AO)	0033OAL A	OUTSIDE AIR LOUVER 33 EDG	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	10 - Air Handlers	L/318B (AO)	0033OAL B	OUTSIDE AIR LOUVER 33 EDG	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	10 - Air Handlers	L/318C (AO)	0033OAL C	OUTSIDE AIR LOUVER 33 EDG	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	10 - Air Handlers	31 ELEC TUNL EX	0031ETEF	EL TNL EXHAUST FAN 31 (LOWER)	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	10 - Air Handlers	32 ELEC TUNL EX	0032ETEF	EL TNL EXHAUST FAN 32 (LOWER)	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	10 - Air Handlers	CCR A.C. UNIT 31	ACU31	CONTROL ROOM A/C UNIT 31	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	10 - Air Handlers	CCR A.C. UNIT 32	ACU32	CONTROL ROOM A/C UNIT 32	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	12 - Air Compressors	31 IA COMPRESSO	31 IA COMPRESSOR	INSTRUMENT AIR COMPRESSOR #31	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	12 - Air Compressors	32 IA COMPRESSO	32 IA COMPRESSOR	INSTRUMENT AIR COMPRESSOR #32	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	12 - Air Compressors	EDG-31-COMP	31 EDG COMPRESSOR	31 EDG AIR COMPRESSOR	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	12 - Air Compressors	EDG-32-COMP	32 EDG COMPRESSOR	32 EDG AIR COMPRESSOR	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	12 - Air Compressors	EDG-33-COMP	33 EDG COMPRESSOR	33 EDG AIR COMPRESSOR	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	13 – motor Generators	31MGS-coup	31 MG Set	31 Rod Control Motor Generator Set	YES	NO	YES	NO		I	No	No	X				
3	13 – motor Generators	32MGS-coup	32 MG Set	32 Rod Control Motor Generator Set	YES	NO	YES	NO		I	No	No	X				
3	14 - Distrib Pnls and Xfer Sws	31IB	31IB	SINGLE PHASE 118V AC INSTRUMENT BUS 31 CHANNEL II	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	14 - Distrib Pnls and Xfer Sws	32IB	32IB	SINGLE PHASE 118V AC INSTRUMENT BUS 32 CHANNEL I	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	14 - Distrib Pnls and Xfer Sws	33IB	33IB	SINGLE PHASE 118V AC INSTRUMENT BUS 33 CHANNEL IV	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	14 - Distrib Pnls and Xfer Sws	34IB	34IB	SINGLE PHASE 118V AC INSTRUMENT BUS 34 CHANNEL III	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	14 - Distrib Pnls and Xfer Sws	31ADP	PNL K48	125 VDC DISTRIBUTION PNL 31A	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	14 - Distrib Pnls and Xfer Sws	31DP	PNL PC3	125VDC DISTRIBUTION PANEL 31	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	14 - Distrib Pnls and Xfer Sws	31PP	PNL PC1	125VDC POWER PANEL 31	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	14 - Distrib Pnls and Xfer Sws	32ADP	PNL K49	125 VDC DISTRIBUTION PNL 32A	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	14 - Distrib Pnls and Xfer Sws	32DP	PNL PC4	125VDC DISTRIBUTION PANEL 32	YES	NO	YES	NO		I	No	No	X	X	X	X	X

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	14 - Distrib Pnls and Xfer Sws	32PP	PNL PC2	125VDC POWER PANEL 32	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	14 - Distrib Pnls and Xfer Sws	33DP	PNL PC8	125VDC DISTRIBUTION PANEL 33	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	14 - Distrib Pnls and Xfer Sws	33PP	PNL PC9	125VDC POWER PANEL 33	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	14 - Distrib Pnls and Xfer Sws	34DP	PNL PD9	125VDC DISTRIBUTION PANEL 34	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	14 - Distrib Pnls and Xfer Sws	34PP	PNL PF7	125VDC POWER PANEL 34	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	00 - Other	CO2-CP-1A	N/A	EDG ROOM CO2 PANEL (CONT BLDG 15')	YES	NO	YES	YES	V-001[1]	I	No	No	X	X	X	X	X
3	00 - Other	CO2-CP-1B	N/A	EDG ROOM CO2 PANEL (CONT BLDG 15')	YES	NO	YES	YES	V-001[2]	I	No	No	X	X	X	X	X
3	00 - Other	CO2-CP-1C	N/A	EDG ROOM CO2 PANEL (CONT BLDG 15')	YES	NO	YES	YES	V-001[3]	I	No	No	X	X	X	X	X
3	15 - Battery Racks	BATT 31	BATT 31	BATTERY	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	15 - Battery Racks	BATT 32	BATT 32	BATTERY	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	15 - Battery Racks	BATT 33	BATT 33	BATTERY	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	15 - Battery Racks	BATT 34	BATT 34	BATTERY	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	16 - Batt Chrgrs / Static Invs	31 INVERTER	31 INVERTER	STATIC INVERTER 31	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	16 - Batt Chrgrs / Static Invs	32 INVERTER	32 INVERTER	STATIC INVERTER 32	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	16 - Batt Chrgrs / Static Invs	33 INVERTER	33 INVERTER	STATIC INVERTER 33	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	16 - Batt Chrgrs / Static Invs	34 INVERTER	34 INVERTER	STATIC INVERTER 34	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	16 - Batt Chrgrs / Static Invs	BATT CHGR 31	BATT CHGR 31	BATTERY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	16 - Batt Chrgrs / Static Invs	BATT CHGR 32	BATT CHGR 32	BATTERY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	16 - Batt Chrgrs / Static Invs	BATT CHGR 33	BATT CHGR 33	BATTERY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	16 - Batt Chrgrs / Static Invs	BATT CHGR 34	BATT CHGR 34	BATTERY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	17 - Engine Generators	DE-31	DE-31	ED 31 ENGINE	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	17 - Engine Generators	DE-32	DE-32	ED 32 ENGINE	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	17 - Engine Generators	DE-33	DE-33	ED33 ENGINE	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	17 - Engine Generators	DG-31	DG-31	DIESEL GEN NO. 31	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	17 - Engine Generators	DG-32	DG-32	DIESEL GEN NO. 32	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	17 - Engine Generators	DG-33	DG-33	DIESEL GEN NO. 33	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	18 - Instrument Racks	RACK#19	RACK 19	PRESSURIZER LEVEL TRANSMITTER CABINET	YES	NO	YES	NO		I	H/T	B		X	X		
3	18 - Instrument Racks	RACK#21	RACK 21	STEAM GENERATORS LEVEL TRANSMITTER	YES	NO	YES	NO		I	H/T	No		X		X	
3	18 - Instrument Racks	RACK#4A	RACK 4-A	SG #31 & #32 MAIN STM FLOW TRANSMITTER RACK	YES	NO	YES	NO		I	H/T	No		X		X	
3	18 - Instrument Racks	RACK#4B	RACK 4-B	SG #33 & #34 MAIN STM FLOW TRANSMITTER RACK	YES	NO	YES	NO		I	H/T	No		X		X	
3	18 - Instrument Racks	RACK#6	RACK 6A	PRESSURIZATION LOCAL INSTRUMENT RACK 6	YES	NO	YES	NO		I	H/T	B					X
3	18 - Instrument Racks	RACK#9	RACK 9	MAIN STM PRESS TRANSMITTER RACK	YES	NO	YES	NO		I	H/T	No		X		X	
3	18 - Instrument Racks		RVLIS RACK TRAIN A	RVLIS TRANSMITTER RACK TRAIN "A"	YES	NO	YES	NO		I	H/T	B			X		

[1] Although a modification to this panel was credited in the IPEEE, the panel deficiency was actually discovered and initiated separate from the IPEEE effort

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	18 - Instrument Racks		RVLIS RACK TRAIN B	RVLIS TRANSMITTER RACK TRAIN "B"	YES	NO	YES	NO		I	H/T	B			X		
3	19 - Temperature Sensors	TE-122	TE-122	EXCESS LETDOWN TEMP ELEMENT	YES	NO	YES	NO		I	No	B			X		
3	19 - Temperature Sensors	TE-126	TE-126	REGEN HX CHG FLOW TEMP ELEMENT	YES	NO	YES	NO		I	No	B			X		
3	19 - Temperature Sensors	TE-127	TE-127	REGEN HX CHG FLOW TEMPERATURE ELEMENT	YES	NO	YES	NO		I	No	B			X		
3	19 - Temperature Sensors	TE-130	TE-130	NON REGHX OUTLET LETDOWN TEMP ELEMENT	YES	NO	YES	YES		I	No	B			X		
3	19 - Temperature Sensors	TI-122	TI-122	EXCESS LETDOWN TEMPERATURE INDICATOR	YES	NO	YES	NO		I	H/T	No			X		
3	19 - Temperature Sensors	TI-126	TI-126	REGEN HX CHG FLOW TEMP INDICATOR	YES	NO	YES	NO		I	H/T	No			X		
3	19 - Temperature Sensors	TI-127	TI-127	REGEN HX CHG FLOW TEMPERATURE INDICATOR	YES	NO	YES	NO		I	H/T	No			X		
3	19 - Temperature Sensors	TI-130	TI-130	NON REGHX OUTLET LETDOWN TEMP INDICATOR	YES	NO	YES	NO		I	No	No			X		
3	19 - Temperature Sensors	TE-1317	TE-1317	RVWL CONDUIT COMPENSATION TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B			X		
3	19 - Temperature Sensors	TE-1318	TE-1318	RVWL CONDUIT COMPENSATION	YES	NO	YES	NO		I	H/T	B			X		
3	19 - Temperature Sensors	TE-1319	TE-1319	RVWL LOWER TAP CAPILLARY	YES	NO	YES	NO		I	H/T	B			X		
3	19 - Temperature Sensors	TE-1327	TE-1327	RVWL CONDUIT COMPENSATION TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B			X		
3	19 - Temperature Sensors	TE-1328	TE-1328	RVWL CONDUIT COMPENSATION TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B			X		
3	19 - Temperature Sensors	TE-1329	TE-1329	RVWL LOWER TAP CAPILLARY	YES	NO	YES	NO		I	H/T	B			X		
3	19 - Temperature Sensors	TE-411A1	TE-411A1	RCS LOOP 31 HOT LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-411A2	TE-411A2	RCS LOOP 31 HOT LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-411A3	TE-411A3	RCS LOOP 31 HOT LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-411B	TE-411B	RCS LOOP 31 COLD LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-413A	TE-413A	RCS LOOP 31 HOT LEG WIDE RANGE TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-413B	TE-413B	RCS LOOP 31 COLD LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-421A1	TE-421A1	RCS LOOP 32 HOT LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-421A2	TE-421A2	RCS LOOP 32 HOT LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-421A3	TE-421A3	RCS LOOP 32 HOT LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-421B	TE-421B	RCS LOOP 32 COLD LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-423A	TE-423A3	RCS LOOP 32 HOT LEG WIDE RANGE TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-423B	TE-423B	RCS LOOP 32 COLD LEG TEMP ELEMENT	YES	NO	YES	YES		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-431A1	TE-431A1	RCS LOOP 33 HOT LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-431A2	TE-431A2	RCS LOOP 33 HOT LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-431A3	TE-431A3	RCS LOOP 33 HOT LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-431B	TE-431B	RCS LOOP 33 COLD LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-433A	TE-433A	RCS LOOP 33 HOT LEG WIDE RANGE TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-433B	TE-433B	RCS LOOP 33 COLD LEG TEMP ELEMENT	YES	NO	YES	YES		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-441A1	TE-441A1	RCS LOOP 34 HOT LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-441A2	TE-441A2	RCS LOOP 34 HOT LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-441A3	TE-441A3	RCS LOOP 34 HOT LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-441B	TE-441B	RCS LOOP 34 COLD LEG TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B	X	X	X	X	

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	19 - Temperature Sensors	TE-443A	TE-443A	RCS LOOP 34 HOT LEG WIDE RANGE TEMP ELEMENT	YES	NO	YES	YES		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-443B	TE-443B	RCS LOOP 34 COLD LEG TEMP ELEMENT	YES	NO	YES	YES		I	H/T	B	X	X	X	X	
3	19 - Temperature Sensors	TE-453	TE-453	PRESSURIZER LIQUID SPACE TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B		X			
3	19 - Temperature Sensors	TE-454	TE-454	PRESSURIZER STEAM SPACE TEMP ELEMENT	YES	NO	YES	YES		I	H/T	B		X			
3	19 - Temperature Sensors	TE-636	TE-636	RHR HX TEMP INLET TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B			X	X	
3	19 - Temperature Sensors	TE-639	TE-639	RHR HX 31 OUTLET TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B			X	X	
3	19 - Temperature Sensors	TE-641	TE-641	RHR HX 32 OUTLET TEMP ELEMENT	YES	NO	YES	NO		I	H/T	B			X	X	
3	20 - Instru and Control Pnls		PNL PT2	AUX BOILER FEED PMP CONTROL STATION	YES	NO	YES	NO		I	No	No		X		X	
3	20 - Instru and Control Pnls		PNL PL6	CHARGING PUMPS SPEED CONTROL PANEL	YES	NO	YES	NO		I	No	No	X		X		
3	20 - Instru and Control Pnls		PNL 31EDGA	31 EDG AUX STARTERS & CONTROL PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls		PNL 32EDGA	32 EDG AUX STARTERS & CONTROL PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls		PNL 33EDGA	33 EDG AUX STARTERS & CONTROL PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls		PNL VRP 31	31 EDG VOLTAGE REG PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls		PNL VRP 32	32 EDG VOLTAGR REG PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls		PNL VRP 33	33 EDG VOLTAGE REG PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls	PI1	PNL PI1	31 EDG PNEU CONTROL PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls	PI2	PNL PI2	32 EDG PNEU CONTROL PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls	PI3	PNL PI3	33 EDG PNEU CONTROL PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls	PP9	PNL PP9	31 EDG CONTROL PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls	PQ1	PNL PQ1	32 EDG CONTROL PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls	PQ2	PNL PQ2	33 EDG CONTROL PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls		PNL JC1	FAN ROOM CONTROL PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls		HJ8	33/34 ETEF LOCAL CTRL STATION	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls		HJ9	31/32 ETEF LOCAL CTRL STATION	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls		PNL HF1	COMPRESSOR 31 CONTROL STATION	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls	HA7	PNL HA7	COMPRESSOR 32 CONTROL STATION	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls		PNL #1	ATM STEAM DUMP PANEL #1	YES	NO	YES	NO		I	H/T	No		X		X	
3	20 - Instru and Control Pnls		PNL #2	ATM STEAM DUMP PANEL #2	YES	NO	YES	NO		I	H/T	No		X		X	
3	20 - Instru and Control Pnls		PNL 1-31	31 SG MSIV SOV PANEL	YES	NO	YES	NO		I	H/T	No		X		X	
3	20 - Instru and Control Pnls		PNL 1-32	32 SG MSIV SOV PANEL	YES	NO	YES	NO		I	H/T	No		X		X	
3	20 - Instru and Control Pnls		PNL 1-33	33 SG MSIV SOV PANEL	YES	NO	YES	NO		I	H/T	No		X		X	
3	20 - Instru and Control Pnls		PNL 1-34	34 SG MSIV SOV PANEL	YES	NO	YES	NO		I	H/T	No		X		X	
3	20 - Instru and Control Pnls		PNL N2	N2 BOTTLE SUPPLY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls	31AIB-2	31AIB-2	CNTMNT PARMETERS RECORDER CABINET "JO2" (CH II) HCMC-B	YES	NO	YES	NO		I	No	No					X
3	20 - Instru and Control Pnls	32AIB-2	32AIB-2	CNTMNT PARMETERS RECORDER CABINET "JO1" (CH I) HCMC-A	YES	NO	YES	NO		I	No	No					X
3	20 - Instru and Control Pnls		PNL PI7	LOCAL CCR AC CNTRL PANEL	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls		FLIGHT PANEL	FLIGHT PANEL	YES	NO	YES	NO		I	No	No					

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	20 - Instru and Control Pnls	RACK 18 (B-5)	RACK B-5	CCR RK'S "B4" AND "B5" (FEEDWATER CONTROL)	YES	NO	YES	NO		I	No	No		X		X	
3	20 - Instru and Control Pnls	RACK 2 (A-3)	RACK A-3	CCR RK'S "A2" AND "A3" (STM GEN ANALOG PROT CH I)	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls	RACK 20 (F-1)	RACK F-1	CCR RK "F1" (SIS/ANALOG)	YES	NO	YES	NO		I	No	No			X	X	
3	20 - Instru and Control Pnls	RACK 22 (C-9)	RACK C-9	CCR RKS "C9" AND "C10" (CVCS AUX)	YES	NO	YES	NO		I	No	No	X		X		
3	20 - Instru and Control Pnls	RACK 23 (A-6)	RACK A-6	CCR RK'S "A5" AND "A6" (RCS/OPS ANALOG)	YES	NO	YES	YES		I	No	No		X			
3	20 - Instru and Control Pnls	RACK 24 (A-5)	RACK A-5	CCR RK'S "A5" AND "A6" (RCS/OPS ANALOG)	YES	NO	YES	NO		I	No	No		X			
3	20 - Instru and Control Pnls	RACK 25 (B-4)	RACK B-4	CCR RK'S "B4" AND "B5" (FEEDWATER CONTROL)	YES	NO	YES	NO		I	No	No		X		X	
3	20 - Instru and Control Pnls	RACK 3 (A-2)	RACK A-2	CCR RK'S "A2" AND "A3" (STM GEN ANALOG PROT CH I)	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	20 - Instru and Control Pnls	RACK 6 (A-9)	RACK A-9	CCR RKS "A9" AND "A8" (STM GEN/ANALOG CH II)	YES	NO	YES	NO		I	No	No		X		X	
3	20 - Instru and Control Pnls	RACK 7 (A-8)	RACK A-8	CCR RKS "A9" AND "A8" (STM GEN/ANALOG CH II)	YES	NO	YES	NO		I	No	No		X		X	
3	20 - Instru and Control Pnls	RACK E-2	RACK E-2	CCR RK'S "E2" AND "F2" (RPS CH I)	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK E-3	RACK E-3	CCR RKS "E3" AND "FE" (RPS CH II)	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK E-4	RACK E-4	CCR RK'S "E4" AND "F4" (RPS CH III)	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK E-5	RACK E-5	CCR RK'S "E5" AND "F5" (RPS/LOGIC CH IV)	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK E-6	RACK E-6	CONTROL RM RK "E6" (REACTOR TRIP RELAY	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK F-2	RACK F-2	CCR RK'S "E2" AND "F2" (RPS CH I)	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK F-3	RACK F-3	CCR RKS "E3" AND "FE" (RPS CH II)	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK F-4	RACK F-4	CCR RK'S "E4" AND "F4" (RPS CH III)	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK F-5	RACK F-5	CCR RK'S "E5" AND "F5" (RPS/LOGIC CH IV)	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK F-6	RACK F-6	CCR RK "F6" (RPS CH II)	YES	NO	YES	YES		I	No	No	X				
3	20 - Instru and Control Pnls	RACK G-1	RACK G-1	CCR RK "G1" (SIS - MISC RELAY	YES	NO	YES	NO		I	No	No			X	X	
3	20 - Instru and Control Pnls	RACK G-2	RACK G-2	CCR RK "G2" (SIS MISC RELAY	YES	NO	YES	NO		I	No	No			X	X	
3	20 - Instru and Control Pnls	RACK G-3	RACK G-3	CCR RK'S "G3" AND "G5" (SIS - MISC RELAY	YES	NO	YES	NO		I	No	No			X	X	
3	20 - Instru and Control Pnls	RACK G-5	RACK G-5	CCR RK'S "G3" AND "G5" (SIS - MISC RELAY	YES	NO	YES	NO		I	No	No			X	X	
3	20 - Instru and Control Pnls	RACK H-1	RACK H-1	CCR RK "H1" (RCS/OPS ANALOG CH I) I.B. VOLTMETER	YES	NO	YES	NO		I	No	No		X			
3	20 - Instru and Control Pnls	RACK H-3	RACK H-3	CCR RK "H3" (RCS/OPS ANALOG CH IV) I.B. VOLTMETER	YES	NO	YES	NO		I	No	No		X			
3	20 - Instru and Control Pnls	RACK H-4	RACK H-4	CONTROL RM RK "H4" (RCS OVER-PRESSURIZATION SY	YES	NO	YES	NO		I	No	No		X			
3	20 - Instru and Control Pnls	RACK H-5	RACK H-5	CONTROL RM RK "H5" (RCS OVERPRESSURIZATION SY	YES	NO	YES	NO		I	No	No		X			
3	20 - Instru and Control Pnls		BK-UP GRP 31 DIST PNL	PRZR HTR BK UP GROUP 31 DIST PNL	YES	NO	YES	NO		I	No	No		X			
3	20 - Instru and Control Pnls		BK-UP GRP 32 DIST PNL	PRZR HTR BK UP GROUP 32 DIST PNL	YES	NO	YES	NO		I	No	No		X			
3	20 - Instru and Control Pnls		BK-UP GRP 33 DIST PNL	PRZR HTR BK UP GROUP 33 DIST PNL	YES	NO	YES	NO		I	No	No		X			
3	20 - Instru and Control Pnls	RVLIS CAB	CAB JR9	RVLIS CABINET	YES	NO	YES	NO		I	No	No			X		
3	20 - Instru and Control Pnls		PNL PS6	SERVICE WATER PUMP CONTROL STATION	YES	NO	YES	NO		I	No	No				X	X
3	21 - Tanks / Heat Exchangers	ACAHCC1	ACAHCC1	COMPONENT COOLING WATER HEAT EXCHANGER NO. 31	YES	NO	YES	NO		I	H/T	No				X	
3	21 - Tanks / Heat Exchangers	ACAHCC2	ACAHCC2	COMPONENT COOLING WATER HEAT EXCHANGER NO. 32	YES	NO	YES	NO		I	H/T	No				X	
3	21 - Tanks / Heat Exchangers	ACATCC1	ACATCC1	CC SURGE TANK #31	YES	NO	YES	NO		I	No	No				X	
3	21 - Tanks / Heat Exchangers	ACATCC2	ACATCC2	CC SURGE TANK #32	YES	NO	YES	NO		I	No	No				X	

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	21 - Tanks / Heat Exchangers	RHRP31-HTX	RHRP31-HTX	RHR PUMP #31 PUMP SEAL HTEXCH	YES	NO	YES	NO		I	No	No			X	X	
3	21 - Tanks / Heat Exchangers	RHRP32-HTX	RHRP32-HTX	RHR PUMP #32 PUMP SEAL HTEXCH	YES	NO	YES	NO		I	No	No			X	X	
3	21 - Tanks / Heat Exchangers	COND STOR TK	CST	CONDENSATE STOR TANK	YES	NO	YES	NO		I	No	No		X		X	
3	21 - Tanks / Heat Exchangers	CHRG PP31 CASIN	CHRG PP31 CASING HTX	CHARGING PP31 FLUID DRIVE CASING OIL COOLER	YES	NO	YES	NO		I	No	No	X		X		
3	21 - Tanks / Heat Exchangers	CHRG PP31 CRANK	CHRG PP31 CRANK HTX	CHARGING PP31 PUMP CRANKCASE OIL COOLER	YES	NO	YES	NO		I	No	No	X		X		
3	21 - Tanks / Heat Exchangers	CHRG PP32 CASIN	CHRG PP32 CASING HTX	CHARGING PP32 FLUID DRIVE CASING OIL COOLER	YES	NO	YES	NO		I	No	No	X		X		
3	21 - Tanks / Heat Exchangers	CHRG PP32 CRANK	CHRG PP32 CRANK HTX	CHARGING PP32 PUMP CRANKCASE OIL COOLER	YES	NO	YES	NO		I	No	No	X		X		
3	21 - Tanks / Heat Exchangers	CHRG PP33 CASIN	CHRG PP33 CASING HTX	CHARGING PP33 FLUID DRIVE CASING OIL COOLER	YES	NO	YES	NO		I	No	No	X		X		
3	21 - Tanks / Heat Exchangers	CHRG PP33 CRANK	CHRG PP33 CRANK HTX	CHARGING PP33 PUMP CRANKCASE OIL COOLER	YES	NO	YES	NO		I	No	No	X		X		
3	21 - Tanks / Heat Exchangers	CSAHEL1	CSAHEL1	31 EXCS LETDWN HTX	YES	NO	YES	NO		I	H/T	B			X		
3	21 - Tanks / Heat Exchangers	CSAHNRT	CSAHNRT	NON REGEN HEAT EXCH NO 31	YES	NO	YES	NO		I	No	B			X		
3	21 - Tanks / Heat Exchangers	CSAHRG1	CSAHRG1	31 REGEN HTX	YES	NO	YES	NO		I	No	B			X		
3	21 - Tanks / Heat Exchangers	CSAHSW1	CSAHSW1	SEAL WTR HEAT EXCH NO. 31	YES	NO	YES	NO		I	No	B			X		
3	21 - Tanks / Heat Exchangers	CSATBA1	CSATBA1	BORIC ACID STG TANK 31	YES	NO	YES	NO		I	No	B	X				
3	21 - Tanks / Heat Exchangers	CSATBA2	CSATBA2	BORIC ACID STG TANK 32	YES	NO	YES	NO		I	No	B	X				
3	21 - Tanks / Heat Exchangers	CSATVC1	CSATVC1	VOLUME CONTROL TANK NO. 31	YES	NO	YES	NO		I	No	B	X		X		
3	21 - Tanks / Heat Exchangers	EDG-31-AR-TNK	0031ART	AIR RECEIVER 30 GAL. TANK # 31	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-31-AR-TNK	EDG-31-AR-TNK	DG 31 AIR RECEIVER TANK	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-31-FO-DTNK	EDG-31-FO-DTNK	F.O. DAY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-31-FO-STNK	EDG-31-FO-STNK	F.O. STORAGE TANK 31	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-31-JW HTX	EDG-31-JW HTX	DG 31 JACKET WATER COOLER	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-31-JW-XTNK	EDG-31-JW-XTNK	DG 31 JACKET WATER EXPANSION TANK	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-31-LO HTX	EDG-31-LO HTX	DG 31 LUBE OIL COOLER	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-32-AR-TNK	0032ART	AIR RECEIVER 30 GAL. TANK # 32	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-32-AR-TNK	EDG-32-AR-TNK	DG 32 AIR RECEIVER TANK	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-32-FO-DTNK	EDG-32-FO-DTNK	F.O. DAY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-32-FO-STNK	EDG-32-FO-STNK	F.O. STORAGE TANK 32	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-32-JW HTX	EDG-32-JW HTX	DG 32 JACKET WATER COOLER	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-32-JW-XTNK	EDG-32-JW-XTNK	DG 32 JACKET WATER EXPANSION TANK	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-32-LO HTX	EDG-32-LO HTX	DG 32 LUBE OIL COOLER	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-33-AR-TNK	0033ART	AIR RECEIVER 30 GAL. TANK # 33	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-33-AR-TNK	EDG-33-AR-TNK	DG 33 AIR RECEIVER TANK	YES	NO	YES	YES		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-33-FO-DTNK	EDG-33-FO-DTNK	F.O. DAY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-33-FO-STNK	EDG-33-FO-STNK	F.O. STORAGE TANK 33	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-33-JW HTX	EDG-33-JW HTX	DG 33 JACKET WATER COOLER	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-33-JW-XTNK	EDG-33-JW-XTNK	DG 33 JACKET WATER EXPANSION TANK	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	EDG-33-LO HTX	EDG-33-LO HTX	DG 33 LUBE OIL COOLER	YES	NO	YES	NO		I	No	No	X	X	X	X	X

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	21 - Tanks / Heat Exchangers	31A HDDT	31A HDDT	31A HEATLESS DESSICANT DRY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	31B HDDT	31B HDDT	31B HEATLESS DESSICANT DRY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	3KAT15	3KAT15	COMPRESSED AIR SY	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	CC-31-TK	IACCHT	INST. AIR COMP CLG HEAD TANK	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	IA AFTERCOOL 31	0031IACJC	INST AIR COMP 31 JACKET COOLER	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	IA AFTERCOOL 31	IA AFTERCOOL 31 HTX	IA COMPRESSOR 31 AFTERCOOLER	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	IA AFTERCOOL 32	0032IACJC	INST AIR COMP 32 JACKET COOLER	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	IA AFTERCOOL 32	IA AFTERCOOL 32 HTX	IA COMPRESSOR 32 AFTERCOOLER	YES	NO	YES	NO		I	No	No	X	X	X	X	X
3	21 - Tanks / Heat Exchangers	MS-1-31 (AO)	0031ARTMSIV	MSIV AIR RECEIVER TANK (MS-1-31)	YES	NO	YES	NO		I	H/T	No		X		X	
3	21 - Tanks / Heat Exchangers	MS-1-32 (AO)	0032ARTMSIV	MSIV AIR RECIEVER TANK (MS-1-32)	YES	NO	YES	NO		I	H/T	No		X		X	
3	21 - Tanks / Heat Exchangers	MS-1-33 (AO)	0033ARTMSIV	MSIV AIR RECIEVER TANK (MS-1-33)	YES	NO	YES	NO		I	H/T	No		X		X	
3	21 - Tanks / Heat Exchangers	MS-1-34 (AO)	0034ARTMSIV	MSIV AIR RECIEVER TANK (MA-1-34)	YES	NO	YES	NO		I	H/T	No		X		X	
3	21 - Tanks / Heat Exchangers	PW-S-TK	PW-S-TK	PRIMARY	YES	NO	YES	NO		I	No	No			X		
3	21 - Tanks / Heat Exchangers	ACAHRS1	ACAHRS1	RHR HTEXCH # 31	YES	NO	YES	NO		I	H/T	B				X	
3	21 - Tanks / Heat Exchangers	ACAHRS2	ACAHRS2	RHR HTEXCH # 32	YES	NO	YES	NO		I	H/T	B				X	
3	21 - Tanks / Heat Exchangers	RWST-31	RWST-31	REFUEL WTR STORAGE TANK	YES	NO	YES	NO		O	No	B	X		X		
3	NOTE 1	FI-1200	FI-1200	AFW TO SG 31 FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No		X		X	
3	NOTE 1	FI-1201	FI-1201	AFW TO SG 32 FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No		X		X	
3	NOTE 1	FI-1202	FI-1202	AFW TO SG 33 FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No		X		X	
3	NOTE 1	FI-1203	FI-1203	AFW TO SG 34 FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No		X		X	
3	NOTE 1	HC-1118A	HC-1118A	I/P CONVERTER FOR AFWP 32 TURBINE SPEED CONTROL VALVE HCV-1118	YES	NO	NOTE 1	YES		I	No	No		X		X	
3	NOTE 1	HC-405A	HC-405A	AFWP 32 FCV-405A HAND CONTROLLER	YES	NO	NOTE 1	NO		I	No	No		X		X	
3	NOTE 1	HC-405B	HC-405B	AFWP 32 FCV-405B HAND CONTROLLER	YES	NO	NOTE 1	NO		I	No	No		X		X	
3	NOTE 1	HC-405C	HC-405C	AFWP 32 FCV-405C HAND CONTROLLER	YES	NO	NOTE 1	NO		I	No	No		X		X	
3	NOTE 1	HC-405D	HC-405D	AFWP 32 FCV-405D HAND CONTROLLER	YES	NO	NOTE 1	NO		I	No	No		X		X	
3	NOTE 1	HC-406A	HC-406A	AFWP 31 FCV-406A HAND CONTROLLER	YES	NO	NOTE 1	NO		I	No	No		X		X	
3	NOTE 1	HC-406B	HC-406B	AFWP 31 FCV-406B HAND CONTROLLER	YES	NO	NOTE 1	NO		I	No	No		X		X	
3	NOTE 1	HC-406C	HC-406C	AFWP 33 FCV-406C HAND CONTROLLER	YES	NO	NOTE 1	NO		I	No	No		X		X	
3	NOTE 1	HC-406D	HC-406D	AFWP 33 FCV-406D HAND CONTROLLER	YES	NO	NOTE 1	NO		I	No	No		X		X	
3	NOTE 1		0033CHPD	33 CHP PULSATION DAMPENER	YES	NO	NOTE 1	NO		I	No	No	X		X		
3	NOTE 1	FIC-110	FIC-110	BORIC ACID FLOW CONTROLLER	YES	NO	NOTE 1	NO		I	No	No	X				
3	NOTE 1	SC-141A	SC-141A	31 CHRG PP SPEED CONTROL	YES	NO	NOTE 1	NO		I	No	No	X		X		
3	NOTE 1	SC-141B	SC-141B	32 CHRG PP SPEED CONTROL	YES	NO	NOTE 1	YES		I	No	No	X		X		
3	NOTE 1	SC-141C	SC-141C	33 CHRG PP SPEED CONTROL	YES	NO	NOTE 1	NO		I	No	No	X		X		
3	NOTE 1		IB33 BY	INST BUS 33,33A MANUAL BY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		IB34 BY	INST BUS 34,34A MANUAL BY	YES	NO	NOTE 1	YES		I	No	No					

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	NOTE 1		IB31 BY	INST BUS 31,31A MANUAL BY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		IB32 BY	INST BUS 32,32A MANUAL BY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		BI3	STATIC INVERTER #31 FUSE BOX	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		BI4	STATIC INVERTER #32 FUSE BOX	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		K4C	STATIC INVERTER #33 FUSE BOX	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	31AIB	K50	118 VAC INST BUS 31A	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	32AIB	K51	118 VAC INST BUS 32A	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1		DP31-14	DG33 CONTROL PANEL "PQ2" (CH II) CIRCUIT BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		PP33-4	DIESEL GENERATOR 31 CONTROL CIRCUIT BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		31-BATT-FUSE	BATTERY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		32-BATT-FUSE	BATTERY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		33-BATT-FUSE	BATTERY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	31PP-17	31PP-17	125 VDC POWER PANEL 31 BATTERY	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	32PP-15	32PP-15	125VDC POWER PANEL 32 BATTERY	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	33PP-1	33PP-1	480V SWGR 31 BUS 2A BKR CONTROL AND BUS 2A AND 3A SAFEGUARDS CIRCUIT BREAKER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	33PP-MAIN	33PP-MAIN	POWER PANEL 33 BATT CKT BRKR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	34PP-MAIN	34PP-MAIN	POWER PANEL 34 BATT CKT BRKR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1		52/6AT5A	480V BUS TIE BREAKER - BUS 6A - 5A	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		FUSE-2A-PT	FUSES ON 480V BUS 2A POT XFRMR	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		FUSE-3A-PT	FUSES ON 480V BUS 3A POT XFRMR	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		FUSE-5A-PT	FUSES ON 480V BUS 5A POT XFRMR	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		FUSE-6A-PT	FUSES ON 480V BUS 6A POT XFRMR	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		OTS-2A	OVERCURRENT TRIP SWITCH	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		OTS-3A	OVERCURRENT TRIP SWITCH	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		OTS-5A	OVERCURRENT TRIP SWITCH	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		OTS-6A	OVERCURRENT TRIP SWITCH	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		BUS 2A-VM	VOLTAGE MONITOR	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		BUS 3A-VM	VOLTAGE MONITOR	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		BUS 5A-VM	VOLTAGE MONITOR	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		BUS 6A-VM	VOLTAGE MONITOR	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/2A	52/2A	480V STATION SERVICE TRANSFORMER NO. 2 BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/2AT3A	52/2AT3A	480V BUS TIE BREAKER - BUS 2A - 3A	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/2AT5A	52/2AT5A	480V BUS TIE BREAKER - BUS 2A - 5A	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/3A	52/3A	480V STATION SERVICE TRANSFORMER NO. 3 BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/3AT6A	52/3AT6A	480V BUS TIE BREAKER - BUS 3A - 6A	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/5A	52/5A	480V STATION SERVICE TRANSFORMER NO. 5 BREAKER	YES	NO	NOTE 1	YES		I	No	No					

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	NOTE 1	52/6A	52/6A	480V STATION SERVICE TRANSFROMER NO. 6 BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/MCC3	52/MCC3	33MCC SUPPLY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/MCC4	52/MCC4	34MCC SUPPLY	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	52/MCC6A	52/MCC6A	36AMCC SUPPLY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/MCC6B	52/MCC6B	36BMCC SUPPLY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/MCC6C	52/MCC6C	36CMCC SUPPLY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/MCC7	52/MCC7	37MCC SUPPLY	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	52/MCC9	52/MCC9	39MCC SUPPLY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		TB X32	RELAY	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1		TB Y	RELAY	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	52/AF1	52/AF1	31 AUXILIARY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/AF3	52/AF3	33 AUXILIARY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	FT-1200	FT-1200	AFW TO SG 31 FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FT-1201	FT-1201	AFW TO SG 32 FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FT-1202	FT-1202	AFW TO SG 33 FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FT-1203	FT-1203	AFW TO SG 34 FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-1260	PI-1260	AFW 31 DISCHG PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-1261	PI-1261	AFW 32 DISCHG PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-1262	PI-1262	AFW 33 DISCHG PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-405A	PM-405A	CTRL VLV FCV-405A I/P TRANSDUCER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-405B	PM-405B	CTRL VLV FCV-405B I/P TRANSDUCER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-405C	PM-405C	CTRL VLV FCV-405C I/P TRANSDUCER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-405D	PM-405D	CTRL VLV FCV-405D I/P TRANSDUCER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-406A	PM-406A	SG #31 FW VALVES HI SEL.	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-406B	PM-406B	SG #32 FW VALVES SIG. HI SEL.	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-406C	PM-406C	SG #33 FW VALVES SIG. HI SEL.	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-406D	PM-406D	SG #34 FW VALVES SIG. HI SEL.	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-406E	PM-406E	CTRL VLV FCV-406A I/P TRANSDUCER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-406F	PM-406F	CTRL VLV FCV-406B I/P TRANSDUCER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	PM-406G	PM-406G	CTRL VLV FCV-406C I/P TRANSDUCER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-406H	PM-406H	CTRL VLV FCV-406D I/P TRANSDUCER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-1260	PT-1260	AFW 31 DISCHG PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-1261	PT-1261	AFW 32 DISCHG PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-1262	PT-1262	AFW 33 DISCHG PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-406A	PT-406A	31 AFW PP DISCH PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-406B	PT-406B	33 AFW PP DISCH PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	52/CC1	52/CC1	31 COMPONENT COOLING WATER PUMP BREAKER	YES	NO	NOTE 1	YES		I	No	No					

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	NOTE 1	52/CC2	52/CC2	32 COMPONENT COOLING WATER PUMP BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/CC3	52/CC3	33 COMPONENT COOLING WATER PUMP BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	FI-601A	FI-601A	CCW HEADER FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-601B	FI-601B	CCW HEADER FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FT-601A	FT-601A	CCW HTX OUTLET FLOW	M	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FT-601B	FT-601B	CCW HTX OUTLET FLOW	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-628B	LI-628B	CCW SURGE TANK # 31 LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-629B	LI-629B	CCW SURGE TANK # 32 LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LT-628	LT-628	CCW SURGE TANK # 31 LEVEL TRANSMITTER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	LT-629	LT-629	CCW SURGE TANK # 32 LEVEL TRANSMITTER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	LT-1128	LT-1128	COND STG TANK LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LT-1128A	LT-1128A	COND STG TANK LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	52/CRF1	52/CRF1	31 FAN COOLER UNIT BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/CRF2	52/CRF2	32 FAN COOLER UNIT BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/CRF3	52/CRF3	33 FAN COOLER UNIT BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/CRF4	52/CRF4	34 FAN COOLER UNIT BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/CRF5	52/CRF5	35 FAN COOLER UNIT BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		CRPI	CONTROL ROD CLUSTER POSITIVE INDICATOR	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/CS1	52/CS1	31 CONTAINMENT SPRAY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/CS2	52/CS2	32 CONTAINMENT SPRAY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		0031CHPS	31 CHARG PMP SUCT STABILIZER SEPARATOR	YES	NO	NOTE 1	YES		I	No	B					
3	NOTE 1		0032CHPS	32 CHARG PMP SUCT STABILIZER SEPARATOR	YES	NO	NOTE 1	YES		I	No	B					
3	NOTE 1		0033CHPS	33 CHARG PMP SUCT STABILIZER SEPARATOR	YES	NO	NOTE 1	YES		I	No	B					
3	NOTE 1	52/C1	52/C1	31 CHARGING PUMP BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/C2	52/C2	32 CHARGING PUMP BREAKER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	52/C3	52/C3	33 CHARGING PUMP BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	CH-AOV-310	CH-310	DEBORATING DEMIN DIVERSION	YES	NO	NOTE 1	NO		I	No	B					
3	NOTE 1	FI-115A	FI-115A	SEAL INJ. FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-116A	FI-116A	SEAL INJ. FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-128B	FI-128B	CHG FLOW TO REG HX INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-134	FI-134	LETDOWN FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-143A	FI-143A	SEAL INJ. FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-144A	FI-144A	SEAL INJ. FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FIC-111	FIC-111	PRIMARY	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FIT-111	FIT-111	PRM WTR FLOW INOZ XMTR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FIT-156A	FIT-156A	RCP 34 SEAL LEAKOFF FLOW TRANSMITTER	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FIT-156B	FIT-156B	RCP 34 SEAL LEAKOFF FLOW TRANSMITTER	YES	NO	NOTE 1	YES		I	H/T	B					

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT-	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	NOTE 1	FIT-157A	FIT-157A	RCP 33 SEAL LEAKOFF FLOW TRANSMITTER	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FIT-157B	FIT-157B	RCP 33 SEAL LEAKOFF FLOW TRANSMITTER	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FIT-158A	FIT-158A	RCP 32 SEAL LEAKOFF FLOW TRANSMITTER	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FIT-158B	FIT-158B	RCP 32 SEAL LEAKOFF FLOW TRANSMITTER	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FIT-159A	FIT-159A	RCP 31 SEAL LEAKOFF FLOW TRANSMITTER	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FIT-159B	FIT-159B	RCP 31 SEAL LEAKOFF FLOW TRANSMITTER	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FR-156	FR-156	34 RCP SEAL LEAKOFF FLOW	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FR-157	FR-157	33 RCP SEAL LEAKOFF FLOW	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FR-158	FR-158	32 RCP SEAL LEAKOFF FLOW	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FR-159	FR-159	31 RCP SEAL LEAKOFF FLOW	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FT-115A	FT-115A	SEAL INJ. FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	No	B					
3	NOTE 1	FT-116A	FT-116A	SEAL INJ. FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	No	B					
3	NOTE 1	FT-128	FT-128	CHG FLOW TO REG HX TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FT-134	FT-134	LETDWN FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FT-143A	FT-143A	SEAL INJ. FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FT-144A	FT-144A	SEAL INJ. FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-102	LI-102	BORIC ACID STORAGE TANK #32 LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-106	LI-106	BORIC ACID STORAGE TANK #31 LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-112	LI-112	VCT LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LT-102	LT-102	BORIC ACID STORAGE TANK #32 LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	No	B					
3	NOTE 1	LT-106	LT-106	BORIC ACID STORAGE TANK #31 LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	No	B					
3	NOTE 1	LT-112	LT-112	VCT LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	No	B					
3	NOTE 1	PI-135	PI-135	NON REGEN HX OUTLET LETDOWN PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-139	PI-139	VCT PRESSURE INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-142B	PI-142B	CHG PP DISCH PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-135	PT-135	NON REGEN HX OUTLET LETDOWN PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-139	PT-139	VCT PRESSURE TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-142	PT-142	CHG PP DISCH PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	Y	Y	BORIC ACID FLOW TOTALIZER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1		CPT-29-(N)	FUSE (NEG) AT SWGR31 CPT29	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		CPT-29-(P)	FUSE (POS) AT SWGR31 CPT29	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		D31-F10	FUSE F10(POS)	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		D31-F11	FUSE F11(NEG)	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		D32-F10	FUSE F10(POS)	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		D32-F11	FUSE F11(NEG)	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		D33-F10	FUSE F10(POS)	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		D33-F11	FUSE F11(NEG)	YES	NO	NOTE 1	YES		I	No	No					

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	NOTE 1		PP31-4(N)	NEG. FUSE FOR SWGR31 CPT18(52/EG3)	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		PP31-4(P)	POS. FUSE FOR SWGR31 CPT18(52/EG3)	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		PP32-8(-)	FUSE(-) FOR SWGR32 CPT15(52/EG2)	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		PP32-8(+)	FUSE(+) FOR SWGR32 CPT15(52/EG2)	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		EDG-31 CCR WATT XDCR	DG 31 BUS OUTPUT WATTMETER TRANSDUCER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		EDG-32 CCR WATT XDCR	DG 32 BUS OUTPUT WATTMETER TRANSDUCER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1		EDG-33 CCR WATT XDCR	DG 33 BUS OUTPUT WATTMETER TRANSDUCER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/EG1	52/EG1	DIESEL GENERATOR 31 BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/EG2	52/EG2	DIESEL GNERATOR 32 BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/EG3	52/EG3	DIESEL GENERATOR 33 BREAKER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	ACV(GEN)-1	ACV(GEN)-1	DG 31 SY	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	ACV(GEN)-2	ACV(GEN)-2	DG 32 SY	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	ACV(GEN)-3	ACV(GEN)-3	DG 33 SY	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-1144	PI-1144	STATION AIR NUCL SERV PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-1192	PI-1192	IACC WATER PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-1144	PT-1144	STATION AIR NUCL SERV PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-1192	PT-1192	IACC WATER PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-417A	LI-417A	SG 31 LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-417D	LI-417D	SG 31 LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-427A	LI-427A	SG 32 LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-427D	LI-427D	SG 32 LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-437A	LI-437A	SG 33 LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-437D	LI-437D	SG 33 LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-447A	LI-447A	SG 34 LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-447D	LI-447D	SG 34 LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LR-417	LR-417-1	SG 31 LEVEL RECORDER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	LR-417	LR-417-2	SG 32 LEVEL RECORDER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	LR-437	LR-437-1	SG 33 LEVEL RECORDER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	LR-437	LR-437-2	SG 34 LEVEL RECORDER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	LT-417A	LT-417A	SG 31 LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	No					
3	NOTE 1	LT-417D	LT-417D	SG 31 LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	No					
3	NOTE 1	LT-427A	LT-427A	SG 32 LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	No					
3	NOTE 1	LT-427D	LT-427D	SG 32 LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	No					
3	NOTE 1	LT-437A	LT-437A	SG 33 LEVEL TRANSMITTER	YES	NO	NOTE 1	YES		I	H/T	No					
3	NOTE 1	LT-437D	LT-437D	SG 33 LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	No					
3	NOTE 1	LT-447A	LT-447A	SG 34 LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	No					
3	NOTE 1	LT-447D	LT-447D	SG 34 LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	No					

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm. UNIT	Type of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	NOTE 1	FI-419A	FI-419A	SG 31 STEAM FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-419B	FI-419B	SG 31 STEAM FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-429A	FI-429A	SG 32 STEAM FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-429B	FI-429B	SG 32 STEAM FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-439A	FI-439A	SG 33 STEAM FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-439B	FI-439B	SG 33 STEAM FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-449A	FI-449A	SG 34 STEAM FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-449B	FI-449B	SG 34 STEAM FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FT-419A	FT-419A	SG 31 STEAM FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FT-419B	FT-419B	SG 31 STEAM FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FT-429A	FT-429A	SG 32 STEAM FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FT-429B	FT-429B	SG 32 STEAM FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FT-439A	FT-439A	SG 33 STEAM FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FT-439B	FT-439B	SG 33 STEAM FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FT-449A	FT-449A	SG 34 STEAM FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FT-449B	FT-449B	SG 34 STEAM FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	PC-419	PC-419	SG #31 STEAM PRESS CONTROLLER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	PC-429	PC-429	SG #32 STEAM PRESS CONTROLLER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PC-439	PC-439	SG #33 STEAM PRESS CONTROLLER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	PC-449	PC-449	SG #34 STEAM PRESS CONTROLLER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-419A	PI-419A	SG 31 STEAM PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-419B	PI-419B	SG 31 STEAM PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-419C	PI-419C	SG 31 STEAM PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-429A	PI-429A	SG 32 STEAM PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-429B	PI-429B	SG 32 STEAM PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-429C	PI-429C	SG 32 STEAM PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-439A	PI-439A	SG 33 STEAM PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-439B	PI-439B	SG 33 STEAM PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-439C	PI-439C	SG 33 STEAM PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-449A	PI-449A	SG 34 STEAM PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-449B	PI-449B	SG 34 STEAM PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-449C	PI-449C	SG 34 STEAM PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-419-I	PM-419I	PRESSURE SIGNAL CONVERTER CONDITIONER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-429-I	PM-429I	PRESSURE SIGNAL CONVERTER CONDITIONER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-439-I	PM-439I	PRESSURE SIGNAL CONVERTER CONDITIONER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PM-449-I	PM-449I	PRESSURE SIGNAL CONVERTER CONDITIONER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-419A	PT-419A	SG 31 STEAM PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	No					

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	NOTE 1	PT-419B	PT-419B	SG 31 STEAM PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-419C	PT-419C	SG 31 STEAM PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-429A	PT-429A	SG 32 STEAM PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-429B	PT-429B	SG 32 STEAM PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-429C	PT-429C	SG 32 STEAM PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-439A	PT-439A	SG 33 STEAM PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	No					
3	NOTE 1	PT-439B	PT-439B	SG 33 STEAM PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	No					
3	NOTE 1	PT-439C	PT-439C	SG 33 STEAM PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	No					
3	NOTE 1	PT-449A	PT-449A	SG 34 STEAM PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	No					
3	NOTE 1	PT-449B	PT-449B	SG 34 STEAM PRESS TRANSMITTER	YES	NO	NOTE 1	YES		I	H/T	No					
3	NOTE 1	PT-449C	PT-449C	SG 34 STEAM PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	LR-1253	LR-1253	VC PARAMETERS CONTAINMENT LEVEL RECORDER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LR-1254	LR-1254	VC PARAMETERS CONTAINMENT LEVEL RECORDER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LT-1253	LT-1253	VC PARAMETERS CONTAINMENT LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LT-1254	LT-1254	VC PARAMETERS CONTAINMENT LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	N-31 PRE-AMP ASSY	FE1	PREAMPLIFIER FOR NE-31	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	N-32 PRE-AMP ASSY	FE2	PREAMPLIFIER FOR NE-32	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	N-44B	NI 44B	POWER RANGE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-31-101	NI 31B	SOURCE RANGE COUNT RATE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-31-102	NI 31D	SOURCE RANGE COUNT RATE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-32-101	NI 32B	SOURCE RANGE COUNT RATE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-32-102	NI 32D	SOURCE RANGE COUNT RATE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-35B	NI 35B	INTERMEDIATE RANGE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-35D	NI 35D	INTERMEDIATE RANGE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-36B	NI 36B	INTERMEDIATE RANGE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-36D	NI 36D	INTERMEDIATE RANGE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-41B	NI 41B	POWER RANGE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-41C	NI 41C	POWER RANGE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-42B	NI 42B	POWER RANGE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-42C	NI 42C	POWER RANGE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-43B	NI 43B	POWER RANGE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-43C	NI 43C	POWER RANGE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	NI-44C	NI 44C	POWER RANGE METER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PR-1421	PR-1421	CONTAINMENT PRESSUE RECORDER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PR-1422	PR-1422	CONTAINMENT PRESSUE RECORDER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-1421	PT-1421	CTMT PRESSURE TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-1422	PT-1422	CTMT PRESSURE TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm. UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	NOTE 1	PT-402	PT-402	LOOP 31 HOT LEG PRESSURE TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	PT-403	PT-403	LOOP 34 HOT LEG PRESSURE TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	Y	Y	DEMINERALIZED WATER FLOW TOTALIZER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-414	FI-414	RX COOLANT LOOP 1 FLOW INDICATOR CH I	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-415	FI-415	RX COOLANT LOOP 1 FLOW INDICATOR CH II	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-424	FI-424	RX COOLANT LOOP 2 FLOW INDICATOR CH I	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-425	FI-425	RX COOLANT LOOP 2 FLOW INDICATOR CH II	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-434	FI-434	RX COOLANT LOOP 3 FLOW INDICATOR CH I	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-435	FI-435	RX COOLANT LOOP 3 FLOW INDICATOR CH II	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-444	FI-444	RX COOLANT LOOP 4 FLOW INDICATOR CH I	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-445	FI-445	RX COOLANT LOOP 4 FLOW INDICATOR CH II	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-946A	FI-946A	RHR TO RCS 34 COLD LEG FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-946B	FI-946B	RHR TO RCS 33 COLD LEG FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-946C	FI-946C	RHR TO RCS 32 COLD LEG FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FI-946D	FI-946D	RHR TO RCS 31 COLD LEG FLOW INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	FT-414	FT-414	RX COOLANT LOOP 1 FLOW TRANSMITTER CH I	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FT-415	FT-415	RX COOLANT LOOP 1 FLOW TRANSMITTER CH II	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FT-424	FT-424	RX COOLANT LOOP 2 FLOW TRANSMITTER CH I	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FT-425	FT-425	RX COOLANT LOOP 2 FLOW TRANSMITTER CH II	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FT-434	FT-434	RX COOLANT LOOP 3 FLOW TRANSMITTER CH I	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FT-435	FT-435	RX COOLANT LOOP 3 FLOW TRANSMITTER CH II	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FT-444	FT-444	RX COOLANT LOOP 4 FLOW TRANSMITTER CH I	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FT-445	FT-445	RX COOLANT LOOP 4 FLOW TRANSMITTER CH II	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	FT-946A	FT-946A	RHR TO RCS 34 COLD LEG FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FT-946B	FT-946B	RHR TO RCS 33 COLD LEG FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FT-946C	FT-946C	RHR TO RCS 32 COLD LEG FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FT-946D	FT-946D	RHR TO RCS 31 COLD LEG FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	LI-459	LI-459	PRESSURIZER INDICATOR CH I	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-460	LI-460	PRESSURIZER INDICATOR CH II	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-461	LI-461	PRESSURIZER INDICATOR CH III	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-462A	LI-462A	PRESSURIZER INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LI-470	LI-470	PRT LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LT-1311	LI-1311	RVWL NARROW RANGE INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LT-1311	LT-1311	RX VESSEL LEVEL TRANSMITTER NARROW RANGE	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LT-1312	LI-1312	RVWL WIDE RANGE INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LT-1312	LT-1312	RX VESSEL LEVEL TRANSMITTER WIDE RANGE	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LT-1321	LI-1321	RVWL NARROW RANGE INDICATOR	YES	NO	NOTE 1	NO		I	No	No					

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm. UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	NOTE 1	LT-1321	LT-1321	RX VESSEL LVL TRNSMTR NARROW RANGE (RVLIS-B)	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LT-1322	LI-1322	RVWL WIDE RANGE INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LT-1322	LT-1322	RX VESSEL LEVEL TRNSMTR WIDE RANGE (RVLIS-B)	YES	NO	NOTE 1	NO		I	H/T	No					
3	NOTE 1	LT-459	LT-459	PRESSURIZER LEVEL TRANSMITTER CH I	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	LT-460	LT-460	PRESSURIZER LEVEL TRANSMITTER CH II	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	LT-461	LT-461	PRESSURIZER LEVEL TRANSMITTER CH III	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	LT-462	LT-462	PRESSURIZER LEVEL TRANSMITTER CH IV	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	LT-470	LT-470	PRT LEVEL TRANSMITTER	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	PBU31	PBU1	PRESSURIZER HEATER BACKUP GROUP 31	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PBU32	PBU2	PRESSURIZER HEATER BACKUP GROUP 32	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PBU33	PBU3	PRESSURIZER HEATER BACKUP GROUP 33	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-402	PI-402	LOOP 31 HOT LEG PRESSURE INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-403	PI-403	LOOP 34 HOT LEG PRESSURE INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-413K	PI-413K	LOOP 31 HOT LEG PRESSURE INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-443K	PI-443K	LOOP 34 HOT LEG PRESSURE INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-455	PI-455	PZR PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-456	PI-456	PZR PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-457	PI-457	PZR PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-472	PI-472	PRT PRESSURE INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-413	PT-413	LOOP 31 HOT LEG PRESSURE TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	PT-443	PT-443	LOOP 34 HOT LEG PRESSURE TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	PT-455	PT-455	PRESSURIZER PRESSURE CH I TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	PT-456	PT-456	PRESSURIZER PRESSURE CH II TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	PT-457	PT-457	PRESSURIZER PRESSURE CH III TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	PT-472	PT-472	PRT PRESSURE TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	No					
3	NOTE 1	PT-474	PT-474	PRESSURIZER PRESSURE CH IV TRANSMITTER	YES	NO	NOTE 1	YES		I	H/T	B					
3	NOTE 1	TI-453	TI-453	PRESSURIZER LIQUID SPACE TEMP INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	TI-454	TI-454	PRESSURIZER STEAM TEMP INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	TI-471	TI-471	PRT TEMP INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	TR-413	TR-413	RCS 31 LOOP HOT/COLD WIDE RANGE RECORDER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	TR-423	TR-423	RCS 32 LOOP HOT/COLD WIDE RANGE RECORDER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	TR-433	TR-433	RCS 33 LOOP HOT/COLD WIDE RANGE RECORDER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	TR-443	TR-443	RCS 34 LOOP HOT/COLD WIDE RANGE RECORDER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	52/RHR1	52/RHR1	RHR PUMP 31 BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/RHR2	52/RHR2	RHR PUMP 32 BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	FI-638	FI-638	RHR HEAT EXCHANGER 31 OUTLET FLOW INDICATOR	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	FI-640	FI-640	RHR HEAT EXCHANGER 32 OUTLET FLOW INDICATOR	YES	NO	NOTE 1	YES		I	No	No					

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	NOTE 1	FT-638	FT-638	RHR FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	FT-640	FT-640	RHR FLOW TRANSMITTER	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	TR-636	TR-636	RHR HX 31 & 32 OUTLET TEMP. RECORDER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/R1	52/R1	RECIRCULATION PUMP 31 BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/R2	52/R2	RECIRCULATION PUMP 32 BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/SI1	52/SI1	SAFETY	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	52/SI2	52/SI2	SAFETY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/SI3	52/SI3	SAFETY	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	LI-920	LI-920	RWST LEVEL INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	LT-920	LT-920	RWST LEVEL TRANSMITTER	YES	NO	NOTE 1	NO		O	No	B					
3	NOTE 1	PT-433	PT-433	LOOP 33 HOT LEG PRESSURE	YES	NO	NOTE 1	NO		I	H/T	B					
3	NOTE 1	52/SW3	52/SW3	SERVICE WATER PUMP 33 BREAKER	YES	NO	NOTE 1	YES		I	No	No					
3	NOTE 1	52/SW6	52/SW6	SERVICE WATER PUMP 36 BREAKER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-1190R	PI-1190	SVC WATER NUCL HDR PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PI-1191	PI-1191	SVC WATER NUCL HDR PRESS INDICATOR	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-1190	PT-1190	SVC WATER NUCL HDR PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	NOTE 1	PT-1191	PT-1191	SVC WATER NUCL HDR PRESS TRANSMITTER	YES	NO	NOTE 1	NO		I	No	No					
3	MANUAL VALVE	SWN-4	SWN-4	DISCH HDR X-TIE VALVE	YES	NO	YES[4]	NO		I	No	No				X	
3	MANUAL VALVE	SWN-5	SWN-5	DISCH HDR X-TIE VALVE	YES	NO	YES	NO		I	No	No				X	
3	MANUAL VALVE	SWN-6	SWN-6	ISO VALVE-CONV COOLERS	YES	NO	YES	NO		I	No	No				X	
3	MANUAL VALVE	SWN-7	SWN-7	ISO VALVE-CONV COOLERS	YES	NO	YES	NO		I	No	No				X	
3	MANUAL VALVE	SWN-FCV-1111	SWN-FCV-1111	ISO VALVE-CONV PLANT SERVICES	YES	NO	YES	YES		I	No	No				X	
3	MANUAL VALVE	SWN-FCV-1112	SWN-FCV-1112	ISO VALVE-CONV PLANT SERVICES	YES	NO	YES	YES		I	No	No				X	
3	00 - Other	YM-111	FM-111A	ELECTRO PNEUMATIC CONVERTER	YES	NO	NO	NO		I	No	No					
3	07 - Pneumatic Oper Valves	CH-AOV-246	CH-AOV-246	RCP SEAL NO 1 BY	YES	NO	NO	NO		I	H/T	B					
3	07 - Pneumatic Oper Valves	CH-AOV-261A	CH-AOV-261A	31 RCP SEAL DISCHARGE	YES	NO	NO	NO		I	H/T	B					
3	07 - Pneumatic Oper Valves	CH-AOV-261B	CH-AOV-261B	32 RCP SEAL DISCHARGE	YES	NO	NO	NO		I	H/T	No					
3	07 - Pneumatic Oper Valves	CH-AOV-261C	CH-AOV-261C	33 RCP SEAL DISCHARGE	YES	NO	NO	NO		I	H/T	No					
3	07 - Pneumatic Oper Valves	CH-AOV-261D	CH-AOV-261D	34 RCP SEAL DISCHARGE	YES	NO	NO	NO		I	H/T	No					
3	07 - Pneumatic Oper Valves	CH-TCV-149	CH-TCV-149	DEMIN BY	YES	NO	NO	NO		I	No	No					
3	07 - Pneumatic Oper Valves	HS-PCV-1042	PCV-1042	HY	YES	NO	NO	NO		I	No	No					
3	07 - Pneumatic Oper Valves	RC-523	RC-523	PRT DRAIN VALVE	YES	NO	NO	NO		I	H/T	B					
3	07 - Pneumatic Oper Valves	RC-544	RC-544	REACTOR VESSEL FLANGE LEAK-OFF CTRL VLV	YES	NO	NO	NO		I	H/T	B					
3	07 - Pneumatic Oper Valves	RC-560	RC-560	PRT SPRAY	YES	NO	NO	NO		I	H/T	No					
3	07 - Pneumatic Oper Valves	RC-AOV-519	RC-519	PRIMARY	YES	NO	NO	NO		I	H/T	No					

[2]SWN-4, 5, 6, 7, 1111 and 1112 are manual valves that are required to be closed during recirculation to assure sufficient flow to the CCW Heat Exchangers

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	07 - Pneumatic Oper Valves	RC-AOV-549	RC-549	PRESS RELIEF GAS ANALY	YES	NO	NO	NO		I	H/T	No					
3	07 - Pneumatic Oper Valves	RC-AOV-552	RC-552	PRIMARY	YES	NO	NO	NO		I	H/T	No					
3	07 - Pneumatic Oper Valves	RC-PCV-473	PCV-473	N2 SUPPLY	YES	NO	NO	YES		I	H/T	No					
3	07 - Pneumatic Oper Valves	SP-AOV-953	SP-AOV-953	PRESSURIZER LIQUID SPACE SAMPLE VALVE	YES	NO	NO	NO		I	H/T	B					
3	07 - Pneumatic Oper Valves	SP-AOV-955A	SP-AOV-955A	HOT LEG LOOP 1 (RCS) SAMPLE VALVE	YES	NO	NO	YES		I	H/T	B					
3	07 - Pneumatic Oper Valves	SP-AOV-955B	SP-AOV-955B	HOT LEG LOOP 3 (RCS) SAMPLE VALVE	YES	NO	NO	YES		I	H/T	B					
3	07 - Pneumatic Oper Valves	SP-AOV-956C	SP-AOV-956C	PRESSURIZER STEAM SAMPLE ISOLATION VALVE	YES	NO	NO	YES		I	H/T	B					
3	07 - Pneumatic Oper Valves	SP-AOV-956D	SP-AOV-956D	PRESSURIZER STEAM SAMPLE ISOLATION VALVE	YES	NO	NO	YES		I	H/T	B					
3	07 - Pneumatic Oper Valves	SP-AOV-956E	SP-AOV-956E	HOT LEG LOOP 1 & 3 SAMPLE ISOLATION VALVE	YES	NO	NO	YES		I	H/T	B					
3	07 - Pneumatic Oper Valves	SP-AOV-956F	SP-AOV-956F	HOT LEG LOOP 1 & 3 SAMPLE ISOLATION VALVE	YES	NO	NO	YES		I	H/T	B					
3	07 - Pneumatic Oper Valves	SP-AOV-958	SP-AOV-958	RHR LOOP SAMPLE ISOLATION VALVE	YES	NO	NO	NO		I	No	B					
3	07 - Pneumatic Oper Valves	SP-AOV-959	SP-AOV-959	RHR LOOP SAMPLE ISOLATION VALVE	YES	NO	NO	NO		I	H/T	B					
3	08 - MOVs and SOVs		CH-SOV-265	VCT GAS ANALY	YES	NO	NO	YES		I	No	No					
3	08 - MOVs and SOVs		CH-SOV-268	VCT VENT ISO VALVE	YES	NO	NO	YES		I	No	No					
3	08 - MOVs and SOVs	CH-SOV-246	SOV-246-1	CH-AOV-246 SOLENOID VALVE	YES	NO	NO	YES		I	H/T	No					
3	08 - MOVs and SOVs	CH-SOV-261A	SOV-261A-1	CH-AOV-261A SOLENOID VALVE	YES	NO	NO	NO		I	H/T	No					
3	08 - MOVs and SOVs	CH-SOV-261B	SOV-261B-1	CH-AOV-261B SOLENOID VALVE	YES	NO	NO	NO		I	H/T	No					
3	08 - MOVs and SOVs	CH-SOV-261C	SOV-261C-1	CH-AOV-261C SOLENOID VALVE	YES	NO	NO	NO		I	H/T	No					
3	08 - MOVs and SOVs	CH-SOV-261D	SOV-261D-1	CH-AOV-261D SOLENOID VALVE	YES	NO	NO	NO		I	H/T	No					
3	08 - MOVs and SOVs	IA-SOV-1142	SOV-1142-1	PCV-1142 SOLENOID VALVE	YES	NO	NO	NO		I	No	No					
3	08 - MOVs and SOVs	RC-SOV-519	SOV-519-1	RC-519 SOLENOID VALVE	YES	NO	NO	NO		I	H/T	No					
3	08 - MOVs and SOVs	RC-SOV-523	SOV-523-1	RC-523 SOLENOID VALVE	YES	NO	NO	NO		I	H/T	No					
3	08 - MOVs and SOVs	RC-SOV-544	SOV-544-1	RC-544 SOLENOID VALVE	YES	NO	NO	YES		I	H/T	No					
3	08 - MOVs and SOVs	RC-SOV-549-1	SOV-549-1	RC-549 SOLENOID VALVE	YES	NO	NO	NO		I	H/T	No					
3	08 - MOVs and SOVs	RC-SOV-552	SOV-552-1	RC-552 SOLENOID VALVE	YES	NO	NO	NO		I	H/T	No					
3	08 - MOVs and SOVs	RC-SOV-560	SOV-560-1	RC-560 SOLENOID VALVE	YES	NO	NO	NO		I	H/T	No					
3	08 - MOVs and SOVs	SP-AOV-956D-SOV-1	SP-SOV-956D-1	SAMPLE ISOLATION VALVES & IVSWS SOLENOID VALVE	YES	NO	NO	NO		I	No	B					
3	08 - MOVs and SOVs	SP-AOV-958-SOV	SOV-958-1	RHR SAMPLE LINE VALVE	YES	NO	NO	NO		I	No	B					
3	08 - MOVs and SOVs	SP-SOV-953	SP-SOV-953	PRESSURIZER LIQUID SPACE SAMPLE VALVE SOLENOID VALVE	YES	NO	NO	NO		I	No	No					
3	08 - MOVs and SOVs	SP-SOV-955A-1	SP-SOV-955A-1	HOT LEG LOOP 1 SAMPLE VALVE SOLENOID VALVE	YES	NO	NO	NO		I	No	No					
3	08 - MOVs and SOVs	SP-SOV-955B-1	SP-SOV-955B-1	HOT LEG LOOP 3 SAMPLE VALVE SOLENOID VALVE	YES	NO	NO	NO		I	No	No					
3	08 - MOVs and SOVs	SP-SOV-956C-1	SP-SOV-956C-1	SAMPLE ISOLATION VALVES & IVSWS SOLENOID VALVE	YES	NO	NO	NO		I	No	No					
3	08 - MOVs and SOVs	SP-SOV-956F-1	SP-SOV-956F-1	SAMPLE ISOLATION VALVES & IVSWS SOLENOID VALVE	YES	NO	NO	NO		I	No	No					
3	08 - MOVs and SOVs	SP-SOV-956G	SP-SOV-956G	ACC SAMPLE LINE ISOLATION VALVES & IVSWS SOLENOID	YES	NO	NO	NO		I	No	No					
3	08 - MOVs and SOVs	SP-SOV-959-1	SOV-959-1	RHR SAMPLE LINE VALVE	YES	NO	NO	NO		I	No	B					
3	09 - Fans	31 CRDM FAN	31CRDF	CRD COOLING FAN	YES	NO	NO	NO		I	H/T	No					
3	09 - Fans	32 CRDM FAN	32CRDF	CRD COOLING FAN	YES	NO	NO	NO		I	H/T	No					

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	09 - Fans	33 CRDM FAN	33CRDF	CRD COOLING FAN	YES	NO	NO	NO		I	H/T	No					
3	09 - Fans	34 CRDM FAN	34CRDF	CRD COOLING FAN	YES	NO	NO	NO		I	H/T	No					
3	19 - Temperature Sensors	TE-471	TE-471	PRT TEMP ELEMENT	YES	NO	NO	NO		I	H/T	No					
3	20 - Instru and Control Pnls		PNL PF6	GAS ANALY	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	LP-324	PNL 324	LIGHTING PANEL 324	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls		SUPERVISORY	SUPERVISORY	YES	NO	NO	YES		I	No	No					
3	20 - Instru and Control Pnls		RACK E-7	RPS	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls		RACK F-7	RPS	YES	NO	NO	YES		I	No	No					
3	20 - Instru and Control Pnls	RACK D-2	RACK D-2	CCR RK "D2" (RAD MONITOR R-11, 15 AND RAD RECORDERS)	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	RACK D-3	RACK D-3	CCR RK "D3" (RAD MONITORS R-16,17A,17B,18,19,23)	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	RACK G-4	RACK G-4	CCR PNL "G4" (CNTMNT BLDG PERSON LOCK AND PRESS GAUGE SOV'S)	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	RACK G-6	RACK G-6	CCR RK "G6" (CNTMNT BLDG PERSON LOCK AND PRESS GAUGE SOV'S)	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	RACK H-2	RACK H-2	OPS Relays - CCR	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	RACK#20	RACK 20	FLOW TRANSMITTER RACK	YES	NO	NO	YES		I	H/T	No					
3	20 - Instru and Control Pnls		PNL #3	SAMPLING SY	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls		PNL #4	SAMPLING SY	YES	NO	NO	NO		I	No	No					
3	21 - Tanks / Heat Exchangers	PL31PSSHX	31 PLSSHTX	31 PZR LIQ SPACE SAMPLE HTX	YES	NO	NO	NO		I	H/T	B					
3	21 - Tanks / Heat Exchangers	PL32PSSHX	32 PLSSHTX	32 PZR LIQ SPACE SAMPLE HTX	YES	NO	NO	NO		I	H/T	B					
3	21 - Tanks / Heat Exchangers	RC31PSSHX	31 RCSSHTX	31 RCS SAMPLE HTX	YES	NO	NO	NO		I	H/T	No					
3	21 - Tanks / Heat Exchangers	RC32PSSHX	32 RCSSHTX	32 RCS SAMPLE HTX	YES	NO	NO	NO		I	H/T	No					
3	21 - Tanks / Heat Exchangers	ACCUM 31		31 SIS Accumulator	YES	NO	YES	NO		I	T	YES	X			X	
3	21 - Tanks / Heat Exchangers	ACCUM 32		32 SIS Accumulator	YES	NO	YES	NO		I	T	YES	X			X	
3	18 - Instrument Racks		RACK 24A	TRANSMITTER RACK – RAD MONITORS - CCR	YES	NO	NO	NO		I	H/T	No					
3	18 - Instrument Racks	RACK #26	RACK 26	PRESS TRANSMITTER RACK #26 – AFW (AFW Bldg 18')	YES	NO	YES	NO		I	H/T	No				X	
3	18 - Instrument Racks	RACK #8	RACK 8	PRESS TRANSMITTER RACK #8 – AFW (AFW Bldg 18')	YES	NO	YES	NO		I	H/T	No				X	
3	19 - Temperature Sensors	TE-1313	TE-1313	UPPER TAP COMPENSATION TEMP ELEMENT - RVLIS	YES	NO	YES	NO		I	H/T	No			X		
3	19 - Temperature Sensors	TE-1314	TE-1314	UPPER TAP COMPENSATION TEMP ELEMENT - RVLIS	YES	NO	YES	NO		I	H/T	No			X		
3	19 - Temperature Sensors	TE-1323	TE-1323	UPPER TAP COMPENSATION TEMP ELEMENT - RVLIS	YES	NO	YES	NO		I	H/T	No			X		
3	19 - Temperature Sensors	TE-1324	TE-1324	UPPER TAP COMPENSATION TEMP ELEMENT - RVLIS	YES	NO	YES	NO		I	H/T	No			X		
3	20 - Instru and Control Pnls		PNL PY	DELUGE SY - Transformer	YES	NO	NO	NO		I	H/T	No					
3	20 - Instru and Control Pnls		PNL PY	DELUGE SY - Transformer	YES	NO	NO	NO		I	H/T	No					
3	20 - Instru and Control Pnls		PNL PY	DELUGE SY - Transformer	YES	NO	NO	NO		I	H/T	No					
3	20 - Instru and Control Pnls		PNL PY	DELUGE SY - Transformer	YES	NO	NO	NO		I	H/T	No					
3	20 - Instru and Control Pnls	RACK (B-11)	RACK B-11	RPS	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK 1 (A-4)	RACK A-4	CCR RK'S "A1" AND "A4" (RCS/ANALOG CH I)	YES	NO	YES	NO		I	No	No	X	X	X		

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 1 BASE LIST

Accm UNIT	Types of Equipment (EPRI Equipment Class)	CURRENT EQUIPMENT ID	ORIGINAL SSEL EQUIP ID	SSEL EQUIPMENT DESCRIPTION	SCREEN 1	SCREEN 2	SCREEN 3	SCREEN 4					Five Safety Functions				
					Seismic 1	Undergo Regular Configuration Inspections	Maintains at least one of the 5 Safety Functions	Replaced	IPEEE	Environment			Reactivity Control	Pressure Control	Inventory Control	Decay Heat Removal	Containment
										Inside/ Outside (I / O)	High Temp / Humidity (T / H)	Borated System					
3	20 - Instru and Control Pnls	RACK 10 (B-2)	RACK B-2	CCR RKS "B1" "B2" AND "B3" (RCS/ANALOG - CH III)	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK 11 (B-1)	RACK B-1	CCR RKS "B1" "B2" AND "B3" (RCS/ANALOG - CH III)	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK 12 (B-10)	RACK B-10	CCR RK'S "B9" AND "B10" (RCS/ANALOG CH IV)	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK 13 (B-9)	RACK B-9	CCR RK'S "B9" AND "B10" (RCS/ANALOG CH IV)	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK 14 (B-8)	RACK B-8	CCR RK'S "B6","B7","B8","D8" (REACTOR TEMP/PRESS AND STM DUMP)	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK 15 (B-7)	RACK B-7	CCR RK'S "B6","B7","B8","D8" (REACTOR TEMP/PRESS AND STM DUMP)	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK 16 (D-8)	RACK D-8	CCR RK'S "B6","B7","B8","D8" (REACTOR TEMP/PRESS AND STM DUMP)	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK 17 (B-6)	RACK B-6	CCR RK'S "B6","B7","B8","D8" (REACTOR TEMP/PRESS AND STM DUMP)	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK 21 (C-10)	RACK C-10	CCR RKS "C9" AND "C10" (CVCS AUX)	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK 4 (A-1)	RACK A-1	CCR RK'S "A1" AND "A4" (RCS/ANALOG CH I)	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK 5 (A-10)	RACK A-10	CCR RKS "A7" AND "A10" (RCS/ANALOG CH II)	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK 8 (A-7)	RACK A-7	CCR RKS "A7" AND "A10" (RCS/ANALOG CH II)	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK 9 (B-3)	RACK B-3	CCR RKS "B1" "B2" AND "B3" (RCS/ANALOG - CH III)	YES	NO	YES	NO		I	No	No	X	X	X		
3	20 - Instru and Control Pnls	RACK C-1	RACK C-1	ROD POSITION DETECTORS AND BISTABLES	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	RACK C-11	RACK C-11	CCR RK "C11" (RCP VIB MONITOR SY	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	RACK C-2	RACK C-2	ROD POSITION DETECTORS AND BISTABLES	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	RACK C-3	RACK C-3	ROD POSITION DETECTORS AND BISTABLES	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	RACK C-4	RACK C-4	ROD POSITION DETECTORS AND BISTABLES	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	RACK C-5	RACK C-5	CCR RK "C5" (REG-NIS)	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK C-6	RACK C-6	CCR RKF "C6" (REG-NIS)	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK C-7	RACK C-7	CCR RK "C7" (REG-NIS)	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK C-8	RACK C-8	CCR RK "C8" (CONT/NIS)	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK D-1	RACK D-1	CCR RK "D1" (RAD MONITORS R-1, 2, 4, 6, 7, 8, 10)	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	RACK D-10	RACK D-10	CCR RK "D10" (GEN MONITOR SY	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	RACK D-11	RACK D-11	CCR RK "D11" (RAD MONITOR R-32, 33, 34A, 34B, 34C 38A, 38B, 38C, 38D)	YES	NO	NO	NO		I	No	No					
3	20 - Instru and Control Pnls	RACK D-4	RACK D-4	NIS FLUX MAPPING CONSOLE	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK D-5	RACK D-5	NIS FLUX MAPPING CONSOLE	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK D-6	RACK D-6	NIS FLUX MAPPING CONSOLE	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK D-7	RACK D-7	NIS FLUX MAPPING CONSOLE	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK D-9	RACK D-9	CCR RK "D9" (NIS MISC INSTR)	YES	NO	YES	NO		I	No	No	X				
3	20 - Instru and Control Pnls	RACK E-1	RACK E-1	CCR RK "E1" (SIS/ANALOG CH II)	YES	NO	YES	NO		I	No	No	X	X	X	X	

NOTE 1: These components are included with components previously identified under equipment classes 18 and 20.

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 2 SWEL1 LIST

SWEL #	EQUIPMENT ID	DESCRIPTION	BLDG	ELEV	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	ANC	DWG
SWEL1-001	SWP32-STRNR-AUTO	32 SWP STRAINER	IS	15'-0"	N.A.			0	I,H	Y	SEE SWEL SHEET
SWEL1-002	SWP34-STRNR-AUTO	34 SWP STRAINER	IS	15'-0"	N.A.			0	I,H	Y	SEE SWEL SHEET
SWEL1-003	MS-1-31	31 S/G MAIN STEAM ISOLATION VALVE	AB	77'-0"	N.A.		MAIN STEAM ISOLATION VALVES	0	I, H, T	N	SEE SWEL SHEET
SWEL1-004	MS-45-4	STEAM GEN 34 SAFETY	AB	77'-0"	N.A.			0	I, H, T	N	SEE SWEL SHEET
SWEL1-005	PCV-1276	IA-PCV-1276 OUTLET CHECK VALVE	AB	18'-6"	N.A.			0	I	Y	SEE SWEL SHEET
SWEL1-006	CO2-CP-1A	CO2 PANEL P7A	DG	15'-0"	N.A.			0	I	Y	SEE SWEL SHEET
SWEL1-007	34MCC	TURBINE GENERATOR BUILDING MOTOR CONTROL CENTER 34	TB	15'-0"	N.A.			1	I	Y	SEE SWEL SHEET
SWEL1-008	31 MCC	INTAKE STRUCTURE MCC	IS	15'-0"	N.A.			1	I,H	N	SEE SWEL SHEET
SWEL1-009	36BMCC	PAB MOTOR CONTROL CENTER 36B	PA	55'-0"	N.A.			1	I	Y	SEE SWEL SHEET
SWEL1-010	38MCC	CONTAINMENT MOTOR CONTROL CENTER 38	VC	68'-0"	N.A.			1	I	N	SEE SWEL SHEET
SWEL1-011	37MCC	PRIMARY AUX BUILDING MCC	PA	55'-0"	N.A.			1	I	N	SEE SWEL SHEET
SWEL1-012	39MCC	CONTROL BUILDING MOTOR CONTROL CENTER 39	CB	33'-0"	N.A.			1	I	N	SEE SWEL SHEET
SWEL1-013	36CMCC	PAB MOTOR CONTROL CENTER 36C	CB	15'-0"	N.A.			1	I	Y	SEE SWEL SHEET
SWEL1-014	SWGR 31	480VAC SWGR 31 (BUS 2A AND BUS 5A)	CB	15'-0"	N.A.			2	I	Y	SEE SWEL SHEET
SWEL1-015	SWGR 32	480VAC SWGR 32 (BUS 3A & BUS 6A)	CB	15'-0"	N.A.			2	I	N	SEE SWEL SHEET
SWEL1-016	52/RTB & 52/RTA	RX TRIP SWITCHGEAR RTA, RTB	CB	33'-0"	N.A.			2	I	N	SEE SWEL SHEET
SWEL1-017	CO2-CP-1B	CO2 PANEL P7B	DG	15'-0"	N.A.			0	I	Y	SEE SWEL SHEET
SWEL1-018	IB 31 BU SOLA XFMR BOTTOM	31 SOLA XFRM	CB	33'-0"	N.A.			4	I	Y	SEE SWEL SHEET
SWEL1-019	IB 32 BU SOLA XFMR BOTTOM	32 SOLA XFRM	CB	33'-0"	N.A			4	I	Y	SEE SWEL SHEET
SWEL1-020	PC TRANS	PRZR HTR BK UP GROUP 31 TRANSFORMER	CB	33'-0"	N.A			4	I	Y	SEE SWEL SHEET
SWEL1-021	31 SI PUMP	31 SAFETY INJECTION PUMP	PA	34'-0"	N.A.			5	I	Y	SEE SWEL SHEET
SWEL1-022	31 ABFP	MOTOR DRIVEN AUX. FEEDWATER PUMP NO. 31	AB	18'-6"	N.A.			5	I	Y	SEE SWEL SHEET
SWEL1-023	32 ABFP	TURBINE DRIVEN AUX. FEEDWATER PUMP NO. 32	AB	18'-6"	N.A.			5	I	Y	SEE SWEL SHEET
SWEL1-024	31 CCW PUMP	CCW PUMP NO 31	PA	41'-0"	N.A.			5	I	Y	SEE SWEL SHEET
SWEL1-025	31 CS PUMP	CONTAINMENT SPRAY PUMP #31	PA	41'-0"	N.A.			5	I,B	Y	SEE SWEL SHEET
SWEL1-026	31 BAST TRANSFER PUMP	BORIC ACID TRANSFER PUMP 31	PA	73'-0"	N.A.			5	I, B	Y	SEE SWEL SHEET
SWEL1-027	32 CHARGING PUMP	NO. 32 CHARGING PUMP	PA	55'-0"	N.A.			5	I, B	Y	SEE SWEL SHEET
SWEL1-028	31 RHR PUMP	31 RHR PUMP	PA	15'-0"	N.A.			6	I, B	N	SEE SWEL SHEET
SWEL1-029	32 RHR PUMP	32 RHR PUMP	PA	15'-0"	N.A.			6	I, H, B	N	SEE SWEL SHEET
SWEL1-030	32 SW PUMP	SERVICE WATER PUMP NO. 32	IS	15'-0"	N.A.			6	I, H	Y	SEE SWEL SHEET
SWEL1-031	36 SW PUMP	SERVICE WATER PUMP NO. 36	IS	15'-0"	N.A.			6	I, H	Y	SEE SWEL SHEET
SWEL1-032	31 DG FUEL XFER PUMP	F.O. TRANSFER PUMP	YD	38'-6"	N.A.			6	O, H	Y	SEE SWEL SHEET
SWEL1-033	32 RECIRC PUMP	32 RECIR PUMP	VC	46'-0"	N.A.			6	I,T	N	SEE SWEL SHEET
SWEL1-034	MS-PCV-1310A	32 ABFP STEAM SUPPLY	AB	43'-0"	N.A.			7	I, H, T	Y	SEE SWEL SHEET
SWEL1-035	MS-PCV-1310B	32 ABFP STEAM SUPPLY	AB	32'-0"	N.A.			7	I, H, T	Y	SEE SWEL SHEET
SWEL1-036	CH-MOV-441	31 RCP SEAL INJ CTMT ISO VLV	PP	41'-0"	N.A.			8	I, B	Y	SEE SWEL SHEET
SWEL1-037	CH-MOV-442	32 RCP SEAL INJ CTMT ISO VLV	PP	41'-0"	N.A.			8	I, B	Y	SEE SWEL SHEET
SWEL1-039	CH-SOV-110A	CH-FCV-110A SOLENOID VALVE	PA	73'-0"	N.A.			8	I	Y	SEE SWEL SHEET
SWEL1-040	CT-SOV-1258-1	COND STORAGE TANK TO CONDENSERS CT-LCV-1158-1 SOLENOID	AB	18'-6"	N.A.			8	I	N	SEE SWEL SHEET
SWEL1-041	MS-SOV-1230	SG#31 MAIN STM ISOLATION VALVE 31 SUPPLY	AB	77'-4"	N.A.			8	I, H, T	N	SEE SWEL SHEET

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS

TABLE 2 SWEL1

SWEL #	EQUIPMENT ID	DESCRIPTION	BLDG	ELEV.	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	ANC	DWG
SWEL1-042	MS-SOV-1231	SG#31 MAIN STM ISOLATION VALVE 31 SUPPLY	AB	77'-4"	N.A.			8	I, H, T	N	SEE SWEL SHEET
SWEL1-043	MS-SOV-1232	SG#31 MAIN STM ISOLATION VALVE 31 EXHAUST SOLENOID	AB	77'-4"	N.A.			8	I, H, T	N	SEE SWEL SHEET
SWEL1-044	MS-SOV-1233	SG#31 MAIN STM ISOLATION VALVE 31 EXHAUST SOLENOID	AB	77'-4"	N.A.			8	I, H, T	N	SEE SWEL SHEET
SWEL1-045	PAB SUPPLY FAN	PRIMARY	PA	41'-0"	N.A.			9	I	Y	SEE SWEL SHEET
SWEL1-046	VC PURGE/PAB EXH 31	31 PAB EXHAUST FAN (31 PABEF)	FB	72'-0"	N.A.			9	I	N	SEE SWEL SHEET
SWEL1-047	34 ELEC TUNL EXH FAN	EL TNL EXHAUST FAN 34 (UPPER)	ET	46'-0"	N.A.			9	I	Y	SEE SWEL SHEET
SWEL1-048	F-313	WALL FAN-313-AB	AB	32'-6"	N.A.			9	I, H, T	Y	SEE SWEL SHEET
SWEL1-049	CRF1	CONTAINMENT RECIRC FAN 31	VC	68'-0"	N.A.			10	I, H, T	Y	SEE SWEL SHEET
SWEL1-050	CRF2	CONTAINMENT RECIRC FAN 32	VC	68'-0"	N.A.			10	I, H, T	Y	SEE SWEL SHEET
SWEL1-051	CRF3	CONTAINMENT RECIRC FAN 33	VC	68'-0"	N.A.			10	I, H, T	Y	SEE SWEL SHEET
SWEL1-052	CRF4	CONTAINMENT RECIRC FAN 34	VC	68'-0"	N.A.			10	I, H, T	Y	SEE SWEL SHEET
SWEL1-053	CRF5	CONTAINMENT RECIRC FAN 35	VC	68'-0"	N.A.			10	I, H, T	Y	SEE SWEL SHEET
SWEL1-054	CCR A.C. UNIT 31	CONTROL ROOM A/C UNIT 31	CB	15'-0"	N.A.			11	I	Y	SEE SWEL SHEET
SWEL1-055	CCR A.C. UNIT 32	CONTROL ROOM A/C UNIT 32	CB	15'-0"	N.A.			11	I	Y	SEE SWEL SHEET
SWEL1-056	31 IA COMPRESSOR	INSTRUMENT AIR COMPRESSOR #31	CB	15'-0"	N.A.			12	I	Y	SEE SWEL SHEET
SWEL1-057	32 IA COMPRESSOR	INSTRUMENT AIR COMPRESSOR #32	CB	15'-0"	N.A.			12	I	Y	SEE SWEL SHEET
SWEL1-058	EDG-32-COMP	32 EDG AIR COMP	DG	15'-0"	N.A.			12	I	Y	SEE SWEL SHEET
SWEL1-059	31MGS-COUP	31 ROD CONTROL MOTOR GENERATOR SET (31 MG SET)	CB	33'-0"	N.A.			13	I	Y	SEE SWEL SHEET
SWEL1-060	32MGS-COUP	32 ROD CONTROL MOTOR GENERATOR SET (32 MG SET)	CB	33'-0"	N.A.			13	I	Y	SEE SWEL SHEET
SWEL1-061	31IB	SINGLE PHASE 118V AC INSTRUMENT BUS 31 CHANNEL II	CB	53'-0"	N.A.			14	I	N	SEE SWEL SHEET
SWEL1-062	32DP	125VDC DISTRIBUTION PANEL 32	CB	53'-0"	N.A.			14	I	Y	SEE SWEL SHEET
SWEL1-063	32PP	125VDC POWER PANEL 32	CB	33'-0"	N.A.			14	I	Y	SEE SWEL SHEET
SWEL1-064	31PP	125VDC POWER PANEL 31	CB	33'-0"	N.A.			14	I	Y	SEE SWEL SHEET
SWEL1-065	BATT 31	BATTERY	CB	33'-0"	N.A.			15	I	Y	SEE SWEL SHEET
SWEL1-066	BATT 32	BATTERY	CB	33'-0"	N.A.			15	I	Y	SEE SWEL SHEET
SWEL1-067	BATT 33	BATTERY	DG	15'-0"	N.A.			15	I	Y	SEE SWEL SHEET
SWEL1-068	BATT 34	BATTERY	CB	33'-0"	N.A.			15	I	Y	SEE SWEL SHEET
SWEL1-069	BATT CHGR 31	BATTERY	CB	33'-0"	N.A.			16	I	Y	SEE SWEL SHEET
SWEL1-070	BATT CHGR 32	BATTERY	CB	33'-0"	N.A.			16	I	Y	SEE SWEL SHEET
SWEL1-071	BATT CHGR 33	BATTERY	CB	15'-0"	N.A.			16	I	Y	SEE SWEL SHEET
SWEL1-072	BATT CHGR 34	BATTERY	CB	33'-0"	N.A.			16	I	Y	SEE SWEL SHEET
SWEL1-073	31 INVERTER	STATIC INVERTER 31	CB	33'-0"	N.A.			16	I	Y	SEE SWEL SHEET
SWEL1-074	32 INVERTER	STATIC INVERTER 32	CB	33'-0"	N.A.			16	I	Y	SEE SWEL SHEET
SWEL1-075	33 INVERTER	STATIC INVERTER 33	CB	33'-0"	N.A.			16	I	Y	SEE SWEL SHEET
SWEL1-076	DG-31	DIESEL GEN NO. 31	DG	15'-0"	N.A.			17	I	Y	SEE SWEL SHEET
SWEL1-077	DG-32	DIESEL GEN NO 32	DG	15'-0"	N.A.			17	I	Y	SEE SWEL SHEET
SWEL1-078	DG-33	DIESEL GEN NO. 33	DG	15'-0"	N.A			17	I	Y	SEE SWEL SHEET
SWEL1-079	RACK#19	PRESSURIZER LEVEL TRANSMITTER CABINET	VC	68'-0"	N.A.			18	I, H, T, B	Y	SEE SWEL SHEET
SWEL1-080	RACK#21	STEAM GENERATORS LEVEL TRANSMITTER	VC	68'-0"	N.A.			18	I, H, T	Y	SEE SWEL SHEET
SWEL1-081	RACK#9	MAIN STM PRESS TRANSMITTER RACK	AB	18'-6"	N.A.			18	I, H, T	Y	SEE SWEL SHEET

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS

TABLE 2 SWEL1

SWEL #	EQUIPMENT ID	DESCRIPTION	BLDG	ELEV	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	ANC	DWG
SWEL1-082	RACK#4A	SG #31 & #32 MAIN STM FLOW TRANSMITTER RACK	VC	68'-0"	N.A.			18	I, H, T	Y	SEE SWEL SHEET
SWEL1-083	RACK#4B	SG #33 & #34 MAIN STM FLOW TRANSMITTER RACK	VC	68'-0"	N A.			18	I, H, T, B	Y	SEE SWEL SHEET
SWEL1-084	TE-130	NON REGHX OUTLET LETDOWN TEMP ELEMENT	PA	73'-0"	N.A.			19	I, B	N	SEE SWEL SHEET
SWEL1-085	TE-122	EXCESS LETDOWN TEMP ELEMENT	VC	46'-0"	N.A.			19	I, B	N	SEE SWEL SHEET
SWEL1-086	AFWP32-LOC-PNL	AUX BOILER FEED PMP CONTROL STATION	AB	18'-6"	N.A.			20	I	N	SEE SWEL SHEET
SWEL1-087	PL6	CHARGING PUMPS SPEED CONTROL PANEL	PA	55'-0"	N A.			20	I	N	SEE SWEL SHEET
SWEL1-088	PI1	31 EDG PNEU CONTROL PANEL	DG	15'-0"	N.A.			20	I	N	SEE SWEL SHEET
SWEL1-089	HJ9	33/34 ETEF LOCAL CTRL STATION	CB	33'-0"	N.A.			20	I	N	SEE SWEL SHEET
SWEL1-090	HA7	COMPRESSOR 32 CONTROL STATION	CB	15'-0"	N.A.			20	I	N	SEE SWEL SHEET
SWEL1-091	ADV	ATM STEAM DUMP PANEL #1	AB	43'-0"	N.A.			20	I, H, T	Y	SEE SWEL SHEET
SWEL1-092	ACATCC1	CC SURGE TANK #31	PA	73'-0"	N.A.			20	I	Y	SEE SWEL SHEET
SWEL1-093	CSATBA2	BORIC ACID STG TANK 32 (32BAT)	PA	73'-0"	N A.			21	I, B	Y	SEE SWEL SHEET
SWEL1-094	RWST-31	REFUEL WTR STORAGE TANK (31RWST)	YD	80'-0"	N.A.			21	O, B	Y	SEE SWEL SHEET
SWEL1-095	COND STOR TK	CONDENSATE STOR TANK (31 CST)	YD	69'-0"	N.A.			21	I	Y	SEE SWEL SHEET
SWEL1-096	EDG-31-FO-DTNK	F.O. DAY (31 EDG)	DG	26'-0"	N.A.			21	I	Y	SEE SWEL SHEET
SWEL1-097	CSAHNRT	NON REGEN HEAT EXCH NO 31	PA	73'-0"	N.A.			21	I, B	Y	SEE SWEL SHEET
SWEL1-098	ACAHCC1	COMPONENT COOLING WATER HEAT EXCHANGER NO. 31	PA	55'-0"	N A.			21	I, H, T	Y	SEE SWEL SHEET
SWEL1-099	IACCHT	32 IAC INST AIR CC HEX	CB	15'-0"	N.A.			21	I	Y	SEE SWEL SHEET
SWEL1-100	EDG-32-AR-TNK	AIR RECEIVER 30 GAL. TANK # 32 (32ART)	DG	15'-0"	N.A.			21	I	N	SEE SWEL SHEET
SWEL1-101	ACCUM 31	31 SIS ACCUMULATOR	VC	46'-0"	N.A.			21	I,T,B	N	SEE SWEL SHEET
SWEL1-102	ACCUM 32	32 SIS ACCUMULATOR	VC	46'-0"	N.A			21	I,T,B	N	SEE SWEL SHEET

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 3 SWEL 2 BASE LIST

BL2#	EQUIPMENT ID	DESCRIPTION	BLDG.	ELEV.	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	N/R
2-3-1	ACAPPW1	Refueling Water Purification 31 Pump and Motor	PAB	41	Not Listed	Not Listed	N/A to BL 2	5	IB	
2-3-2	SFPC-31PP	Spent Fuel Pit Pump 31 and Motor	FSB	55	Not Listed	Not Listed	N/A to BL 2	5	IB	
2-3-3	SFPC-32PP	Spent Fuel Pit Pump 32 and Motor	FSB	55	Not Listed	Not Listed	N/A to BL 2	5	IB	
2-3-4	ACAHSFI	Spent Fuel Pit Heat Exchanger	FSB	55	Not Listed	Not Listed	N/A to BL 2	21	IB	
2-3-5	N/A	Reactor Cavity Drain Filter (Temporary Equipment)	FSB	55	N/A	N/A	N/A to BL 2	0		
2-3-6	PUMP #31 PRIMARY LOOP	BUSFPC Primary Loop Pump 31	FSB	95	Not Listed	Not Listed	N/A to BL 2	5	IB	
2-3-7	PUMP #32 PRIMARY LOOP	BUSFPC Primary Loop Pump 32	FSB	95	Not Listed	Not Listed	N/A to BL 2	5	IB	
2-3-8	BSFPC Plate Heat Exchanger	BUSFPC Paraflow Plate Heat Exchanger	FSB	95	Not Listed	Not Listed	N/A to BL 2	21	IB	
2-3-9	ACAPSKI	Spent Fuel Pool Skimmer Pump 31	FSB	95	Not Listed	Not Listed	N/A to BL 2	5	IB	
2-3-10	ACDMSF1	Spent Fuel Pit Demineralizer 31	PAB	34	Not Listed	Not Listed	N/A to BL 2	21	IB	
2-3-11	ACFLSF1	Spent Fuel Pit Filter 31	PAB	15	Not Listed	Not Listed	N/A to BL 2	0	IB	
2-3-12	SFPB Bridge Crane	Spent Fuel Pit Bridge Crane	FSB	95	Not Listed	Not Listed	N/A to BL 2	0	I	
2-3-13	FSB Crane	Fuel Storage Building 40/5 Ton Crane	FSB	137	Not Listed	Not Listed	N/A to BL 2	0	I	

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 4 SWEL2 RAPID DRAW-DOWN LIST

RDD#	DESCRIPTION	BASIS FOR INCLUSION/EXCLUSION	RDD
R-3-01	Fuel Transfer Tube Blind Flange (IP3)	Excluded. Routinely disassembled, inspected and reassembled every refueling. Additionally, excluded per FAQ 3.17.	Y
R-3-02	Fuel Transfer Canal Weir Gate (IP3)	Excluded. Routinely inspected every refueling. Additionally, excluded per FAQ 3.16.	Y

ATTACHMENT B – SEISMIC WALKDOWN EQUIPMENT LISTS
TABLE 5 SWEL2

SWEL#	EQUIPMENT ID	DESCRIPTION	BLDG.	ELEV.	ROOM	TRAIN	SYSTEM TYPE	CLASS	ENVIRONMENT	N/R	RDD
SWEL2-001	ACAPPW1	Refueling Water Purification 31 Pump and Motor	PA	41	N.A.	Not Listed	N/A to BL 2	5	IB		N/A
SWEL2-002	SFPC-31PP	Spent Fuel Pit Pump 31 and Motor	FS	55	N.A.	Not Listed	N/A to BL 2	5	IB		N/A
SWEL2-003	SFPC-32PP	Spent Fuel Pit Pump 32 and Motor	FS	55	N.A.	Not Listed	N/A to BL 2	5	IB		N/A
SWEL2-004	ACAHSFI	Spent Fuel Pit Heat Exchanger	FS	55	N.A.	Not Listed	N/A to BL 2	21	IB		N/A
SWEL2-005	PUMP #31 PRIMARY LOOP	BUSFPC Primary Loop Pump 31	FS	95	N.A.	Not Listed	N/A to BL 2	5	IB		N/A
SWEL2-006	PUMP #32 PRIMARY LOOP	BUSFPC Primary Loop Pump 32	FS	95	N.A.	Not Listed	N/A to BL 2	5	IB		N/A
SWEL2-007	BSFPC Plate Heat Exchanger	BUSFPC Paraflow Plate Heat Exchanger	FS	95	N.A.	Not Listed	N/A to BL 2	21	IB		N/A
SWEL2-008	SFPB Bridge Crane	Spent Fuel Pit Bridge Crane	FS	95	N.A.	Not Listed	N/A to BL 2	0	I		N/A
SWEL2-009	FSB Crane	Fuel Storage Building 40/5 Ton Crane	FS	137	N.A.	Not Listed	N/A to BL 2	0	I		N/A

Indian Point Units 3

Seismic Walkdown Equipment List Approval

Prepared by: Richard Hoggan Date: 11/8/12
Equipment Selection Personnel

Tom Panagotidi 11/07/2012
Reviewed by: Kenneth L Nutmans Date: 10/25/2012
Peer Reviewer

Concurrence by: Date: 11/7/12
Operations Personnel

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-001

Equipment ID No. *SWP32-STRNR-AUTO* Equip. Class[1] *0*

Equipment Description *32 SWP STRAINER*

Location: Bldg. *IS* Floor El. *15'-0"* Room, Area

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☐

   Yes the anchorage configuration verification is required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-001

Equipment ID No. *SWP32-STRNR-AUTO* Equip. Class[1] *0*

Equipment Description *32 SWP STRAINER*

5. Is the anchorage configuration consistent 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☐

   Yes, the anchorage configuration is consistent with plant documentation.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   There are scaffolds in the area which have green tags. Acceptable. Yes, soft targets are free from impact by nearby equipment or structures.

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

   Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment. Grating which forms the ceiling of the room is well secured to the support steel.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-001

Equipment ID No. *SWP32-STRNR-AUTO* Equip. Class[1] *0*

Equipment Description *32 SWP STRAINER*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References;
IP3-456-0033 Sheet 1 as modified by DRN 07-02958
9321-F-20113-13 Intake Structure General Arrangement, Plan
AWC-036

Evaluated by: *Stephen Yuan* Date: *10/23/2012*

Paul Huebsch Date: *10/23/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

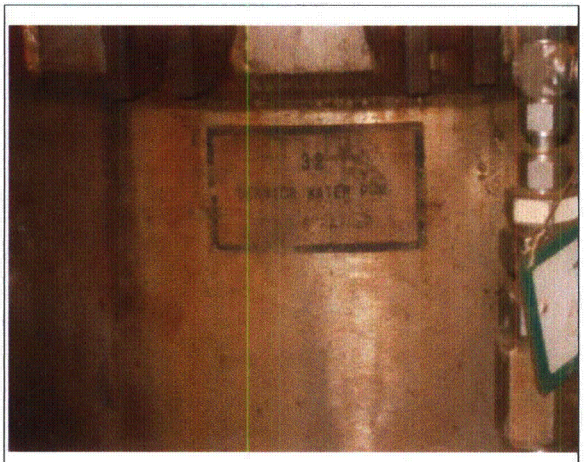
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-001

Equipment ID No. *SWP32-STRNR-AUTO* Equip. Class[1] *0*

Equipment Description *32 SWP STRAINER*

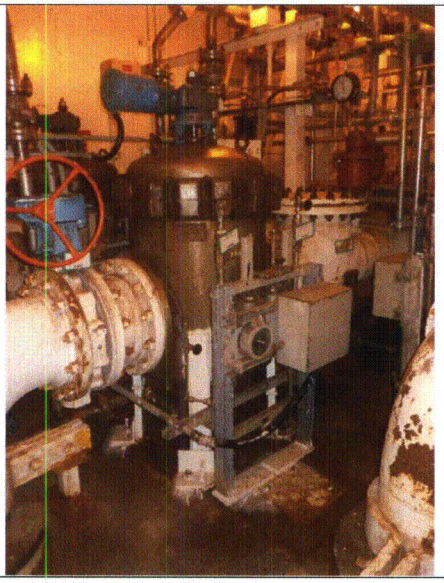
Photographs



Note: *Name tag*

Note:

Note: *View of equipment*



Note: *View of equipment*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-002

Equipment ID No. *SWP34-STRNR-AUTO* Equip. Class[1] *0*

Equipment Description *34 SWP STRAINER*

Location: Bldg. *IS* Floor El. *15'-0"* Room, Area

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☐

   Yes the anchorage configuration verification is required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 5 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-002

Equipment ID No. *SWP34-STRNR-AUTO* Equip. Class[1] *0*

Equipment Description *34 SWP STRAINER*

5. Is the anchorage configuration consistent 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☐

   Yes, the anchorage configuration is consistent with plant documentation.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   There are scaffolds in the area which have green tags. Acceptable. Yes, soft targets are free from impact by nearby equipment or structures.

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

   Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment. Grating which forms the ceiling of the room is well secured to the support steel.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 5 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-002

Equipment ID No. *SWP34-STRNR-AUTO* Equip. Class[1] *0*

Equipment Description *34 SWP STRAINER*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References;
IP3V-456-0033 Sheet 1 Rev 4 as modified by EC 5000039453
9321-F-20113-13 Intake Structure General Arrangement, Plan
AWC-036

Evaluated by: *Stephen Yuan* Date: *10/23/2012*

Paul Huebsch Date: *10/23/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 5 **IP3**

Status: Y☒ N☐ U☐

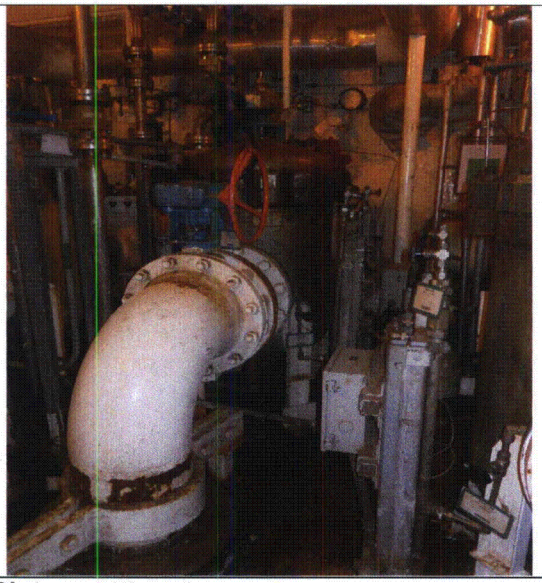
Seismic Walkdown Checklist (SWC) SWEL1-002

Equipment ID No. *SWP34-STRNR-AUTO* Equip. Class[1] *0*

Equipment Description *34 SWP STRAINER*

Photographs

Note: *Name tag*



Note: *View of equipment*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 5 of 5 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-002

Equipment ID No. *SWP34-STRNR-AUTO* Equip. Class[1] *0*

Equipment Description *34 SWP STRAINER*

Note: *View of equipment*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-003

Equipment ID No. *MS-1-31* Equip. Class[1] *0*

Equipment Description *31 S/G MAIN STEAM ISOLATION VALVE*

Location: Bldg. *AFB* Floor El. *73'-8"* Room, Area

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 valve is in-line and there is a spring hanger on the adjacent pipe with support on a steel beam – not part of the anchorage configuration verification.

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

   The anchorage is free of bent, broken, missing or loose hardware considering the spring hanger as the anchorage.

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

   The anchorage is free of corrosion that is more than mild surface oxidation.

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

   Not applicable since the anchorage is attached to steel.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-003

Equipment ID No. *MS-1-31* Equip. Class[1] *0*

Equipment Description *31 S/G MAIN STEAM ISOLATION VALVE*

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

   Not applicable since is not part of the anchorage configuration verification.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   A fluorescent lighting fixture touches the hanger but is judged not to have an adverse seismic affect due to the minor mass of the light compared to the mass of the valve and hanger. In a seismic event, the light fixture would impact the side of the hanger and result in a lateral loading on the hanger. Again, due to the minimum mass of the light fixture, this is not considered to be capable of causing a detrimental affect on the support. CR-IP3-2012-03457 tracks the resolution.

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

   Attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-003

Equipment ID No. *MS-1-31* Equip. Class[1] *0*

Equipment Description *31 S/G MAIN STEAM ISOLATION VALVE*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
9321-F-13533-5 Shield Wall Area, Pipe Platform Framing Plans, Elevations 71'-3 1/8" to 78'-8"
9321-F-20503-15 Yard Area – West of Containment Building, Sections and Elevations, Sheet 2
IP3V-41-6.10-0002 R1 28" OD Pipe Main Steam Stop Valve
9321-F-20173 R71 Flow Dagram, Main Steam
IP3V-41-0005 R1
9321-F-23383-7 Yard Area, Restraint and Support Design, Lines 2, Sh 2, 1020 and 1021
21083-H Sheet 1 of 2 (no title)
IP3V-41.6.10-0003 R1 28" Main Steam Isolation Valve 28xP36
9321-H-20328 R1 Auxilliary Feedwater Building, Air Supply Piping to MS-1-31, MS-1-32, MS1-33, MS1-34
9321-F-21093-8 Yard Area – West of Containment Building, Details and Assembly of Pipe Restraints For Main Steam, Piping – Sheet No.2
9321-F-21083-8 Yard Area – West of Containment Building, Details and Assembly of Pipe Restraints For Main Steam, Piping – Sheet No.1
AWC-017

Evaluated by: *Stephen Yuan* Date: *10/17/2012*

Paul Huebsch Date: *10/17/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

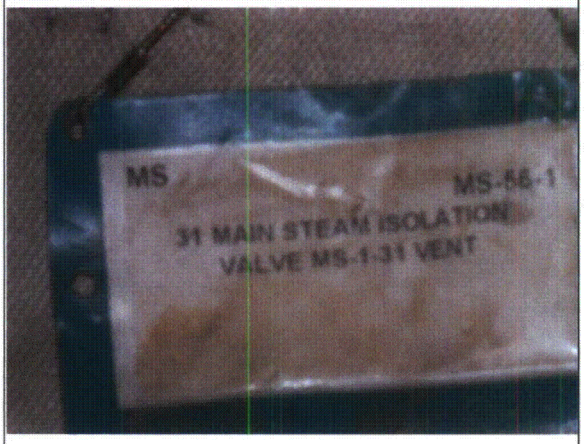
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-003

Equipment ID No. *MS-1-31* Equip. Class[1] *0*

Equipment Description *31 S/G MAIN STEAM ISOLATION VALVE*

Photographs



Note: *Vent tag at top of valve*

Note: *Overview*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-004

Equipment ID No. *MS-45-4* Equip. Class[1] *0*

Equipment Description *STEAM GEN 34 SAFETY*

Location: Bldg. *AFB* Floor El. *61'-0"* Room, Area

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☒

   No, the anchorage configuration verification is not required. This is an in-line valve with a spring hanger immediately adjacent. The spring hanger is treated as the anchorage.

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

   The anchorage is free of bent, broken, missing or loose hardware.

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

   The anchorage is free of corrosion that is more than mild surface oxidation.

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

   The spring hanger is supported by structural steel.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-004

Equipment ID No. *MS-45-4* Equip. Class[1] *0*

Equipment Description *STEAM GEN 34 SAFETY*

5. Is the anchorage configuration consistent 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☒

   Not applicable since the anchorage configuration verification is not required.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   This is not considered to be a soft target.

8. Are 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 equipment, distribution systems, ceiling tiles and lighting are not likely to collapse onto the equipment.

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

   Attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-004

Equipment ID No. *MS-45-4* Equip. Class[1] *0*

Equipment Description *STEAM GEN 34 SAFETY*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
9321-F-20493-17 Yard Area – West of Containment Building, Main Steam Piping, Plan, Sheet No. 1
AWC-016

Evaluated by: *Stephen Yuan* Date: *10/17/2012*

Paul Huebsch Date: *10/17/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-004

Equipment ID No. *MS-45-4* Equip. Class[1] *0*

Equipment Description *STEAM GEN 34 SAFETY*

Photographs

Note: *MS-45-4*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-005

Equipment ID No. *PCV-1276* Equip. Class[1] *0*

Equipment Description *IA-PCV-1276 OUTLET CHECK VALVE*

Location: Bldg. *AFB* Floor El. *18'-6"* Room, Area

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☐

   Yes, check the anchorage.

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

   The anchorage is free of bent, broken, missing or loose hardware.

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

   The anchorage is free of corrosion that is more than mild surface oxidation.

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

   The anchorage is free of visible cracks in the concrete near the anchors.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-005

Equipment ID No. *PCV-1276* Equip. Class[1] *0*

Equipment Description *IA-PCV-1276 OUTLET CHECK VALVE*

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

   The anchorage is consistent with that shown on drawing 9321-L-11196 R1, sheet 5 of 13.

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

   The anchorage is free of adverse seismic conditions.

Interaction Effects

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

   PCV-1276 is free from impact by nearby equipment and structures.

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

   Overhead equipment, distribution systems, ceiling tiles and lighting are not likely to collapse onto the equipment.

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

   Attached lines have adequate flexibility to avoid damage.

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

    Equipment is free of adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-005

Equipment ID No. *PCV-1276* Equip. Class[1] *0*

Equipment Description *IA-PCV-1276 OUTLET CHECK VALVE*

Other Adverse Conditions

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

There was scaffolding in the area which extended over the valve. Scaffold was noted as 4379 assembly with a green tag which indicated engineering evaluation was completed.

Comments (Additional pages may be added as necessary)

References:
9321-F-21543 R0 Alteration of Aux. Boiler Feed Pump Room IA Nitorgen Back-up Piping
9321-L-11196 R1 sh 5 of 13 ABFP Room 1A/N2 Back-up Piping, Auxilliary Boiler Feed Pump Building Support IA-R-093-G, Civil
9321-F-70533-24 Auxilary Boiler Feed Pump Room Instrument Piping – Sheet No. 2, Instrumentation AWC-012

Evaluated by: *Paul Huebsch* Date: *10/12/12*

Maggie Farah Date: *10/12/12*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

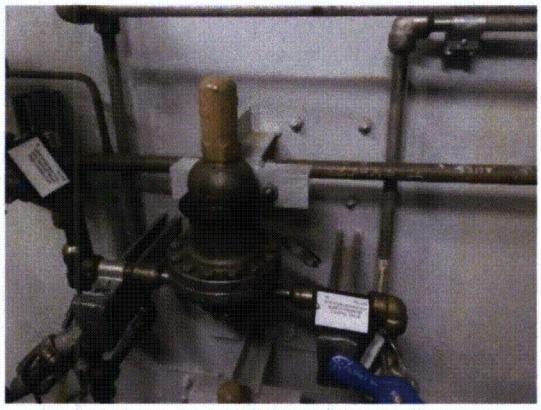
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-005

Equipment ID No. *PCV-1276* Equip. Class[1] *0*

Equipment Description *IA-PCV-1276 OUTLET CHECK VALVE*

Photographs



Note: *PCV-1276*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-006

Equipment ID No. *CO2-CP-1A* Equip. Class[1] *0*

Equipment Description *CO2 PANEL*

Location: Bldg. *DG* Floor El. *15'-0"* Room, Area

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☐

   Yes, check the anchorage.

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

   The anchorage is free of bent, broken, missing and loose hardware.

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

   The anchorage is free of corrosion.

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

   The anchorage is free of cracks in the concrete at the location of the anchorage.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-006

Equipment ID No. *CO2-CP-1A* Equip. Class[1] *0*

Equipment Description *CO2 PANEL*

5. Is the anchorage configuration consistent 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 anchorage is consistent with drawing 9321-LL-11049, Sheet 4.

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

   The anchorage is free of adverse seismic conditions.

Interaction Effects

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

   There is one wall mounted light approximately 3 feet from component which does not have a guard. It is judged that the separation precludes the light from having a seismic interaction with the panel.

8. Are 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 equipment, distribution systems, ceiling tiles and lighting are not likely to collapse onto the equipment.

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

   Attached lines have adequate flexibility to avoid damage.

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

    Equipment is free of adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-006

Equipment ID No. *CO2-CP-1A* Equip. Class[1] *0*

Equipment Description *CO2 PANEL*

Other Adverse Conditions

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

Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

Potential discharge of CO2 in the EDG if cabinet is opened therefore, this panel will not have the internals examined.

References:
9321-LL-11049 Sheet 4 Issue 1 Auxiliary Control Panels for DG #31, 32, 33 Room CO2 System (seismic) Switchgear DG Alcove Room El 15'-0" Auxiliary Control Panels P7A, P7B and P7C Support Detail
9321-LL-11049 Sheet 3 Issue 1 DG Rms 31, 32, 33 CO2 System (Seismic) Heat Detector/Collector Installation Detail El 15'-0"
9321-LL-11049 Sheet 5 Issue 1 Auxiliary Control Panels for DG Rooms #31, #32 and #33 CO system (Seismic) Switchgear Room, Fl El 15'-0" SOV Splice Box Support Detail Civil/Structural
9321-F-11051 R1 Aux Cntrl Pnls for DG Rms 31, 32, 33 CO2 System (seismic) Switchgear Rm and DG Alcove El 15'-0" Conduit Supports Plan and Sections Electrical
ECN 97-3-424-008 Sheets 30 to 50
AWC-001

Evaluated by: Paul Huebsch Date: *10/09/2012*

Maggie Farah Date: *10/09/2012*

Kai Lo Date: *10/09/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☒ N☐ U☐

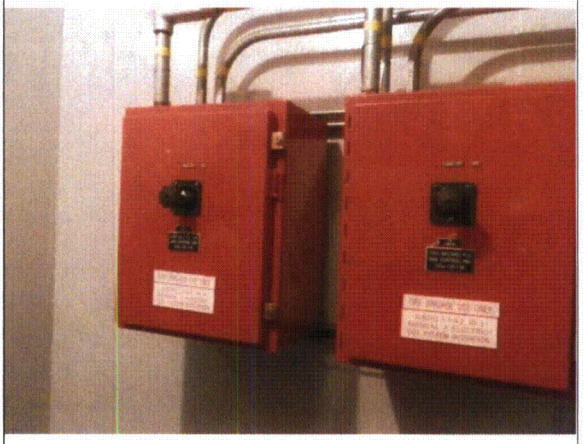
Seismic Walkdown Checklist (SWC) SWEL1-006

Equipment ID No. *CO2-CP-1A* Equip. Class[1] *0*

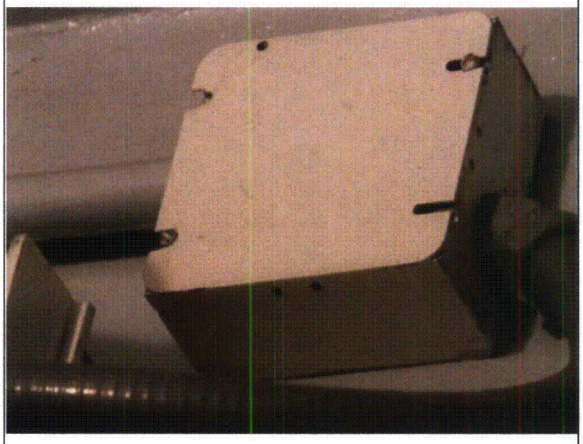
Equipment Description *CO2 PANEL*

Photographs

Note: *PANEL TAG*



Note: *VIEW OF CO2 PANEL*



Note: *Electrical junction box which is missing two closure screws.*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 1 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-007

Equipment ID No. *34MCC* Equip. Class[1] *1*

Equipment Description *TURBINE GENERATOR BUILDING MOTOR CONTROL CENTER 34*

Location: Bldg. *TB* Floor El. *15'-0"* Room, Area

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 not part of the 50% of SWEL items requiring verification.

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

   Anchorage is inside of the cabinet. Doors must be opened to examine the anchorage. MCC not allowed to be opened while MCC is powered. MCC to be powered down and opened for inspection at a later date.

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

   Anchorage is inside of the cabinet. Doors must be opened to examine the anchorage.

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

   Anchorage is inside of the cabinet. Doors must be opened to examine the anchorage.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-007

Equipment ID No. *34MCC* Equip. Class[1] *1*

Equipment Description *TURBINE GENERATOR BUILDING MOTOR CONTROL CENTER 34*

5. Is the anchorage configuration consistent 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☒

   Not applicable since the anchorage configuration verification is not required.

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

   Cannot be determined until cabinet doors are opened.

Interaction Effects

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

   A hood above the cabinet is resting on a water pipe. The original supports are no longer there. At the opposite end, the hood is supported on chains to an upper elevation. SQUG indicated that the hood is adequately supported. It does not appear to be adequately supported at this time. This has been addressed in CR-IP3-2012-03656.

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

   Piping above and adjacent to the cabinet does not appear to be seismically supported. This includes both water and fire water lines.This has been addressed in CR-IP3-2012-03656.

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

   Attached lines have adequate flexibility to avoid damage.

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

    Equipment is not free of adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-007

Equipment ID No. *34MCC* Equip. Class[1] *1*

Equipment Description *TURBINE GENERATOR BUILDING MOTOR CONTROL CENTER 34*

Other Adverse Conditions

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

Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

Cabinet doors need to be opened to verify anchorage and support of internal components. Per Operations (10/17/12) this cabinet cannot be opened until the next plant outage.

References:
SK-018 R0 MCC-34, Turbine Building El 15'-0" Civil/Structural
9321-F-10323-5 Turbine Building Concrete Plan at El 15'-0" S.E. Portion
9321-F-20063-28 Turbine Building and Heater Bay General Arrangement Ground Floor Plan at Elev 15'-0"
AWC-008

Evaluated by: *Paul Huebsch* Date: *10/11/2012*

Maggie Farah Date: *10/11/12*

Kai Lo Date: *10/11/12*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-007

Equipment ID No. *34MCC* Equip. Class[1] *1*

Equipment Description *TURBINE GENERATOR BUILDING MOTOR CONTROL CENTER 34*

Photographs

Note: *34MCC*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-008

Equipment ID No. *31 MCC* Equip. Class[1] *1*

Equipment Description *INTAKE STRUCTURE MCC*

Location: Bldg. *IS* Floor El. *15'-0"* Room, Area

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☒

   No, the anchorage configuration verification is not required.

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

   Anchorage is inside of the cabinet and doors must be opened to examine the anchorage. Cabinet cannot be opened when cabinet is powered. Cabinet to be powered down and internals inspected.

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

   Anchorage is inside of the cabinet and doors must be opened to examine the anchorage.

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

   Anchorage is inside of the cabinet and doors must be opened to examine the anchorage.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-008

Equipment ID No. *31 MCC* Equip. Class[1] *1*

Equipment Description *INTAKE STRUCTURE MCC*

5. Is the anchorage configuration consistent 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☒

   Not applicable since component is not part of the anchorage configuration verification.

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

   Anchorage is inside of the cabinet and doors must be opened to examine the anchorage.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   Tray over the cabinet is supported on long rod hangers. The trays are probably not seismically supported but they are hightly damped. This is considered acceptable.

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

   Attached lines have adequate flexibility to avoid damage.

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

    Equipment is free of adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 3 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-008

Equipment ID No. *31 MCC* Equip. Class[1] *1*

Equipment Description *INTAKE STRUCTURE MCC*

Other Adverse Conditions

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

Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

Cabinet doors need to be opened for examination of internals. Note that a warning plate as follows is found on the door panel "ARC FLASH HAZARD, APPROPRIATE PPE REQUIRED".

References:
9321-F-20113-13 Intake Structure, General Arrangement, Plan
AWC-009

Evaluated by: *Paul Huebsch* Date: *10/11/2012*

Maggie Farah *10/11/2012*

Kai Lo *10/11/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

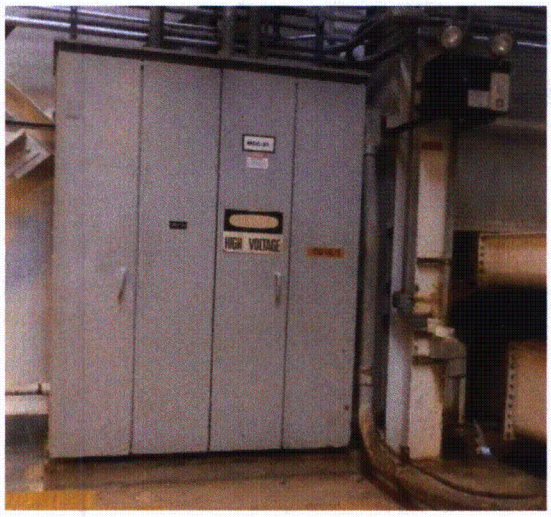
Status: Y☐ N☐ U☒

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

Equipment ID No. *31 MCC* Equip. Class[1] *1*

Equipment Description *INTAKE STRUCTURE MCC*

Photographs



Note: *31 MCC*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-009

Equipment ID No. *36BMCC* Equip. Class[1] *1*

Equipment Description *PAB MOTOR CONTROL CENTER 36B*

Location: Bldg. *PA* Floor El. *55'-0"* Room, Area

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☐

   Yes, check the anchorage.

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

   Anchorage is inside of the cabinet and the doors cannot be opened except during an outage. It was not possible to evaluate the anchorage. Cabinet to be powered down and internal anchorage inspected.

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

   Anchorage is inside of the cabinet and the doors cannot be opened except during an outage. It was not possible to evaluate the anchorage.

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

   Anchorage is inside of the cabinet and the doors cannot be opened except during an outage. It was not possible to evaluate the anchorage.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-009

Equipment ID No. *36BMCC* Equip. Class[1] *1*

Equipment Description *PAB MOTOR CONTROL CENTER 36B*

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

   Anchorage is inside of the cabinet and the doors cannot be opened except during an outage. It was not possible to evaluate the anchorage.

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

   Anchorage is inside of the cabinet and the doors cannot be opened except during an outage. It was not possible to evaluate the anchorage.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   Fluorescent bulbs need to be restrained to the light fixture. CR IP3-2012-03481 has been written to address this condition.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    Fluorescent bulbs need to be restrained.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-009

Equipment ID No. *36BMCC* Equip. Class[1] *1*

Equipment Description *PAB MOTOR CONTROL CENTER 36B*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
Sk-020-0 Sh 1 of 2 MCC36B, PAB El 55'-0" Civil/Structural
SEWS Sheet 480 VAC MCC
9321-F-70693-2 Primary Auxiliary Building General Arrangement, Plan at Elev 55'-0", Instrumentation
9321-F-25153-22 Primary Auxiliary Building General Arrangement, Plans at Elev 55'-0" and 73'-0"
AWC-028

Evaluated by: *Stephen Yuan* Date: *10/22/2012*

Paul Huebsch Date: *10/22/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☐ N☐ U☒

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

Equipment ID No. *36BMCC* Equip. Class[1] *1*

Equipment Description *PAB MOTOR CONTROL CENTER 36B*

Photographs

Note: *MCC36B Tag*

Note: *MCC36B*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-011

Equipment ID No. *37MCC* Equip. Class[1] *1*

Equipment Description *PRIMARY AUX BUILDING MCC*

Location: Bldg. *PA* Floor El. *55'-0"* Room, Area

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☒

   Not part of the anchorage checks.

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

   Anchorage is inside of the cabinet and the doors cannot be opened except during an outage. It was not possible to evaluate the anchorage. Cabinet to be powered down and internaly inspected.

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

   Anchorage is inside of the cabinet and the doors cannot be opened except during an outage. It was not possible to evaluate the anchorage.

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

   Anchorage is inside of the cabinet and the doors cannot be opened except during an outage. It was not possible to evaluate the anchorage.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-011

Equipment ID No. *37MCC* Equip. Class[1] *1*

Equipment Description *PRIMARY AUX BUILDING MCC*

5. Is the anchorage configuration consistent 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☒

   Not applicable since the anchorage configuration verification is not required.

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

   Anchorage is inside of the cabinet and the doors cannot be opened except during an outage. It was not possible to evaluate the anchorage at the current time.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   Fluorescent bulbs need to be restrained to the fixture. CR-IP3-2012-03481 has been written to address this condition.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    Fluorescent bulbs need to be restrained.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-011

Equipment ID No. *37MCC* Equip. Class[1] *1*

Equipment Description *PRIMARY AUX BUILDING MCC*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
SEWS Sheet 480 VAC MCC
IP3V-439-0928-4 Motor Control Center – Type W Arrangement
IP3V-439-0927-3 Motor Control Center- Type W Arrangement
IP3V-439-0930-4 Motor Control Center- Type W Arrangement
AWC-028

Evaluated by: *Stephen Yuan* Date: *10/22/2012*

Paul Huebsch Date: *10/22/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☐ N☐ U☒

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

Equipment ID No. *37MCC* Equip. Class[1] *1*

Equipment Description *PRIMARY AUX BUILDING MCC*

Photographs

Note: *MCC-37 Tag*

Note: *MCC-37*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-012

Equipment ID No. *39MCC* Equip. Class[1] *1*

Equipment Description *CONTROL BUILDING MOTOR CONTROL CENTER 39*

Location: Bldg. *CB* Floor El. *33'-0"* Room, Area

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☒

   Not part of anchor checks.

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

   The panel cannot be opened until plant outage. Requires extensive disassembly. Anchorage is internal to MCC and can not be inspected until MCC is opened. MCC is to be powered down and internaly inspected.

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

   See #2 above.

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

   See #2 above.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-012

Equipment ID No. *39MCC* Equip. Class[1] *1*

Equipment Description *CONTROL BUILDING MOTOR CONTROL CENTER 39*

5. Is the anchorage configuration consistent 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☒

   Not applicable since component is not part of the anchorage configuration verification.

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

   Cannot be determined until cabinet doors can be opened.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   Observed fluorscent bulbs adjacent to 39MCC that are not restrained to the fixture. During a seismic event the bulb may dislodge and strike nearby sensitive equipment. This is documented in CR-IP3-2012-03123.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    See #8 above.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 3 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-012

Equipment ID No. *39MCC* Equip. Class[1] *1*

Equipment Description *CONTROL BUILDING MOTOR CONTROL CENTER 39*

Other Adverse Conditions

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

Compartment 3G cover and compartment directly above 6K on panel 39MCC are missing two screws out of four. The covers are held with two screws are judged to be sufficient since the compartment covers are small.

Cable tray immediately in front of 39MCC had cables with broken zip ties (the cables were not tied to the cable tray). However, the cables are adequately placed inside the tray and will not dislodge during a seismic event. This is judged to be acceptable.

Comments (Additional pages may be added as necessary)

Cannot open panel to check anchorage and examine internal compartments until plant outage.

References:
9321-F-33833-12 Electrical Nodes for Equipment in Control Building, Sections A-A and B-B
SK-024 MCC-39 480 VAC MCC, Control Building El 33'-0", Civil/Structural
SEWS Sheets
AWC-007

Evaluated by: *Maggie Farah* Date: *10/17/12*

Kai Lo *10/17/12*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-012

Equipment ID No. *39MCC* Equip. Class[1] *1*

Equipment Description *CONTROL BUILDING MOTOR CONTROL CENTER 39*

Photographs

Note: *NO PHOTOS ATTACHED*	**Note:**

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-013

Equipment ID No. *36CMCC* Equip. Class[1] *1*

Equipment Description *PAB MOTOR CONTROL CENTER 36C*

Location: Bldg. *CB* Floor El. *15'-0"* Room, Area *SWITCHGEAR ROOM*

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☐

   Yes, check the anchorage

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

   Anchorage is inside of the cabinet and doors must be opened to examine the anchorage. Cabinet can not be opened while cabinet is powered. Cabinet is to be powered down and internaly inspected when possible.

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

   Anchorage is inside of the cabinet and doors must be opened to examine the anchorage.

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

   Anchorage is inside of the cabinet and doors must be opened to examine the anchorage.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-013

Equipment ID No. *36CMCC* Equip. Class[1] *1*

Equipment Description *PAB MOTOR CONTROL CENTER 36C*

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

   Anchorage is inside of the cabinet and doors must be opened to examine the anchorage.

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

   Anchorage is inside of the cabinet and doors must be opened to examine the anchorage.

Interaction Effects

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

   Target is free from impact by nearby equipment and structures.

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

   Tray over the cabinet is supported on long rod hangers. The trays are probably not seismically supported but they are hightly damped. This is considered acceptable.

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

   Attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 3 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-013

Equipment ID No. *36CMCC* Equip. Class[1] *1*

Equipment Description *PAB MOTOR CONTROL CENTER 36C*

Other Adverse Conditions

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

Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

Cabinet needs to be opened to evaluate anchorage and contents. Extensive disassembly will be required. Cabinet cannot be opened until plant outage.

References:
SEWS Worksheets
SK-021 Sheet 1 of 1 R0 MCC-36C 480 VAC MCC, Control Building El 15'-0" Civil/Structural
9321-F-30523-50 Equipment Arrangement, Control Building
AWC-002

Evaluated by: Paul Huebsch Date: *10/09/2012*

Maggie Farah Date: *10/09/2012*

Kai Lo Date: *10/09/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-013

Equipment ID No. *36CMCC* Equip. Class[1] *1*

Equipment Description *PAB MOTOR CONTROL CENTER 36C*

Photographs

Note: *36CMCC*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-014

Equipment ID No. *SWGR 31* Equip. Class[1] *2*

Equipment Description *480VAC SWGR 31 (BUS 2A AND BUS 5A)*

Location: Bldg. *CB* Floor El. *15'-0"* Room, *SWITCHGEAR ROOM* Area

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☒

   NOT PART OF ANCHOR CHECKS

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

   Access to the outside of the equipment (i.e. equipment aisle) is blocked and protected preventing inspection at the current time. The equipment is to be walked down when aisle becomes unprotected.

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

   See answer to question #2.

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

   See answer to question #2.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 5	IP3

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-014

Equipment ID No. *SWGR 31* Equip. Class[1] *2*

Equipment Description *480VAC SWGR 31 (BUS 2A AND BUS 5A)*

5. Is the anchorage configuration consistent 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☒

   Not applicable since component is not part of the anchorage configuration verification.

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

   See answer to question #2.

Interaction Effects

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

   See answer to question #2.

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

   See answer to question #2.

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

   See answer to question #2.

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

    See answer to question #2.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-014

Equipment ID No. *SWGR 31* Equip. Class[1] *2*

Equipment Description *480VAC SWGR 31 (BUS 2A AND BUS 5A)*

Other Adverse Conditions

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

    See answer to question #2.

Comments (Additional pages may be added as necessary)

Evaluated by: *Paul Huebsch* Date: *10/09/2012*

Maggie Farah *10/09/2012*

Kai Lo *10/09/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-014

Equipment ID No. *SWGR 31* Equip. Class[1] *2*

Equipment Description *480VAC SWGR 31 (BUS 2A AND BUS 5A)*

Photographs

Note:	**Note:**

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 5 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-014

Equipment ID No. *SWGR 31* Equip. Class[1] *2*

Equipment Description *480VAC SWGR 31 (BUS 2A AND BUS 5A)*

Note:	**Note:**

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-015

Equipment ID No. *SWGR 32* Equip. Class[1] *2*

Equipment Description *480VAC SWGR 32 (BUS 3A & BUS 6A)*

Location: Bldg. *CB* Floor El. *15'-0"* Room, Area *SWITCHGEAR ROOM*

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☒
   NOT PART OF ANCHOR CHECKS

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

   Access to the outside of the equipment (i.e. equipment aisle) is blocked and protected preventing inspection at the current time. The equipment is to be walked down when aisle becomes unprotected.

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

   See answer to question #2.

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

   See answer to question #2.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-015

Equipment ID No. *SWGR 32* Equip. Class[1] *2*

Equipment Description *480VAC SWGR 32 (BUS 3A & BUS 6A)*

5. Is the anchorage configuration consistent 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☒
   Not applicable since component is not part of the anchorage configuration verification.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☐ N☐ U☒
   See answer to question #2.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☐ N☐ U☒ N/A☐
   See answer to question #2.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☐ N☐ U☒ N/A☐
   See answer to question #2.

9. Do attached lines have adequate flexibility to avoid damage? Y☐ N☐ U☒ N/A☐
   See answer to question #2.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☐ N☐ U☒
    See answer to question #2.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-015

Equipment ID No. *SWGR 32* Equip. Class[1] *2*

Equipment Description *480VAC SWGR 32 (BUS 3A & BUS 6A)*

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☐ N☐ U☒
See answer to question #2.

Comments (Additional pages may be added as necessary)

Evaluated by: *Paul Huebsch* Date: *10/09/2012*

Maggie Farah *10/09/2012*

Kai Lo *10/09/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-015

Equipment ID No. *SWGR 32* Equip. Class[1] *2*

Equipment Description *480VAC SWGR 32 (BUS 3A & BUS 6A)*

Photographs

Note:	**Note:**

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 5 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-015

Equipment ID No. *SWGR 32* Equip. Class[1] *2*

Equipment Description *480VAC SWGR 32 (BUS 3A & BUS 6A)*

Note:	**Note:**

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-016

DEFERRED TO OUTAGE – SEE COMMENTS

Equipment ID No. *52/RTB & 52/RTA* Equip. Class[1] *2*

Equipment Description *RX TRIP SWITCHGEAR RTA, RTB*

Location: Bldg. *CB* Floor El. *33'-0"* Room, Area

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☒
   Not part of anchorage checks.

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

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

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

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-016

DEFERRED TO OUTAGE – SEE COMMENTS

Equipment ID No. *52/RTB & 52/RTA* Equip. Class[1] *2*

Equipment Description *RX TRIP SWITCHGEAR RTA, RTB*

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

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

Interaction Effects

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

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

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

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

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-016

DEFERRED TO OUTAGE – SEE COMMENTS

Equipment ID No. *52/RTB & 52/RTA* Equip. Class[1] *2*

Equipment Description *RX TRIP SWITCHGEAR RTA, RTB*

Other Adverse Conditions

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)

Operations advises that this equipment cannot be opened during an operating cycle. It is only allowed to be opened during an outage therefore this item is deferred to the next outage.

References:
9321-F-30523-50 Equipment Arrangement, Control Building
AWC-007

Evaluated by: *Paul Huebsch* Date: *10/09/2012*

Maggie Farah Date: *10/09/2012*

Kai Lo Date: *10/09/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-016

DEFERRED TO OUTAGE – SEE COMMENTS

Equipment ID No. *52/RTB & 52/RTA* Equip. Class[1] *2*

Equipment Description *RX TRIP SWITCHGEAR RTA, RTB*

Photographs

Note: *No photos attached.*	**Note:**

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 5 of 5 **IP3**

Status: Y☐ N☐ U☒

Seismic Walkdown Checklist (SWC) SWEL1-016

DEFERRED TO OUTAGE – SEE COMMENTS

Equipment ID No. *52/RTB & 52/RTA* Equip. Class[1] *2*

Equipment Description *RX TRIP SWITCHGEAR RTA, RTB*

Note: *No photos attached.*	**Note:**

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-017

Equipment ID No. *CO2-CP-1B* Equip. Class[1] *0*

Equipment Description *CO2 PANEL*

Location: Bldg. *DG* Floor El. *15'-0"* Room, Area

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☐

   Yes, the anchorage configuration verification is required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	IP3

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-017

Equipment ID No. *CO2-CP-1B* Equip. Class[1] *0*

Equipment Description *CO2 PANEL*

5. Is the anchorage configuration consistent 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☐

   Correct per drawing 9321-LL-11049, Sheet 4.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   There is one wall mounted light approximately 3 feet away from panel which does not have a guard. It is judged that the separation precludes the light from having a seismic interaction with the panel.

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

   Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-017

Equipment ID No. *CO2-CP-1B* Equip. Class[1] *0*

Equipment Description *CO2 PANEL*

Other Adverse Conditions

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

Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

Potential discharge of CO2 in the EDG if cabinet is opened therefore, this panel will not have the internals examined.

References:

9321-LL-11049 Sheet 4 Issue 1 Auxiliary Control Panels for DG #31, 32, 33 Room CO2 System (seismic) Switchgear DG Alcove Room El 15'-0" Auxiliary Control Panels P7A, P7B and P7C Support Detail

9321-LL-11049 Sheet 3 Issue 1 DG Rms 31, 32, 33 CO2 System (Seismic) Heat Detector/Collector Installation Detail El 15'-0"

9321-LL-11049 Sheet 5 Issue 1 Auxiliary Control Panels for DG Rooms #31, #32 and #33 CO system (Seismic) Switchgear Room, Fl El 15'-0" SOV Splice Box Support Detail Civil/Structural

9321-F-11051 R1 Aux Cntrl Pnls for DG Rms 31, 32, 33 CO2 System (seismic) Switchgear Rm and DG Alcove El 15'-0" Conduit Supports Plan and Sections Electrical

ECN 97-3-424-008 Sheets 30 to 50

AWC-001

Evaluated by: Paul Huebsch Date: *10/09/2012*

Maggie Farah Date: *10/09/2012*

Kai Lo Date: *10/09/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

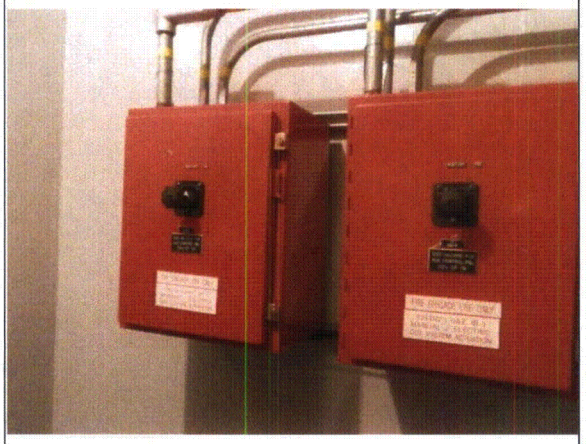
Status: Y☒ N☐ U☐

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

Equipment ID No. *CO2-CP-1B* Equip. Class[1] *0*

Equipment Description *CO2 PANEL*

Photographs



Note: *CO2 PANEL*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-018

Equipment ID No. *IB 31 BU SOLA XFMR BOTTOM* Equip. Class[1] *4*

Equipment Description *31 SOLA XFRM*

Location: Bldg. *CB* Floor El. *33'-0"* Room, Area

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☐

   Yes, the anchorage configuration verification is required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-018

Equipment ID No. *IB 31 BU SOLA XFMR BOTTOM* Equip. Class[1] *4*

Equipment Description *31 SOLA XFRM*

5. Is the anchorage configuration consistent 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 bolt pattern per drawing 9321-F-65013 is 10" x 10". The field measured bolt pattern is 8" x 10" on two base plates. No bolt placement tolerance is indicated on the drawing. CR IP3-2012-03229 has been issued to track resolution.

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

   Based on the above anchorage evaluations, the anchorage is not free of potentially adverse seismic conditions.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   Flourescent fixture above the transformer is firmly connected to Unistrut. However, the bulbs in the fixture are not restrained to the fixture. CR IP3-2012-03123 has been written to correct the variance.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    No, see answer to question #8.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-018

Equipment ID No. *IB 31 BU SOLA XFMR BOTTOM* Equip. Class[1] *4*

Equipment Description *31 SOLA XFRM*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
Calculation No. 6604.221-1-CB-TS-001 Seismic Support for Sola Transformers (4-15KVA)
SEWS Sheet 480/120 VAC SOLA XFMR (FOR IB-31,31A)
SEWS Sheet 480/120 VAC SOLA XFMR (FOR IB-31,31B)
AWC-007

Evaluated by: *Paul Huebsch* Date: *10/10/2012*

Maggie Farah Date: *10/10/2012*

Kai Lo Date: *10/10/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

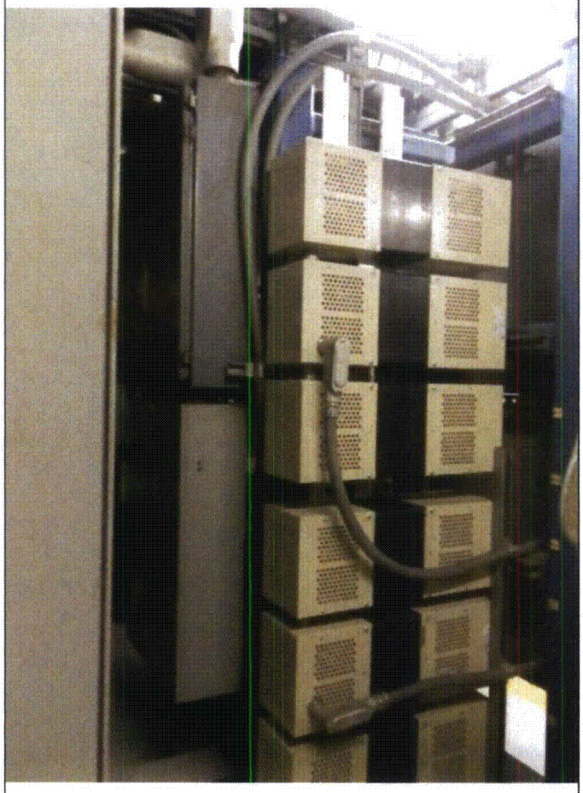
Status: Y☒ N☐ U☐

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

Equipment ID No. *IB 31 BU SOLA XFMR BOTTOM* Equip. Class[1] *4*

Equipment Description *31 SOLA XFRM*

Photographs



Note: *VIEW OF 31 SOLA XFRM*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-019

Equipment ID No. *IB 32 BU SOLA XFMR BOTTOM* Equip. Class[1] *4*

Equipment Description *32 SOLA XFRM*

Location: Bldg. *CB* Floor El. *33'-0"* Room, Area

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☐

   Yes, the anchorage configuration verification is required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-019

Equipment ID No. *IB 32 BU SOLA XFMR BOTTOM* Equip. Class[1] *4*

Equipment Description *32 SOLA XFRM*

5. Is the anchorage configuration consistent 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 bolt pattern per drawing 9321-F-65013 is 10" x 10". The field measured bolt pattern is 8" x 10" on two base plates. No bolt placement tolerance is indicated on the drawing. CR IP3-2012-03229 has been issued to track resolution.

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

   Based on the above anchorage evaluations, the anchorage is not free of potentially adverse seismic conditions.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   Fluorescent fixture above the transformer is firmly connected to Unistrut. However, the fluorescent bulb is not restrained to the fixture. CR IP3-2012-03123 has been written to correct the variance.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    No, see answer to question #8.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-019

Equipment ID No. *IB 32 BU SOLA XFMR BOTTOM* Equip. Class[1] *4*

Equipment Description *32 SOLA XFRM*

Other Adverse Conditions

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

Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
Calculation No. 6604.221-1-CB-TS-001 Seismic Support for Sola Transformers (4-15KVA)
SEWS Sheet 480/120 VAC SOLA XFMR (FOR IB-31,31A)
SEWS Sheet 480/120 VAC SOLA XFMR (FOR IB-31,31B)
AWC-007

Evaluated by: *Paul Huebsch* Date: *10/10/2012*

Maggie Farah Date: *10/10/2012*

Kai Lo Date: *10/10/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

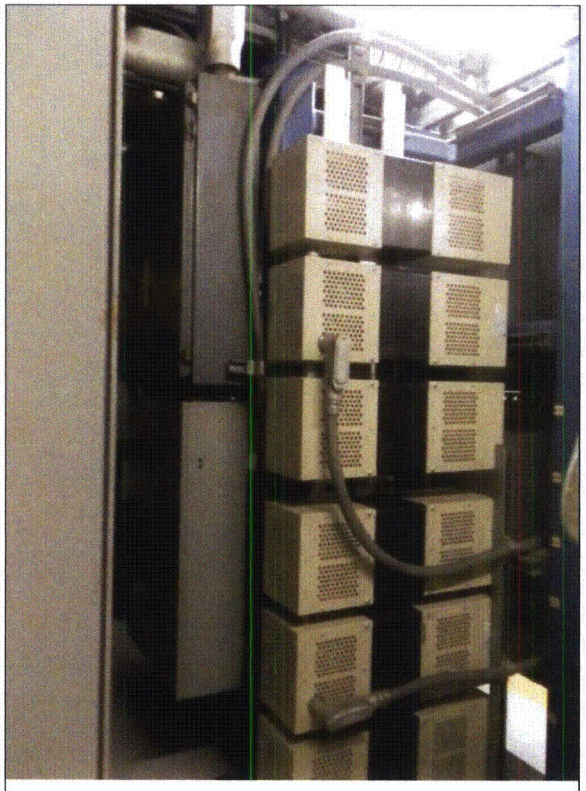
Status: Y☒ N☐ U☐

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

Equipment ID No. *IB 32 BU SOLA XFMR BOTTOM* Equip. Class[1] *4*

Equipment Description *32 SOLA XFRM*

Photographs



Note: *32 SOLA XFRM*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-020

Equipment ID No. *PC TRANS* Equip. Class[1] *4*

Equipment Description *PRZR HTR BK UP GROUP 31 TRANSFORMER*

Location: Bldg. *CB* Floor El. *33'-0"* Room, Area

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☐

   Yes, the anchorage configuration verification is required.

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

   The anchorage is free of bent, broken, missing or loose hardware.

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

   The anchorage is free of corrosion that is more than mild surface oxidation.

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

   The anchorage is free of visible cracks in the concrete near the anchors.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-020

Equipment ID No. *PC TRANS* Equip. Class[1] *4*

Equipment Description *PRZR HTR BK UP GROUP 31 TRANSFORMER*

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

   The anchorage configuration is consistent with SEWS for 31 PRZ HTR BK-UP XFMR and 33 PRZ HTR BK-UP XFMR. See reference list under Comments.

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

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

Interaction Effects

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

   Soft targets are free from impact by nearby equipment or structures.

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

   Overhead equipment, distribution systems, ceiling tiles and lighting are not likely to collapse onto the equipment.

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

   Attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-020

Equipment ID No. *PC TRANS* Equip. Class[1] *4*

Equipment Description *PRZR HTR BK UP GROUP 31 TRANSFORMER*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

Cabinet doors cannot be opened without extensive disassembly. This cabinet is excluded from the internal visual examination.

References:
SEWS Worksheet #31 PRZ HTR BK-UP XFMR
SEWS Worksheet #33 PRESSURIZER BACKUP HEATERS TRANSFORMER
9321-F-30523-50 Equipment Arrangement, Control Building
AWC-007

Evaluated by: *Paul Huebsch* Date: *10/11/2012*

Maggie Farah Date: *10/11/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☒ N☐ U☐

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

Equipment ID No. *PC TRANS* Equip. Class[1] *4*

Equipment Description *PRZR HTR BK UP GROUP 31 TRANSFORMER*

Photographs

Note: *PRZR HTR BK UP GROUP 31 TRANSFORMER*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-021

Equipment ID No. *31 SI PUMP* Equip. Class[1] *5*

Equipment Description *31 SAFETY INJECTION PUMP*

Location: Bldg. *PA* Floor El. *34'-0"* Room, Area *SAFETY INJECTION PUMP ROOM*

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☐

   Yes, the anchorage configuration verification is required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-021

Equipment ID No. *31 SI PUMP* Equip. Class[1] *5*

Equipment Description *31 SAFETY INJECTION PUMP*

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

   Yes, the anchorage configuration is consistent with drawing 9321-F-11673-7

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   South wall of the room is solid concrete wall per drawing 9321-F-11673 wall. Therefore, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-021

Equipment ID No. *31 SI PUMP* Equip. Class[1] *5*

Equipment Description *31 SAFETY INJECTION PUMP*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
9321-F-11673-7, PRIMARY AUXILIARY BUILDING CONCRETE, FLOOR AT EL EVATION 34'-0"
9321-F-25113-21, PRIMARY AUXILIARY BUILDING GENERAL ARRANGEMENT SECTION SH 1
AWC-031

Evaluated by: *Maggie Farah* Date: *10/22/2012*

Kai Lo *10/22/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

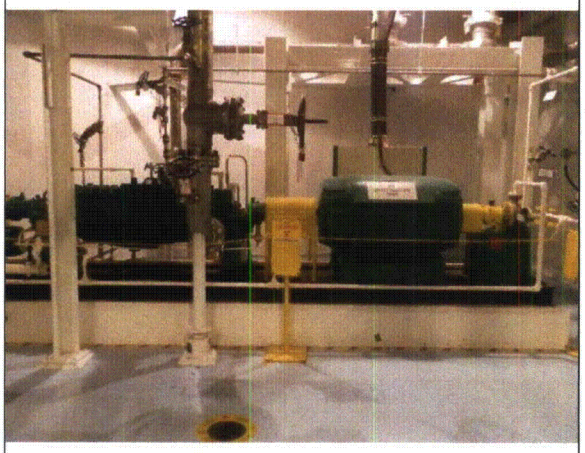
Status: Y☒ N☐ U☐

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

Equipment ID No. *31 SI PUMP* Equip. Class[1] *5*

Equipment Description *31 SAFETY INJECTION PUMP*

Photographs



Note: *31 SI PUMP*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-022

Equipment ID No. *31 ABFP* Equip. Class[1] *5*

Equipment Description *MOTOR DRIVEN AUX. FEEDWATER PUMP NO. 31*

Location: Bldg. *AFB* Floor El. *18'-6"* Room, Area

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☐

   Yes, the anchorage configuration verification is required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 4	IP3

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-022

Equipment ID No. *31 ABFP* Equip. Class[1] *5*

Equipment Description *MOTOR DRIVEN AUX. FEEDWATER PUMP NO. 31*

5. Is the anchorage configuration consistent 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☐

   Field measurements (using a caliper) of anchor bolt diameter is 7/8" which is consistant with Drawing IP3V-209-6.1-0007, Rev.1. SEWS for ABFP-31 evaluated the anchors using ¾" diameter bolts which is conservative since it's a smaller diameter; therefore this is accpetable.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-022

Equipment ID No. *31 ABFP* Equip. Class[1] *5*

Equipment Description *MOTOR DRIVEN AUX. FEEDWATER PUMP NO. 31*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
SEWS Worksheet
9321-F-20143-9 Auxiliary Feed Pump Building General Arrangemetn Plans Sheet No. 1
IP3V-209-6.1-0007 R1 General Arrangement for Aux Feed Pumps #31 and 33
AWC-012

Evaluated by: *Paul Huebsch* Date: *10/12/2012*

Maggie Farah Date: *10/12/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-022

Equipment ID No. *31 ABFP* Equip. Class[1] *5*

Equipment Description *MOTOR DRIVEN AUX. FEEDWATER PUMP NO. 31*

Photographs

Note: *MOTOR DRIVEN AUX. FEEDWATER PUMP NO. 31*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-023

Equipment ID No. *32 ABFP* Equip. Class[1] *5*

Equipment Description *TURBINE DRIVEN AUX. FEEDWATER PUMP NO. 32*

Location: Bldg. *AB* Floor El. *18'-6"* Room, Area

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☐

   Yes, the anchorage configuration verification is required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   NRC requested northeast bolt to be cleaned for proper examination. This cannot be done while equipment is protected since access to the pump is limited.

   On 11/15/2012, the northeast bolt was cleaned and was found acceptable without any corrosion.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-023

Equipment ID No. *32 ABFP* Equip. Class[1] *5*

Equipment Description *TURBINE DRIVEN AUX. FEEDWATER PUMP NO. 32*

5. Is the anchorage configuration consistent 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☐

   Field measurements (using a caliper) of anchor bolt diameter is 7/8" which is consistant with Drawing 9321-F-12083-3. SEWS for ABFP-32 evaluated the anchors using ¾" diameter bolts which is conservative since it's a smaller diameter; therefore this is accpetable.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   Yes soft targets are free from impact by nearby equipment or structures.

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

   Fluorescent bulb adjacent to 32 ABFP needs to be wire restrained to light fixture. This is addressed in CR-IP3-2012-03246.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    See #8 above.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-023

Equipment ID No. *32 ABFP* Equip. Class[1] *5*

Equipment Description *TURBINE DRIVEN AUX. FEEDWATER PUMP NO. 32*

Other Adverse Conditions

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

Observed tubing coming out of BFD-61-3 that is in contact with a U-Bolt that supports valve BFD-31. This is addressed in CR-IP3-2012-03246.

Comments (Additional pages may be added as necessary)

References:
SEWS Worksheet TURBINE DRIVEN AUX FEEDWATER PUMP NO. 32
CR-IP3-2012-02732
9321-F-12083-3 Shield Wall Area, Concrete Plan El 18'-6"
9321-F-20143-9 Auxiliary Feed Pump Building, General Arrangement, Plans – Sheet No. 1
AWC-012

Evaluated by: *Kai Lo* Date: *10/15/2012*

Maggie Farah *10/15/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☒ N☐ U☐

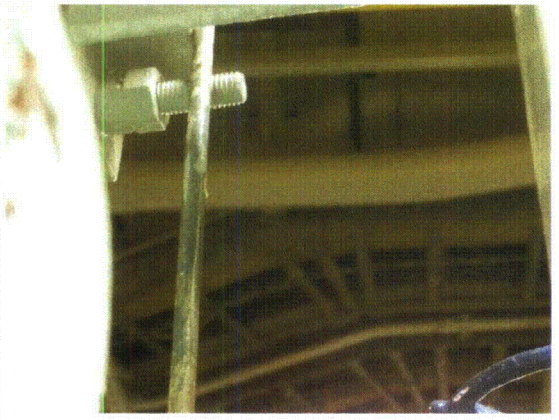
Seismic Walkdown Checklist (SWC) **SWEL1-023**

Equipment ID No. *32 ABFP* Equip. Class[1] *5*

Equipment Description *TURBINE DRIVEN AUX. FEEDWATER PUMP NO. 32*

Photographs

Note: *32 ABFP*



Note: *Tubing in contact with U-Bolt*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-024

Equipment ID No. *31 CCW PUMP* Equip. Class[1] *5*

Equipment Description *CCW PUMP NO 31*

Location: Bldg. *PA* Floor El. *41'-0"* Room, Area

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☐

   Yes, the anchorage configuration verification is required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-024

Equipment ID No. *31 CCW PUMP* Equip. Class[1] *5*

Equipment Description *CCW PUMP NO 31*

5. Is the anchorage configuration consistent 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☐

   Yes, the anchorage configuration is consistent with 9321-F-11683-10

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   Observed fluorescent bulbs above 31 CCW pumps 31 and 32 that are not secured to the light fixture. During a seismic event, the bulbs may become loose and strike the oil reservoir west of the pumps. This is addressed in CR-IP3-2012-03481.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    See # 8 above.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-024

Equipment ID No. *31 CCW PUMP* Equip. Class[1] *5*

Equipment Description *CCW PUMP NO 31*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
9321-F-11683-10, PRIMARY AUXILIARY BUILDING CONCRETE, FLOOR AT EL EVATION 41'-0"
9321-F-25103-23, PRIMARY AUXILIARY BUILDING GENERAL ARRANGEMENT PLANS AT ELEVATION 15'-0", 32'-6", 34'-0" & 41'-0"
9321-F-25113-21, PRIMARY AUXILIARY BUILDING GENERAL ARRANGEMENT SECTION SH 1
9321-F-30843-34, CONDUIT LAYOUT PRIMARY AUXILIARY BUILDING ELEVATION 41'-0"
9321-F-30653-11, CABLE TRAY LAYOUT PRIMARY AUXILIARY BUILDING ELEVATION 15'-0", 34'-0" & 41'-0" SH 2
IP3V-209-61-0040, Rev.1
SEWS for CCW Pump NO 31
AWC-023

Evaluated by: *Maggie Farah* Date: *10/22/12*

Kai Lo *10/22/12*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

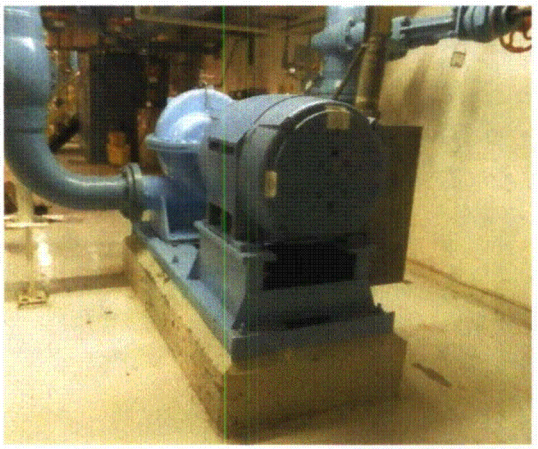
Status: Y☒ N☐ U☐

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

Equipment ID No. *31 CCW PUMP* Equip. Class[1] *5*

Equipment Description *CCW PUMP NO 31*

Photographs



Note: *31 CCW Pump*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-025

Equipment ID No. *31 CS PUMP* Equip. Class[1] *5*

Equipment Description *CONTAINMENT SPRAY PUMP #31*

Location: Bldg. *PA* Floor El. *41'-0"* Room, Area

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☐

   Yes, the anchorage configuration verification is required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-025

Equipment ID No. *31 CS PUMP* Equip. Class[1] *5*

Equipment Description *CONTAINMENT SPRAY PUMP #31*

5. Is the anchorage configuration consistent 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☐

   Yes, the anchorage configuration is consistent with 9321-F-11683-13.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   Observed unrestrained fluorscent bulbs directly above the pump's oil reservoir. During a seismic event, the bulb may fall and strike the oil reservoir. This is documented in CR-IP3-2012-03481.

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

   Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    See #7 above.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-025

Equipment ID No. *31 CS PUMP* Equip. Class[1] *5*

Equipment Description *CONTAINMENT SPRAY PUMP #31*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
9321-F-25103-23, PRIMARY AUXILIARY BUILDING GENERAL ARRANGEMENT PLANS AT ELEVATION 15'-0", 32'-6", 34'-0" & 41'-0"
9321-F-11683-13, PRIMARY AUXILIARY BUILDING CONCRETE, FLOOR AT EL EVATION 41'-0"
AWC-022

Evaluated by: *Maggie Farah* Date: *10/22/12*

Kai Lo *10/22/12*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

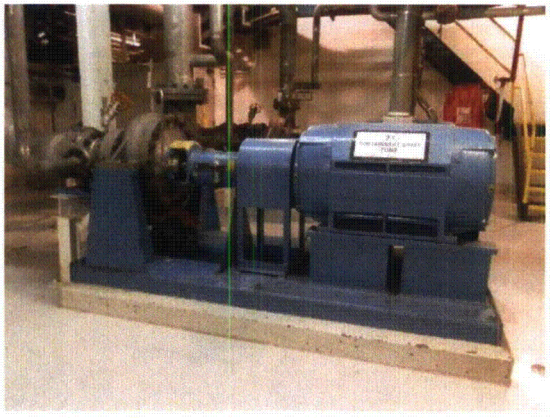
Status: Y☒ N☐ U☐

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

Equipment ID No. *31 CS PUMP* Equip. Class[1] *5*

Equipment Description *CONTAINMENT SPRAY PUMP #31*

Photographs



Note: *31 CS Pump*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 5 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-026

Equipment ID No. *31 BAST TRANSFER PUMP* Equip. Class[1] *5*

Equipment Description *BORIC ACID TRANSFER PUMP 31*

Location: Bldg. *PA* Floor El. *55'-0"* Room, Area

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☒

   No, the anchorage configuration verification is not required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 5 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-026

Equipment ID No. *31 BAST TRANSFER PUMP* Equip. Class[1] *5*

Equipment Description *BORIC ACID TRANSFER PUMP 31*

5. Is the anchorage configuration consistent 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☒

   Not applicable since component is not part of the anchorage configuration verification.

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

   Yes, the anchorage configuration is consistent with plant documentation.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 5 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-026

Equipment ID No. *31 BAST TRANSFER PUMP* Equip. Class[1] *5*

Equipment Description *BORIC ACID TRANSFER PUMP 31*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

Loose parts in the area need to be removed
Damaged insulation on piping needs to be repaired – not an adverse seismic condition.
CR-IP3-2012-03501 has been written to correct this condition

References:
SEWS Sheets Boric Acid Transfer Pump
9321-F-11783-10 Primary Auxiliary Building Concrete, Floor at El 55'-0" East End
9321-F-25153-22 Primary Auxiliary Building General Arrangement, Plans at El 55'-0" and 73'-0"
IP3V-186-6.1-0025-1 Boric Acid Transfer Pump 31 and 32
AWC-032

Evaluated by: *Stephen Yuan* Date: *10/22/2012*

Paul Huebsch Date: *10/22/2012*

ATTACHMENT 9.6 | **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 4 of 5 | **IP3**

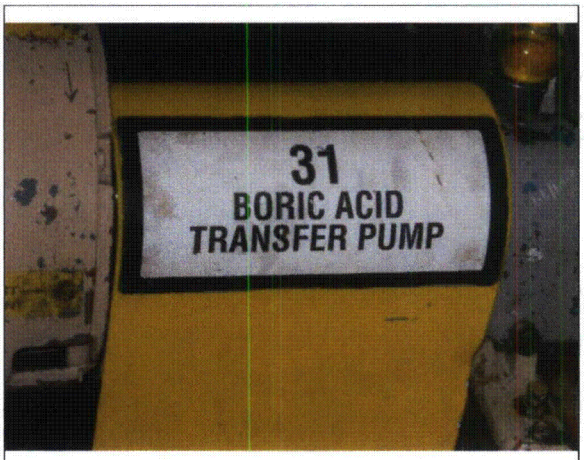
Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-026

Equipment ID No. *31 BAST TRANSFER PUMP* Equip. Class[1] *5*

Equipment Description *BORIC ACID TRANSFER PUMP 31*

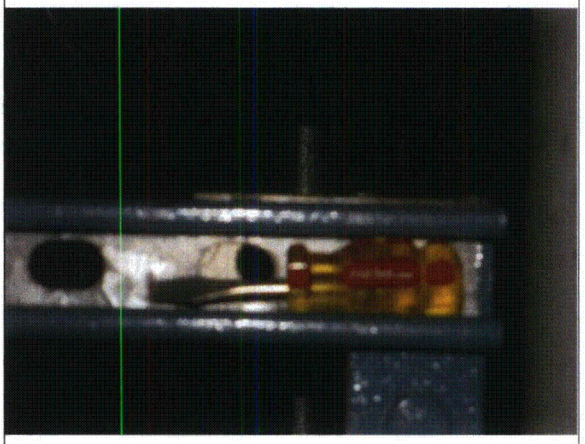
Photographs



Note: *Transfer pump*

Note: *Overview of pump*

Note: *Overview of pump*



Note: *Screw driver left on Unistrut*

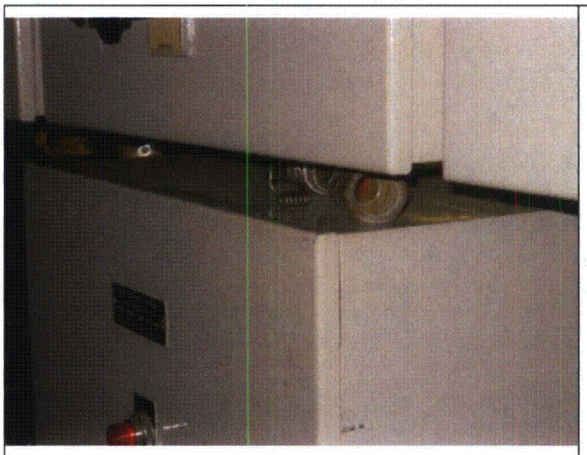
ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 5 of 5 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-026

Equipment ID No. *31 BAST TRANSFER PUMP* Equip. Class[2] *5*

Equipment Description *BORIC ACID TRANSFER PUMP 31*



Note: *Miscellaneous parts left on top of panel*

Note: *Damaged insulation*

Note: *Damaged insulation*

Note:

[2] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 6 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-027

Equipment ID No. *32 CHARGING PUMP* Equip. Class[1] *5*

Equipment Description *NO. 32 CHARGING PUMP*

Location: Bldg. *PA* Floor El. *55'-0"* Room, Area

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☐

   Yes, the anchorage configuration verification is required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Concrete was chipped out to install equipment adjacent to the pump pedestal. The excavated volume reduced the anchor bolt edge distance to approximately 2" plus or minus. This condition was evaluated as part of the SQUG review and the condition was found satisfactory for an edge distance as small as one inch.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6	SEISMIC WALKDOWN CHECKLIST FORM
Sheet 2 of 6	IP3

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-027

Equipment ID No. *32 CHARGING PUMP* Equip. Class[1] *5*

Equipment Description *NO. 32 CHARGING PUMP*

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

   Yes, the anchorage configuration is consistent with plant documentation.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   The fluorescent tubes in the lights need to be restrained. This is not considered a seismic impact for hardened equipment.
   CR-IP3-2012-03481 has been written to correct this condition

8. Are 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 a partial masonry wall adjacent to the equipment. This was determined to have been part of the IE Bulletin 80-11 response and that the walls will perform satisfactorily in a seismic event.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 6 **IP3**

Status: Y☒ N☐ U☐

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

Equipment ID No. *32 CHARGING PUMP* Equip. Class[1] *5*

Equipment Description *NO. 32 CHARGING PUMP*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
SEWS Sheet No. 32 CHARGING PUMP
IP3V-410-0001-2 DIRECT DRIVE THRU HYD COUPLING
9321-F-11693-8 PRIMARY AUXILIARY BUILDING CONCRETE, FLOOR AT EL 55'-0" WEST END
9321-F-25153-22 PRIMARY AUXILIARY BUILDING GENERAL ARRANGEMENT, PLANS AT ELEVATION 55'-0" AND 73'-0"
AWC-030

Evaluated by: *Stephen Yuan* Date: *10/22/2012*

Paul Huebsch Date: *10/22/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 6 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-027

Equipment ID No. *32 CHARGING PUMP* Equip. Class[1] *5*

Equipment Description *NO. 32 CHARGING PUMP*

Photographs

Note: *Entering room*

Note: *View of pump*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

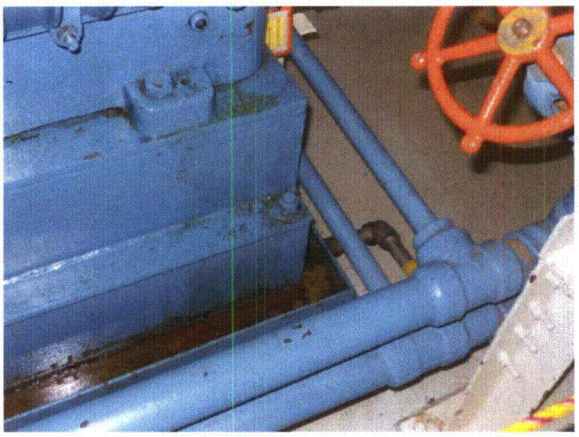
Sheet 5 of 6 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-027

Equipment ID No. *32 CHARGING PUMP* Equip. Class[1] *5*

Equipment Description *NO. 32 CHARGING PUMP*



Note: *Anchor bolt*

Note: *View of pump*

Note: *View of piping*

Note: *Excavated area of pedestal*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 6 of 6 **IP3**

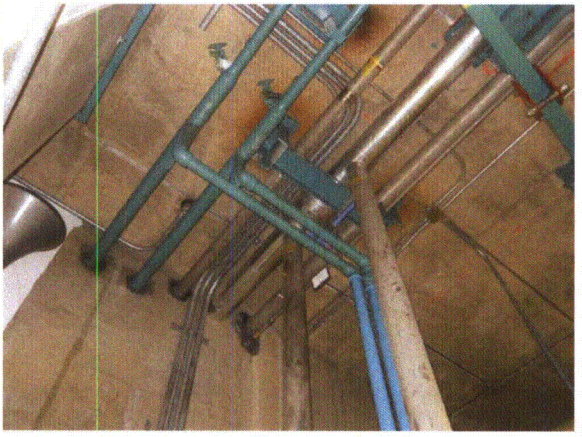
Status: Y☒ N☐ U☐

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

32 CHARGING PUMP Equip. Class[2] *5*

Equipment Description *NO. 32 CHARGING PUMP*

Note: *View of piping with excessive unsupported length*



Note: *View of piping with excessive unsupported length*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-028

Equipment ID No. *31 RHR PUMP* Equip. Class[1] *6*

Equipment Description *31 RHR PUMP*

Location: Bldg. *PA* Floor El. *15'-0"* Room, *PHR PUMP ROOM* Area *(CELL 31)*

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☒

   No, the anchorage configuration verification is not required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-028

Equipment ID No. *31 RHR PUMP* Equip. Class[1] *6*

Equipment Description *31 RHR PUMP*

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

   Not applicable since component is not part of the anchorage configuration verification.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.

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

   Yes, attached lines have adequate flexibility to avoid damage.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-028

Equipment ID No. *31 RHR PUMP* Equip. Class[1] *6*

Equipment Description *31 RHR PUMP*

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

Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

Other Adverse Conditions

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

Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
9321-F-25103-23, PRIMARY AUXILIARY BUILDING GENERAL ARRANGEMENT PLANS AT ELEVATION 15'-0", 32'-6", 34'-0" & 41'-0"
9321-F-70573-7, PRIMARY AUXILIARY BUILDING INSTRUMENT ARRANGEMENT SH 4 INSTRUMENTATION
9321-F-25113-21, PRIMARY AUXILIARY BUILDING GENERAL ARRANGEMENT SECTION SHT 1
9321-F-30653-11, CABLE TRAYLAYOUT PRIMARY AUXILIARY BUILDING ELEVATION 15'-0" & 34'-0" & 41'-0" SH 2
IP3V-209-61-0041, Rev. 1
IP3V-209-0043, Rev. 2
SEWS for 31 RHR Pump
AWC-024

Evaluated by: *Maggie Farah* Date: *10/22/12*

Kai Lo *10/22/12*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

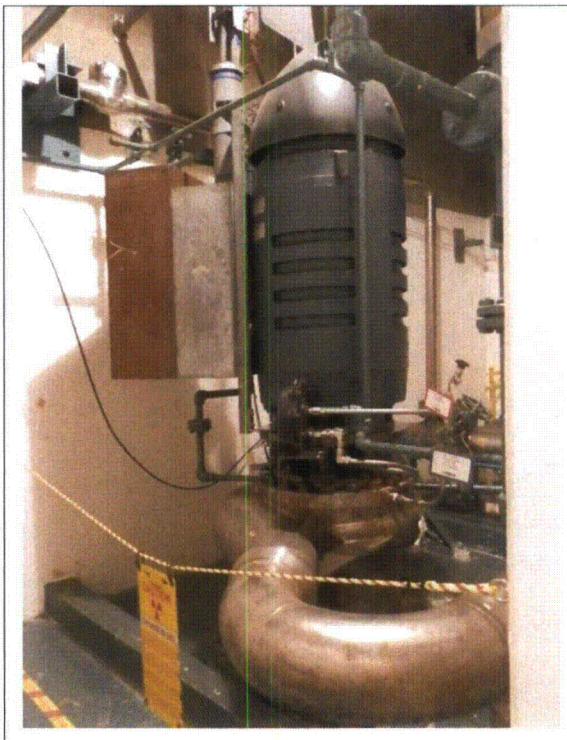
Status: Y☒ N☐ U☐

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

Equipment ID No. *31 RHR PUMP* Equip. Class[1] *6*

Equipment Description *31 RHR PUMP*

Photographs



Note: *31 RHR Pump*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-029

Equipment ID No. *32 RHR PUMP* Equip. Class[1] *6*

Equipment Description *32 RHR PUMP*

Location: Bldg. *PA* Floor El. *15'-0"* Room, *RHR PUMP ROOM* Area *(CELL 32)*

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☒

   No, the anchorage configuration verification is not required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Observed minor surface corrison on the base plate. Judged to be acceptable. Therefore, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-029

Equipment ID No. *32 RHR PUMP* Equip. Class[1] *6*

Equipment Description *32 RHR PUMP*

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

   Not applicable since is not part of the anchorage configuration verification.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   Observed a block wall located at the south side of the intermediate cell between the two pump cells (31 and 32). The lower half of the wall is masonry and the upper portion is concrete. This wall was seismically qualified in calculation 6604.210-1-CB-001-A, Wall #7.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

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

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-029

Equipment ID No. *32 RHR PUMP* Equip. Class[1] *6*

Equipment Description *32 RHR PUMP*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
9321-F-70573-7, PRIMARY AUXILIARY BUILDING INSTRUMENT ARRANGEMENT SH 4 INSTRUMENTATION
IP3V-209-61-0041, Rev. 1
9321-F-25103-23, PRIMARY AUXILIARY BUILDING GENERAL ARRANGEMENT PLANS AT ELEVATION 15'-0", 32'-6", 34'-0" & 41'-0"
9321-F-11663-16, PRIMARY AUXILIARY BUILDING CONCRETE FLOOR AT ELEVATION 15'-0"
AWC-027
Calculation 6604.210-1-CB-001-A

Evaluated by: *Maggie farah* Date: *10/22/2012*

Kai Lo *10/22/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-029

Equipment ID No. *32 RHR PUMP* Equip. Class[1] *6*

Equipment Description *32 RHR PUMP*

Photographs

Note: *32 RHR Pump*

Note:

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-030

Equipment ID No. *32 SW PUMP* Equip. Class[1] *6*

Equipment Description *SERVICE WATER PUMP NO. 32*

Location: Bldg. *IS* Floor El. *15'-0"* Room, Area

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☐

   Yes, the anchorage configuration verification is required.

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

   Yes the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchor.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-030

Equipment ID No. *32 SW PUMP* Equip. Class[1] *6*

Equipment Description *SERVICE WATER PUMP NO. 32*

5. Is the anchorage configuration consistent 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☐

   Yes, the anchorage configuration is consistent with plant documentation, see references under comments section.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   Yes soft targets are free from impact by nearby equipment or structures.

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

   Ceiling of the area consists of grating which did not seem to be attached to the support steel. The grating was noted to be resting on support steel. During a seismic event the grating may fall and impact the equipment.

   It was determined that the grating is adequately supported and would not be displaced by a seismic event.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-030

Equipment ID No. *32 SW PUMP* Equip. Class[1] *6*

Equipment Description *SERVICE WATER PUMP NO. 32*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
9321-F-22423-9 Yard Area, Restraint and Support Design Lines 1081, 1082, 1083, 1084, 1085 and 1086
SWEWS Worksheet 32 SERVICE WATER PUMP
IP3V-0209-0064 R1 General Arrangement
9321-F-20123-13 Intake Structure, General Arramgemetn, Sections
9321-F-10113-8 Intake Structure Concrete Top Slab Plan
CR-IP3-2012-02710
AWC-010

Evaluated by: Paul Huebsch Date: *10/12/2012*

Maggie Farah Date: *10/12/2012*

Kai Lo Date: *10/12/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-030

Equipment ID No. *32 SW PUMP* Equip. Class[1] *6*

Equipment Description *SERVICE WATER PUMP NO. 32*

Photographs

NO PHOTOS WERE TAKEN	
Note:	**Note:**

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-031

Equipment ID No. *36 SW PUMP* Equip. Class[1] *6*

Equipment Description *SERVICE WATER PUMP NO. 36*

Location: Bldg. *IS* Floor El. *15'-0"* Room, Area

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☐

   Yes, the anchorage configuration verification is required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   Yes, the anchorage is free of visible cracks in the concrete near the anchors.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-031

Equipment ID No. *36 SW PUMP* Equip. Class[1] *6*

Equipment Description *SERVICE WATER PUMP NO. 36*

5. Is the anchorage configuration consistent 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☐

   Yes, the anchorage configuration is consistent with plant documentation. See references listed under Comment section.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   Ceiling of the area consists of grating which, if not attached to the support steel could fall and impact the equipment. It was determined that the grating is adequately supported and would not be displaced by a seismic event.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**
Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-031

Equipment ID No. *36 SW PUMP* Equip. Class[1] *6*

Equipment Description *SERVICE WATER PUMP NO. 36*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
9321-F-22423-9 Yard Area, Restraint and Support Design Lines 1081, 1082, 1083, 1084, 1085 and 1086
SWEWS Worksheet 32 SERVICE WATER PUMP
IP3V-0209-0064 R1 General Arrangement
9321-F-20123-13 Intake Structure, General Arramgemetn, Sections
9321-F-10113-8 Intake Structure Concrete Top Slab Plan
9321-F-20014-3 Ristroph Traveling Screens, Intake Structure, Screen Wash Piping, Plan, Mechanical
AWC-010

Evaluated by: *Paul Huebsch* Date: *10-12-2012*

Maggie Farah *10-12-2012*

Kai Lo *10-12-2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-031

Equipment ID No. *36 SW PUMP* Equip. Class[1] *6*

Equipment Description *SERVICE WATER PUMP NO. 36*

Photographs

NO PHOTOS WERE TAKEN	
Note:	**Note:**

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 1 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-032

Equipment ID No. *31 DG FUEL XFER PUMP* Equip. Class[1] *6*

Equipment Description *F.O. TRANSFER PUMP*

Location: Bldg. *YD* Floor El. *38'-6"* Room, Area

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☐

   Yes the anchorage configuration verification is required.

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

   Yes, the anchorage is free of bent, broken, missing or loose hardware.

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

   Yes, the anchorage is free of corrosion that is more than mild surface oxidation.

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

   The pump is fixed to the nozzle on the underground tank and there is no concrete attachment.

[1] Enter the equipment class name from EPRI 1025286, Appendix B: Classes of Equipment.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 2 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-032

Equipment ID No. *31 DG FUEL XFER PUMP* Equip. Class[1] *6*

Equipment Description *F.O. TRANSFER PUMP*

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

   Yes, the anchorage configuration is consistent with plant documentation.

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

   Yes, based on the above anchorage evaluations, the anchorage is free of potentially adverse seismic conditions.

Interaction Effects

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

   Yes, soft targets are free from impact by nearby equipment or structures.

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

   Yes, overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls are not likely to collapse onto the equipment.

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

   Yes, attached lines have adequate flexibility to avoid damage.

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

    Yes, based on the above seismic interaction evaluations, the equipment is free of potentially adverse seismic interaction effects.

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 3 of 4 **IP3**

Status: Y☒ N☐ U☐

Seismic Walkdown Checklist (SWC) SWEL1-032

Equipment ID No. *31 DG FUEL XFER PUMP* Equip. Class[1] *6*

Equipment Description *F.O. TRANSFER PUMP*

Other Adverse Conditions

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

    Yes, we have looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment.

Comments (Additional pages may be added as necessary)

References:
SEWS Sheet F.O. Transfer Pump
9321-05-20324 Model VITX-SD 3x6JLC/4STG
9321-F-22513-9 Diesel Generator Building General Arrangement, Elevations
9321-F-22503-7 Diesel Generator Building General Arrangement, Plans
AWC-037

Evaluated by: *Stephen Yuan* Date: *10/23/2012*

Paul Huebsch Date: *10/23/2012*

ATTACHMENT 9.6 **SEISMIC WALKDOWN CHECKLIST FORM**

Sheet 4 of 4 **IP3**

Status: Y☒ N☐ U☐

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

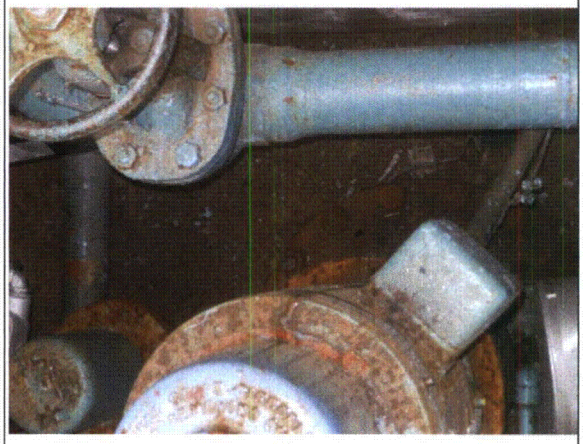
Equipment ID No. *31 DG FUEL XFER PUMP* Equip. Class[1] *6*

Equipment Description *F.O. TRANSFER PUMP*

Photographs

Note: *View of pump*

Note: *View of pump*



Note: *View of pump*

Note: