LIST OF REGULATORY COMMITMENTS

The following table identifies those actions committed to by Detroit Edison in this document. Any other statements in this submittal are provided for information purposes and are not considered to be regulatory commitments. Please direct questions regarding these commitments to Mr. Zackery W. Rad, Manager – Nuclear Licensing, at (734) 586-5076.

REGULATORY COMMITMENTS	DUE DATE/EVENT
Assets, not currently available for inspection, will be inspected no later than during refueling outage 16 (RF16), currently scheduled for the first quarter of 2014. These assets are listed in Appendix E of the Fermi 2 Seismic Walkdown Report.	RF16 (currently scheduled for the first quarter of 2014)
Inspection results for unavailable assets will be submitted within 90 days of the refueling outage.	90 days following completion of RF16.

Fermi 2 NPP

Seismic Walkdown Report

10 CFR 50.54(f) Section 2.3 Seismic Response

Prepared By: William Harvey / W Harvey 11-20-12
Print/Signature Date

Reviewed By: R.L. Tasse II / Marc Meyer 11.20.12 11/20/12
Print/Signature Date

Peer Review: G. ABDALLAH / 11/20/12
Print/Signature Date

Approved By: Bob Keck / Bob Keck 11/20/2012
Print/Signature Date

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Background

Following the accident at the Fukushima Daiichi nuclear power plant resulting from the March 11, 2011, Great Tohoku Earthquake and subsequent tsunami, the NRC established the Near Term Task Force (NTTF) in response to Commission direction. The NTTF issued a report that made a series of recommendations to the Commission. The Commission prioritized these recommendations in three tiers. Tier 1 recommendations were to be acted upon "without unnecessary delay." Subsequently, the NRC issued a 50.54(f) Letter (Reference 8) that requests information to assure that these recommendations are addressed by the U.S. nuclear power plants. EPRI prepared Technical Report 1025286, entitled "Seismic Walkdown Guidance" (Reference 1), to provide guidance to conduct Seismic Walkdowns required in the 50.54 (f) Letter, Enclosure 3, Recommendation 2.3: Seismic Walkdowns. Reference 3 is a letter from the NRC endorsing EPRI Technical Report 1025286 as a satisfactory response to the 50.54(f) Letter. Per the NRC, every U.S. nuclear power plant is required to perform Seismic Walkdowns to identify and address degraded, nonconforming or unanalyzed conditions and to verify the current plant configuration with the current seismic licensing basis.

Guidance

EPRI Technical Report 1025286 (Ref. 1) provides guidance and procedures to perform the Recommendation 2.3, Seismic Walkdowns. The EPRI Guidance Document 1025286 was used as guidance for selection of a sample of systems and components that represent diversity of component types and assure inclusion of components from critical systems/functions discussed in the NRC letter, selection of personnel, conduct of the Walkdowns, evaluations against the plant seismic licensing basis, and preparation of this report. Walkdown Checklists (Reference 13) used by the Seismic Walkdown Engineers were developed from checklists in the EPRI Guidance Document.

Purpose

The purpose of this document is to report the process, findings, and resolution of issues for the Seismic Walkdowns at Fermi 2. The findings are summarized in the attached Walkdown checklists (Appendices C and D) and identified issues are tracked by 27 Condition Assessment Resolution Documents (CARDs) listed in Tables 5-2 and 5-3.

Findings

The Seismic Walkdowns and packages for Rev 0 of this report, as defined in EPRI Technical Report 1025286 (Reference 1), are complete and all seismic related findings are reported in 27 CARDs listed in Table 5-2 and 5-3. Appendices C and D provide checklists for 90 Walkdowns and 50 Walk-Bys. No licensing changes are required as a result of this study.

Future Work

Thirteen (13) assets listed in Table E-1 are not available for inspection during current plant operation, because the assets are either energized electrical panels or inaccessible, located in the Drywell and Steam Tunnel. Divisional outages are required to open the switchgear. An extended plant outage is required to enter the Drywell or Steam Tunnel. Assets, not currently available for inspection, will be inspected no later than during RF16, currently scheduled for the first quarter of 2014. Results of these inspections will be submitted within 90 days of the refueling outage.

Conclusions

A Peer Review of the submittal report was performed by the Peer Review Team, and it was found to conform to the objectives and requirements of the 10 CFR 50.54(f) Letter.

The Seismic Walkdowns and Area Walk-Bys identified 27 Potentially Adverse Seismic Conditions. All of the issues identified are addressed by the plant CARD system, and none required a licensing basis evaluation. None of the 27 CARDs generated as a result of these Walkdowns were determined to have an immediate impact to the safe operation of the plant. No Engineering Design Packages were planned as a result of the Seismic Walkdown Program. Two CARDS resulted in Technical Service Requests (TSRs) which resolve field discrepancies.

The plant process improvements that resulted from the Individual Plant Examination of External Events (IPEEE) program in 1995 were confirmed to be effective. No issues were identified with the 20 assets selected from the IPEEE outlier population. However, several assets, other than the IPEEE outlier population, had conditions such as missing bolts and lighting fixture deficiencies identified during the Walkdowns and Walk-Bys. This issue has been entered into the corrective action program.

1 Introduction

1.1 BACKGROUND

In response to Near-Term Task Force (NTTF) Recommendation 2.3, the Nuclear Regulatory Commission (NRC) issued a 10CFR50.54(f) Letter on March 12, 2012 (Reference 8) requesting that all licensees perform Seismic Walkdowns to identify and address plant degraded, non-conforming, or unanalyzed conditions, with respect to the current seismic licensing basis. The Nuclear Energy Institute (NEI), through the Electric Power Research Institute (EPRI), prepared industry guidance to assist licensees in responding to this NRC request. The industry guidance document, EPRI Technical Report 1025286, Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic, dated June 2012 (Reference 1), was endorsed by the NRC on May 31, 2012 (Reference 3). The Fermi 2 Nuclear Plant and Detroit Edison have committed to using this NRC-endorsed guidance as the basis for these Walkdowns and this report.

1.2 PLANT OVERVIEW

The Fermi 2 Nuclear Plant consists of an operating Boiling Water Reactor (BWR) generating unit, located in Newport, MI. The operating unit has a GE Mark I containment, is rated at 3430 MWt power (Facility Operating License No. NPF-43), and was built for the Detroit Edison Company. Fermi 2 was completed and received a full power license on July 15, 1985, Fermi 2 Power Station Updated Final Safety Analysis Report (UFSAR) Section 1.1 (Reference 2).

1.3 APPROACH

The EPRI Seismic Walkdown Guidance (Reference 1) is used for the Fermi 2 Generating Station Unit engineering Walkdowns and evaluations described in this report. In accordance with the EPRI Seismic Walkdown Guidance, the following topics are addressed in the subsequent sections of this report:

- Seismic Licensing Basis
- Personnel Qualifications
- Selection of SSCs
- Seismic Walkdowns and Area Walk-Bys
- Licensing Basis Evaluations
- IPEEE Vulnerabilities Resolution Report
- Peer Review

2 Seismic Licensing Basis

2.1 OVERVIEW

This section of the report summarizes the seismic licensing basis for the Fermi Generation Station Unit 2, as described in detail in Fermi 2 USFAR (Reference 2) and other pertinent design documents, Design Basis Document XXX-03 and Design Specification 3071-296 (References 19 and 20). The Safe Shutdown Earthquake (SSE) and a summary of the codes, standards, and methods used in the design of Seismic Category I SSCs are presented. Regulatory Action and Commitment Tracking Systems (RACTS) was reviewed on October 9, 2012, to ensure that there are no outstanding commitments on seismic issues. The database was searched for system number A3300 (Seismic Design). All commitments had a "one-time – completed" status. No open commitments on seismic design basis were found. The Licensing database for SERs was reviewed to ensure that all SERs are included in the UFSAR.

2.2 SAFE SHUTDOWN EARTHQUAKE (SSE)

The Safe Shutdown Earthquake response spectra for the Fermi 2 Generating Station site are anchored at zero period accelerations of 0.15g horizontal ground acceleration and 0.1g vertical acceleration. The ground response spectra of a SSE are shown in UFSAR Section 3.7.1 and Figure 3.7-3 (Reference 2). Vertical ground motion is taken as 2/3 of the maximum horizontal ground acceleration, UFSAR Section 3.7.1.1. The development of the current licensing basis floor response spectra used for the seismic design/qualification of Fermi 2 Safety Related SSCs, is as described in UFSAR Section 3.7.2.6.

2.3 DESIGN OF SEISMIC CATEGORY I STRUCTURES, SYSTEMS AND COMPONENTS (SSCs)

2.3.1 Seismic Summary

For seismic analysis, design, and qualification purposes, Safety-Related Structures, Systems, and Components (SSCs) are categorized as Seismic Category I. Plant Structures, Systems, and Components, including their foundations and supports, that are designed to remain functional in the event of a Safe Shutdown Earthquake (SSE) are described in Regulatory Guide 1.29 (Reference 21), and designated as Seismic Category I. Details of the SSC categorization per Regulatory Guide 1.29 are presented in UFSAR, Section 3.2 and Table 3.2-1 (Reference 2).

The Seismic Licensing Basis contained in the Fermi 2 USFAR (Reference 2) and other design documents (References 19 and 20) provide protection and mitigation features to assure that Seismic Category I Structures, Systems and Components continue to

operate during and after an Operating Basis Earthquake (OBE) and perform their important to safety function during and after a Safe Shutdown Earthquake (SSE).

Fermi 2 site characteristics, including geology and seismology are included in USFAR, Section 2 (Reference 2). The Seismic Category I structures of Fermi 2 foundations are built on bedrock. The maximum horizontal ground acceleration for the Operating Basis Earthquake (OBE) ground response spectrum is 0.08g, and the maximum vertical ground acceleration is 0.05g. As mentioned earlier, the maximum horizontal ground acceleration for the Safe Shutdown Earthquake is 0.15g, and the maximum vertical ground acceleration is 0.1g, UFSAR Section 3.7.1.1.

The shapes of the OBE and SSE horizontal ground acceleration spectra conform to the 1940 El Centro, California earthquake spectra with minor modifications to accommodate the 1935 Helena, Montana and the 1949 Olympia, Washington earthquakes, UFSAR Section 3.7.1.2.1 and Figures 3.7-2 and 3.7-3.

The Reactor/Auxiliary Building is a single structure consisting of two parts identified separately as the Reactor Building, and the Auxiliary Building.

The Reactor Building houses the Drywell, suppression chamber, refueling and reactor servicing equipment, biological shield, and the spent fuel storage facilities. The building consists of reinforced concrete and structural steel supported on the Reactor Building foundation mat. [The Reactor Building is a secondary containment, that minimizes and controls the release of airborne radioactive materials.]

The Auxiliary Building houses several major safety-related systems and components. The Auxiliary Building consists of reinforced concrete and structural steel supported on a reinforced concrete mat. The building is integrally connected to the Reactor Building, and is separated from the Turbine Building by a four inch seismic rattle space, UFSAR Section 3.8.4.1.1.2.

The Residual Heat Removal (RHR) Complex is a reinforced concrete structure, supported on a base mat that serves as the ultimate heat sink for the reactor during normal shutdown and during postulated accident conditions. The complex is divided into two divisions, each with the capacity to safely shut down the reactor during normal and accident conditions. Each division of the RHR Complex houses RHR service water, emergency equipment service water, diesel generator service water system, two emergency diesel generators, a mechanical draft cooling tower, and an RHR reservoir, UFSAR Section 3.8.4.1.2.

UFSAR Section 3.7 describes the seismic analyses and design of Seismic Category I structures. The buildings were modeled as slab-spring systems with lumped masses. The slabs are treated as infinitely rigid in their own planes and are interconnected by weightless, linear elastic springs, used to simulate the stiffness of shear walls within the structural system. These mathematical models were dynamically analyzed using the defined time-histories of acceleration and assigned damping values to determine the seismic response loads on structural components.

The dynamic analyses generated a series of level (floor and wall) response spectra at various damping values of interest. These level response spectra are used to provide inputs to the analysis/design of piping systems, sub-systems and for seismic

qualification of Seismic Category I equipment. These spectra are contained in Section 3.7 of the UFSAR. The loads, load combinations, and the acceptance criteria used to design structural components are included in UFSAR Section 3.8. UFSAR Tables 3.8-18, 3.8-19 and 3.8-20 provide loads, load combinations and acceptance criteria for structural steel and reinforced concrete structural components.

UFSAR Section 3.9 describes the analysis and design of the Seismic Category I Mechanical Systems and Components. In addition to a Code required analyses description, this section also provides a detailed description of the in-situ vibration testing performed on Fermi 2 piping systems.

UFSAR Section 3.10 covers qualification of Seismic Category I instrumentation and electrical components. Seismic qualifications of equipment are performed in accordance with IEEE 344-1971 (Reference 22) except components purchased after the issuance of IEEE 344-1975 (Reference 23) are specified to be qualified in accordance with that standard. Appropriate response spectra from the Fermi UFSAR Figures 3.7-32 through 115 are provided by Fermi 2 to equipment vendors for qualification. Seismic qualifications by means of analyses or testing were performed. Qualification reports were reviewed and accepted by Fermi 2 Engineering to ensure that acceptable methodology and correct response spectra were used.

A listing of applicable codes, standards, and specifications used in the design of the Safety Related Seismic Category I SSCs is contained in UFSAR Table 3.2-1, Section 3.8, Appendix A, and other design documents.

Some major representative standards, codes and specifications (References 2, 19, 20 and 24) used at Fermi 2 are also reiterated herein:

2.3.2 Applicable Codes

Code or Specification	**Title**	**Edition**
ACI 318-63 ACI 318-71	Building Code Requirements for Reinforced Concrete Both editions were used.	June 1963 February 1971
CRSI	Manual of Standard Practice	19th Edition
UBC	Uniform Building Code	1970
AISC-63 AISC-69	Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings	1963 1969
AISI	Specification for the Design of Light Gage Cold-Formed Steel Structural Members	1968
AWS D1.1-72	Structural Welding Code	1972
ASME	ASME Boiler and Pressure Vessel Code, Subsection NE of Section III	1971 with Summer of 1972 Addenda

ASME	ASME Boiler and Pressure Vessel Code Material Specifications, Part A – Ferrous	1972
ASTM	Annual Books of ASTM Standards	1972
ANSI B31.1.0	Standard Code for Pressure Piping, Power Piping	1967
ANSI B31.7	Nuclear Power Piping	1969
IEEE 308-1971	IEEE Criteria for Class 1E Electric System, for Nuclear Power Generating Station	1971
IEEE 317-1971	IEEE Standard for Electric Penetration Assemblies in Containment Structures for Nuclear Power Generating Stations	1971
IEEE 344-1971	Guide for Seismic Qualification of Class I Electrical Equipment for Nuclear Power Generating Stations	1971
IEEE 344-1975	Recommended Practices for Seismic Qualification of Class IE Equipment for Nuclear Power Generating Stations	1975

3 Personnel Qualifications

3.1 Overview

This section of the report identifies personnel that participated in NTTF 2.3 Seismic Walkdown efforts. A description of the responsibilities of each Seismic Walkdown participant's role(s) is provided in Section 2 of the EPRI Seismic Walkdown Guidance (Reference 1). Relevant biographies are included in Section 3.2 below.

3.2 Walkdown Personnel

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

Table 3-1 Personnel Roles

Name	Equipment Selection Personnel	Plant Operations	Seismic Walkdown Engineer (SWE)	IPEEE Reviewer	Peer Reviewer
Plackeel Eapen	X				
James Boyle	X				
Kirk Snyder	X	X			
Gregory Strobel	X	X			
Marc Meyer			X		
Rohit Vadhar			X		
Scott Bauer			X		
David Dickinson			X		
Joseph LaVere			X		
Michael Sasso			X		
Enver Odar (note 2)				X	
George Abdallah (note 1, 2 and 3)					X
Whitney Hemingway (note 3)					X

Notes: 1. Peer Review Team Leader.
2. EPRI certified SWE.
3. PSE-53 qualified SWE, but did not function as a SWE.
4. Licensing Basis Reviewers were not required.

The qualifications and experience of the Equipment Selection Personnel are listed below:

Plackeel K. Eapen – Equipment Selection Personnel

Dr. Eapen is a Mechanical Engineer in the Nuclear Projects group at Fermi. Dr. Eapen earned his Ph.D (Nuclear Physics & Engineering) from Southern Methodist University. He has over 40 years of experience in the design, construction, testing and operation of Nuclear Power Plants in the US and overseas. Dr. Eapen was the seismic coordinator for D.C. Cook Nuclear Plant and he successfully managed seismic reviews and design efforts with consultation from Dr. John Stevenson. Dr. Eapen was a construction Inspector of the US Nuclear Regulatory Commission and was responsible for overseeing Engineering activities at Region I plants. Throughout his career, Dr. Eapen was responsible for verifying conformance of field conditions of nuclear power plant systems, structures and components to the applicable design documents and records.

James T. Boyle – Equipment Selection Personnel

Mr. Boyle is a Mechanical Engineer in the Nuclear Projects group at Fermi. Mr. Boyle received a Bachelor of Science in Mechanical Engineering from the University of Maryland in College Park, Maryland. He has over 38 years of experience in the design, construction and testing of nuclear power plants in the U.S. and Canada. Throughout most of his career he was involved in start-up testing of both fossil and nuclear power plants. Mr. Boyle has been involved with field walk downs during all phases of his career.

Mr. Boyle's field testing, including installation testing, is extensive and covers mechanical, I&C and electrical testing. Mr. Boyle wrote and conducted Loss of Off Site Power tests at Waterford (PWR) and Clinton (BWR) Nuclear Power Plants.

Kirk Snyder – Equipment Selection Personnel and Plant Operations

Mr. Snyder is a Nuclear Engineering Manager at Fermi. Mr. Snyder has over 38 years of experience in the nuclear field including 29 years at Fermi. Mr. Snyder received his Reactor Operator License in 1987 and his Senior Reactor Operator (SRO) License in 1990. Mr. Snyder was a Shift Manager at Fermi for over 11 years ending in 2006. In 2006 he assumed the position of System Engineering Manager where he continued to work closely with Operations on improving plant performance. Mr. Snyder has been an Engineering Manager since 2006, except for a temporary assignment as Training Manager in 2009. Mr. Snyder worked closely with the Operations Manager in the approval of the SWEL list.

Greg Strobel – Equipment Selection Personnel and Plant Operations

Mr. Strobel is the Operations Manager at Fermi. He was a licensed SRO for 11 years. Mr. Strobel has worked at Fermi 2 for 23 years and he is familiar with all aspects of the station operating procedures. The Operations Manager provided final approval of the SWEL lists.

The list of Personnel Qualified by the Fermi Training Program Standard PSE-53 Seismic Engineer Walkdown is in Appendix A. Standard PSE-53 is based on the

training materials provided as part of the June 27, 2012 NTTF Recommendation 2.3 – Seismic Walkdown and Area Walk-by EPRI training. The qualifications and experience of the Seismic Walkdown Engineers (SWEs) are listed below.

Marc Meyer - Seismic Walkdown Engineer

Mr. Meyer is a Civil-Stuctural Engineer in the Nuclear Projects group at Fermi. Mr. Meyer received a Bachelor of Science in Civil Engineering from the University of Wisconsin, Madison, where his major was structural engineering. He has over 40 years' experience in a broad range of engineering and related technical activities associated with civilian nuclear power plants and government nuclear facilities. For the past 14 years, he has been performing seismic analyses of safety related systems, structures, and components. Among seismic calculations performed were analyses using methodology described in the Seismic Qualification Utility Group's (SQUG) Generic Implementation Procedure (GIP) for Seismic Qualification of Nuclear Plant Equipment.

Mr. Meyer was trained, certified, and qualified to implement GIP methodology in October of 2001. Following receipt of his SQUG certification, Mr. Meyer revised the UFSAR for the Prairie Island nuclear station to permit the use of GIP methodology to seismically analyze and qualify safety related equipment including their supports. During his tenure at Prairie Island, he used GIP methodology to seismically evaluate anchor bolts, tanks, cable tray supports, motor control centers, and instrument racks. At the Fermi 2 nuclear power plant, he originated, revised, and reviewed numerous calculations requiring seismic analysis. Mr. Meyer completed the NTTF 2.3 Seismic Walkdown Training Course, and received the PSE-53 Qualification as a SWE.

Rohit Vadhar – Seismic Walkdown Engineer.

Mr. Vadhar is a Civil-Structural Engineer. Mr. Vadhar received a Bachelor of Science in Civil Engineering from the University of Tennessee, Knoxville. He has over 30 years of experience in the design of the pipe support structures for U.S. nuclear power plants. He has been involved in refueling outages for Salem Units 1 and 2 and the Hope Creek Station.

Mr. Vadhar was a Lead Pipe Support Engineer on major projects such as the Service Water replacement for the Salem Generating Station Units 1 and 2, which was a multi-year program. He was involved with all design phases, including construction support and craft interface.

Mr. Vadhar is certified as Seismic Capability Engineer (SCE) for Seismic Qualification Utility Group, SQUG. He has performed SQUG Walkdown for existing cable tray/supports at Salem Units 1 and 2. He has worked on GTSTRUDL, FAPPS (ME-150), MAPPS (ME-153), SMAPPS (ME-152) BASEPLATE (ME-035), MathCad, Smartsketch and BAP programs. Mr. Vadhar completed the NTTF 2.3 Seismic Walkdown Training Course, and received the PSE-53 Qualification as a SWE.

Scott Bauer - Seismic Walkdown Engineer

Mr. Bauer is a Structural Engineer. Mr. Bauer received a Master of Science in Structural Engineering and Mechanics of Materials from University of California Berkeley and a Bachelor of Science from University of California, Los Angeles. He has over 7 years of

experience in the design and analysis of nuclear power plant structures, systems, and components (SSCs) for nuclear power plants throughout the USA, as well as other structures at a variety of industrial facilities. Throughout his career, he has designed numerous reinforced concrete and steel structures for use in industrial facilities and nuclear power plants located in high seismic zones. Mr. Bauer has assisted numerous industrial facilities address the walkdown and analytical requirements set forth in the CalARP Seismic program, a state program involving the inspection and evaluation of industrial SSCs for their resistance to accidental release of regulated substances due to (primarily) seismic events. This involved conducting walkdowns and post-walkdown analyses of the facilities' SSCs, identifying assets that could potentially be deficient for a postulated seismic event, and recommending specific repairs. As a member of a field team, he has identified deficiencies in electrical equipment, piping, vessels required for safe shutdown at industrial facilities, and their supporting structures. He has further performed detailed analyses of SSCs at industrial facilities and nuclear power plants to quantify the risk of items identified as potentially deficient in performing their functions during and after a postulated seismic event.

Mr. Bauer is a member of AISC and a longtime member of ASCE. He is a registered Professional Engineer in the State of California. Mr. Bauer completed the NTTF 2.3 Seismic Walkdown Training Course, and received the PSE-53 Qualification as a SWE.

David G Dickinson - Seismic Walkdown Engineer

Mr. Dickinson is a Civil-Structural Engineering Manager in the URS Warrenville Office. Mr. Dickinson received a Bachelor of Science in Civil Engineering from Sheffield University in Sheffield, UK. He has over 25 years of experience in the design and maintenance of the Structures, Systems and Components (SSCs) for Nuclear Power Plants in the US, and over 20 years' experience in construction and general engineering of Heavy Industrial buildings. Throughout his career in the Nuclear Industry he was involved with the Seismic design and analysis for Safety Related SSCs including the modeling and dynamic seismic analyses of structures, and review and acceptance of Vendor equipment qualification documents based on analysis or shake table test results.

Mr. Dickinson is a Licensed Structural Engineer (SE) in the State of Illinois, and a Licensed Professional Engineer (PE) in the States of Delaware, Michigan, Iowa, Maryland and Kentucky. He is also a Chartered Engineer (CEng) in the UK, and a member of the Institution of Structural Engineers (MIStructE) in the UK. Mr. Dickinson has completed the NTTF 2.3 Seismic Walkdown Training Course, and received the PSE-53 Qualification as a SWE.

Joseph LaVere - Seismic Walkdown Engineer

Mr. LaVere is a Structural Design Engineer. Mr. LaVere received a Master of Science in Civil Engineering from Wayne State University in Detroit, MI. Mr. LaVere's coursework at Wayne State University included structural dynamics for building structures. Mr. LaVere has 8 years of structural design and consulting experience. He has experience at the Fermi II Nuclear Power Plant in the evaluation and modification of Q1 Safety Related cable tray support structures, the evaluation of building floor slabs and other components in the reactor building, and design of Non-Safety Related HVAC support structures. Mr. LaVere completed the NTTF 2.3 Seismic Walkdown Training Course, and received the PSE-53 Qualification as a SWE.

Michael P. Sasso - Seismic Walkdown Engineer

Mr. Sasso is a Civil Engineer in the Nuclear Projects group at Fermi. Mr. Sasso received a Bachelor of Science in Civil Engineering from the University of Akron, in Akron, Ohio. He is a Registered Professional Engineer in the State of Ohio.

Mr. Sasso has over 18 years of experience in Structural Engineering with the last 4 years of experience in the design and maintenance of Nuclear Power Plant Structures, Systems and Components (SSCs). He has performed numerous walkdowns inspecting scaffolds for potential seismic and thermal interactions with equipment to ensure that they are properly restrained. He has been involved with the seismic evaluations of various for Safety Related SSCs and has been responsible for the modeling and dynamic seismic analyses of structural components.

In addition, Mr. Sasso attended several structural courses that are relevant to seismic dynamics and response behavior of components. Mr. Sasso also served on the Akron District Society of Professional Engineers, Board of Directors & Treasurer. Mr. Sasso completed the NTTF 2.3 Seismic Walkdown Training Course, and received the PSE-53 Qualification as a SWE.

No Licensing Basis issues were identified; therefore, no Licensing Basis reviewers were required. All concerns were addressed with CARDs.

The qualifications and experience of the IPEEE Reviewer is listed below:

Enver Odar – IPEEE Reviewer

Mr. Odar is the Civil/Structural Supervisor in the Nuclear Projects group at Fermi. Mr. Odar received a Master of Science in Civil Engineering from Lehigh University in Bethlehem, PA. He has over 40 years of experience in the design and maintenance of the Structures, Systems and Components (SSCs) for nuclear power plants in the U.S. and abroad. Throughout his career he was involved with the Seismic Considerations for Safety Related SSCs and was responsible for the modeling and dynamic seismic analyses of structures, development of Floor Response Spectra and review and acceptance of vendor equipment qualification documents based on analysis or shake table test results. Mr. Odar has witnessed numerous shake table tests at various labs and facilities.

Mr. Odar was a working group member to revise ASCE 4-98 "Seismic Analysis of Safety – Related Nuclear Structures and Commentary", and he was on a Task Force to initiate IEEE 344 and ASME-QME revisions to include seismic experience based approach for equipment seismic qualification.

Mr. Odar is a Fellow of ASCE, and a longtime member of the Seismological Society of America and the Earthquake Engineering Research Institute. He is a registered Professional Engineer in a number of states including Michigan.

Mr. Odar attended June 27, 2012 NTTF Recommendation 2.3-Seismic Walkdown and Area Walk-by EPRI training and completed the NTTF 2.3 Seismic Walkdown Training Course, and was certified by EPRI as a SWE. Mr. Odar assisted with the Fermi PSE-53 Course Instruction.

The qualifications and experience of the Peer Reviewers are listed below:

George Abdallah – Seismic Walkdown Peer Reviewer Team Lead

Mr. Abdallah is currently the Civil/Structural Lead Engineer in the Plant Support Engineering group at Fermi. Mr. Abdallah received a Master of Science in Civil Engineering from the University of Illinois at Chicago. He has over 32 years of experience in the design of the Structures, Systems and Components (SSCs) for Nuclear Power Plants, with Architect Engineers and Utilities. Throughout his career he was involved with the Seismic Considerations for Safety Related SSCs and was responsible for the modeling and analyses of structures, review and acceptance of vendor seismic equipment qualification based on analysis or shake table test results. Mr. Abdallah has previously witnessed shake table tests.

Mr. Abdallah completed the SQUG Walkdown Screening and Seismic Evaluation Training Course held June 22-26, 1992. Also, Mr. Abdallah completed the EPRI Seismic IPE Add-On Training Course held July 27-29, 1992.

Mr. Abdallah attended June 27, 2012 NTTF Recommendation 2.3-Seismic Walkdown and Area Walk-by EPRI training and completed the NTTF 2.3 Seismic Walkdown Training Course, and was certified by EPRI as a SWE. Mr Abdallah was the Fermi PSE-53 Course Instructor and received the PSE-53 Qualification as a SWE at Fermi.

Whitney Hemingway – Seismic Walkdown Peer Reviewer

Mr. Hemingway is currently an Associate Nuclear Engineer in the Mechanical/Civil Plant Support Engineering group at Fermi. Mr. Hemingway received a Bachelor of Engineering in Civil Engineering from the University of Michigan, Ann Arbor, with a concentration in structural engineering in May 2011. His coursework included Design of Steel Structures, Reinforced Concrete Design, Structural Analysis, and Structural Dynamics.

Mr. Hemingway has worked at Fermi 2 in the Plant Support Engineering Mechanical/Civil department since June of 2011. He routinely participates in inspecting scaffolds that violate seismic rattlespace requirements and require approval from Plant Support Engineering. He has helped review several seismic qualification reports for equipment in the plant.

Before working at Fermi 2, Mr. Hemingway worked as an intern at Century Southern Engineers, a structural engineering firm in Spartanburg, South Carolina. Mr. Hemingway completed the NTTF 2.3 Seismic Walkdown Training Course, and received the PSE-53 Qualification as a SWE.

4 Selection of SSCs

4.1 OVERVIEW

This section of the report describes the process used to select structures, systems, and components, (SSCs) that were included in the Seismic Walkdown Equipment List (SWEL). The actual equipment lists that were developed in this process are found in Appendix B

4.2 SWEL DEVELOPMENT

The selection process of SSCs described in EPRI Technical Report 1025286, Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic, dated June 2012 (Reference 1), was utilized to develop the SWEL for Fermi 2.

The SWEL is comprised of two groups of assets:

- SWEL 1 is a sample of assets whose function is to safely shut down the reactor and maintain containment integrity
- SWEL 2 is a sample of spent fuel pool related assets

Revision 1 of SWEL 1 and 2 are included in Tables B-2 and B-4 of this report, which include columns to identify the attributes used in selection of the assets discussed below.

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

SWEL 1 (Table B-2) was developed by screening the selection of the SSCs to safely shut down the reactor and maintain containment integrity, using the following four (4) screening criteria in accordance with Reference 1, Figure 1-1.

- Seismic Category I
- Equipment or Systems
- Support for the 5 Safety Functions
- Sample Considerations

Screen 1 - Seismic Category I
Only Seismic Category I SSCs were considered for SWEL 1. Seismic Category I components have a defined seismic licensing basis that can be evaluated against the plant as-built configuration.

Screen 2 - Equipment or Systems
SSCs that regularly undergo inspections to confirm their configuration is consistent with the design basis were excluded from SWEL 1. SSCs excluded are Seismic Category I

Structures, Containment Penetrations and Seismic Category I Piping and Support Systems.

- Seismic Category I Structures

Seismic Category I Structures were exempted from SWEL 1. However, structural spatial interactions were considered during Walkdowns and Walk-Bys as specified in Appendix D of EPRI Technical Report 1025286 (Reference 1).

- Containment Penetrations

Components required to isolate containment were considered for SWEL 1; however, all containment penetrations were excluded per the EPRI Technical Report 1025286 Section 3 Screen 2.

- Seismic Category I Piping and Support Systems

Piping Systems are exempted from SWEL 1 since they are periodically walked down by plant engineers and their licensing basis is managed by the In-Service Inspection (ISI) program.

Screen 3 - Support for the five (5) Safety Functions
SSCs which are associated with the following five safety functions were included in SWEL 1 selection. The first four functions are associated with bringing the reactor to a safe shutdown condition and the fifth is associated with maintaining containment integrity:

- Reactor Reactivity Control (61 assets)
- Reactor Coolant Pressure Control (70 assets)
- Reactor Coolant Inventory Control (89 assets)
- Decay Heat Removal Control (63 assets)
- Containment Function (56 assets)

SSCs associated with these five safety functions were selected using previous equipment lists evaluated in the Individual Plant Examination for External Event (IPEEE) (Reference 4) Table 3-3 and from EPRI Seismic Margins Assessment (SMA) such as Appendix B of EPRI NP-6041 (Reference 6).

Previously, Fermi 2 conducted an evaluation of SSCs for the IPEEE program which provided a list (Reference 4, Table 3-3) of safety related equipment and components. This evaluation used IPEEE Program guidance and EPRI SMA guidance which resulted in a list of Safety Related Systems and Components that support the first four safety functions. Containment Function was not evaluated by the IPEEE program; therefore, components associated with Containment Function were added. The components are listed in Table B-1 (Base List 1) which was used as the base list for SWEL 1 selection. Nuclear Steam Supply System (NSSS) equipment located inside containment, and

supports for the equipment and components mounted on or in NSSS equipment are excluded from the program.

Screen 4 - Sample Considerations
Once SSCs had been condensed by the first three screens, a broad population of SSCs was used to select the final sample SWEL 1. The sample SWEL 1 assets were selected using the following general guidance attributes:

- A variety of types of systems (24 Systems).
- Major new and replacement equipment since IPEEE (41 assets).
- A variety of types of equipment (21 equipment groups identified in Appendix B of Seismic Walkdown Guidance Document).
- A variety of environments (Wet–14, Hot-12, Harsh-10, Outside-1).
- Equipment enhanced due to outliers identified during the IPEEE program (20 assets).

The objective was to obtain a sufficient sample size that included a variety of assets identified above. Each general guidance attribute was implemented by also taking into account the following considerations.

1) Various Types of Systems

Equipment was selected from a variety of 24 systems represented by the five functional categories. Types of systems included were primary and support systems identified during IPEEE and SMA evaluations.

2) Major new and replacement equipment

SWEL 1 includes both major new and replaced equipment installed within the past 15 years. This was achieved by reviewing Fermi 2 Equivalent Replacement Evaluation (ERE) documents and Engineering Design Package (EDP) documents issued since the completion of IPEEE evaluations (Reference 4). 41 assets from EREs and EDPs meeting this criterion were included in SWEL 1 selection. The SWEL and Baseline lists include a column identifying the EDP or ERE number and a Y or N to signify that new equipment was or was not installed.

Additionally, plant personnel including Systems Engineers, Operators, and Maintenance were consulted to identify additional SSCs that have had multiple operational and maintenance issues, which were included in the SWEL 1 selection process.

3) Various types of equipment

A variety of equipment was selected to form a sufficient sample size for SWEL 1. The goal was to select at least one asset from each of the twenty two classes of equipment identified in Appendix B of EPRI Technical Report 1025286 (Reference 1). The final list included at least one asset from every equipment class, except Class 13, Motor

Generators. Motor Generators at Fermi 2 are not classified as Safety-Related; and therefore, do not need to be added to the SWEL.

4) Various environments

Equipment selected included a representative cross-section of environmental conditions experienced at Fermi 2. These conditions include environments that are dry and wet, hot and cold, mild and harsh, and inside and outside buildings, including assets inside the Drywell. (Wet–14, Hot-12, Harsh-10, Outside-1)

5) Equipment enhanced as a result of the IPEEE program

A review of potentially adverse seismic conditions, referred to as outliers in the IPEEE program (Reference 4), was performed by the IPEEE Reviewer. A population of 20 assets was added to the SWEL.

Contribution to risk was considered in the selection of assets. Maintenance Rule Conduct Manual MMR04, Revision 3 (Reference 31) defines the Fermi 2 Probabilistic Safety Analysis (PSA) process for determining significant contributors to using Fussell-Vesely Measure and Risk Achievement Worth Measure. MMR Appendix G Revision 0 (Reference 29) lists the Fermi 2 risk significant systems. MMR Appendix E, Revision 14 (Reference 28) lists the risk significant components. Work Control Conduct Manual MWC13 Revision 9 Enclosure H, titled "Valves with Potential to Reduce Reactor Coolant Inventory" (Reference 30) was also used to develop SWEL 1. SWEL 1 (Table B-2) includes a Risk MWC13/MMR column identifying 75 selected assets from MMR Appendix E, four of which are also assets from MWC13 Enclosure H. The assets selected for 5 safety functions were prioritized using MMR Appendix E, Revision 14, which denotes system functions along with the applicable safety functions. SWEL 1 includes 64 assets from 18 of 34 systems listed in MMR Appendix G.

Final screening was performed by Operations personnel and the Peer Reviewers. Consideration was given to maintenance issues, accessibility, environment, location diversity, redundancy, ALARA, and impact on plant operation.

4.2.2 SWEL 2 – Spent Fuel Pool Related Assets

The process for selecting a sample of SSCs associated with the Spent Fuel Pool (SFP) began with a review of the station design and licensing basis documentation including UFSAR Sections 3.8.4, 9.1.2, and 9.1.3 (Reference 2), and drawing M-2048 revision AI, for the SFP and the SFP cooling system. The following four screens narrowed the scope of SSCs to be included on the second Seismic Walkdown Equipment List (SWEL 2):

- Seismic Category I
- Equipment or Systems
- Sample Considerations
- Rapid Drain-Down

1. **Screen 1 - Seismic Category 1**
   All exclusions listed in SWEL 1 for Seismic Category I are applicable to SWEL 2, with the additional exemption that only Seismic Category I SSCs associated with the SFP be captured in SWEL 2, except for the rapid drain-down case.

1. **Screen 2 – Equipment or Systems**
   All exclusions listed in SWEL 1 for equipment and systems are applicable to SWEL 2, with the additional exemption that only SSCs associated with the SFP be captured in SWEL 2.

2. **Screen 3 – Sample Considerations**

3. **The same sample considerations are applied to SWEL 2 as discussed in SWEL 1, with the additional exemption that only SSCs associated with the SFP be captured in SWEL 2.Screen 4 - Rapid Drain-Down**

   Assets, that can allow the Spent Fuel Pool to drain rapidly (either Seismic Category I or non-seismic) such as hydraulic lines and associated equipment connected to the SFP, were considered. Per the definition in EPRI Technical Report 1025286 (Reference 1), rapid drain-down is defined as lowering the water level to the top of the fuel assemblies within 72 hours after an earthquake or other seismic event.

   SFP drawings were reviewed to identify all penetrations less than 10 feet above the top of the fuel assemblies. The Spent Fuel Pool is described in Drawings C-2420 revision J, C-2421 revision J, and C-2419 revision L. The Spent Fuel Pool liner elevation is 645'-9". The HOLTEC fuel racks are 15 feet tall. The fuel racks sit on the pool liner, placing the top of the fuel storage rack at El 660'-9. Besides the scuppers (which are located at water level), the only penetrations into the pool are two 6" FPCU discharge lines terminating at Elevation 676'-0 (see Drawings M-2048 revision AI, M-3356-1 revision W, and M-3357-1 revision Q) which show 15'-3" of water above the fuel storage racks.

   Vacuum breakers were installed on two 6" FPCU lines (drawing R6-517 revision 6). The top of the vacuum breakers is at El 683'-6, which is the mean pool water elevation. Therefore, these two assets do not meet the criteria for visual verification.

   No penetrations exist less than 10 feet above the top of the fuel assemblies; therefore, no Rapid Drain-down assets were added to SWEL 2.

4.2.3 Conclusion to SWEL 1 and 2 Development Process

- Base List 1 containing 2055 assets is in Table B-1.
- SWEL 1 containing 101 assets is in Table B-2, which was created from the Base List 1.
- Base List 2 containing 59 assets is in Table B-3.
- The Rapid Drain-Down list does not have any assets. No assets met the criteria described in Screen 4 – Rapid Drain Down.
- SWEL 2 with two assets is in Table B-4, which was created from Base List 2.

After the original SWEL lists were completed replacements were required because some assets could not be adequately accessed for inspection. Ten (10) assets were replaced on the SWEL 1 list after it was concluded that assets or associated anchors were either not fully accessible or visible including one that was replaced twice. Five (5) of the assets were replaced because cabinet anchors are hidden under fire barrier mastic material molded into the bottom of cabinets. The mastic was not visible until cabinets were opened during the walkdown. Four (4) assets were replaced because not all of the anchors were visible. One asset was replaced because the panel is energized and not accessible during normal operation or the forthcoming refueling outage, RF16. The replaced assets are lined out on the SWEL lists (Table B-2 and B-4). Table B-5 is the justification to replace assets in SWEL 1 and 2.

During the Walkdowns it was determined that two (2) of the four (4) SWEL 2 assets did not meet the criteria for visual inspection because they are underwater and were lined out on the list. As discussed in Section 4.2.1 these assets have no effect on drain-down.

4.2.4 Inaccessible SWEL Assets

A follow up list of assets not accessible during the 180 day period of initial review is in Table E-1. These assets will be walked down no later than during the Fermi 2 Refuel Outage 16.

5 Seismic Walkdowns and Area Walk-Bys

5.1 Overview

A Walkdown Guideline, DTE file NJPR-12-0043 (Reference 13), was prepared to define and guide the Walkdown process. The guideline was developed from EPRI Technical Report 1025286 entitled "Seismic Walkdown Guidance" (Reference 1).

Seismic Walkdowns and Area Walk-Bys were conducted by 2-person teams of trained and qualified Seismic Walkdown Engineers listed in Table 3-1, in accordance with the EPRI Seismic Walkdown Guidance (Reference 1) during August of 2012. The Seismic Walkdowns and Area Walk-Bys are discussed in more detail in the following sections. The teams prepared Walkdown and Walk-By checklists taken from the EPRI Guidance checklists in NJPR-12-0043 (Reference 13). The Walkdown checklists are included in Appendix C and the Walk-By checklists are included in Appendix D of this report. Pictures are attached to the checklists for clarification and to visually depict significant issues as necessary.

5.2 Seismic Walkdowns

Work Orders (WOs) 34753020 and 34753040 were prepared to define and manage the Walkdowns. Work Order 34753020 was for Division 1 equipment, and Work Order 34753040 was for Division II equipment. The Work Orders required support by Operations and Electricians to access areas not normally accessible or visible. All walkdowns that required opening panels to view anchors or equipment required both Operations' and Electricians' support. All measurements and pictures, which required breaking the plane of an energized cabinet, were performed by qualified Electricians per Fermi Procedure MMA-18 with the SWE directly observing.

After the Walkdowns were complete, the NRC issued a Revised Position on September 18, 2012 (Reference 18 and Attachment 1) to address the question "Do cabinets with external anchors have to be opened during the Walkdowns?" Prior to the Revised Position, panels with external anchors were not opened to view the internal components. The Revised Position requires visual inspection of internal components, whether anchors are internal or external to the cabinet, if access does not require extensive disassembly. Walkdown checklists were reviewed to identify assets with exterior anchors and internal components, and assets that were accessible without significant disassembly were opened and interiors inspected. Assets requiring significant disassembly were not opened, and an explanation of difficulties in opening the assets was added to the checklists. No assets were deferred for this reason. The Revised Position did not affect the Walk-Bys.

Components included in Seismic Walkdowns are listed on SWEL 1 in Table B-2. Seismic Walkdown Checklists (SWC) were completed for the 90 accessible assets on

the SWEL and included in Appendix C of this report. Pictures are included with most SWCs to provide a visual record of the asset, and capture walkdown comments by the SWE Teams. Anchorage information that was obtained from the previously performed IPEEE walkdowns was provided to the SWEs and used during anchorage verification. Seismic Walkdowns were completed for 88 of 101 assets on SWEL 1 and 2 assets on SWEL 2. Nine supplemental SWCs were completed per the NRC Revised Position (Reference 18) discussed above. Thirteen (13) assets are inaccessible during plant operation and are not included. A summary of the SWCs (Table C-1) and a copy of the checklists are in Appendix C.

The 13 inaccessible assets in Table E-1 will be inspected during RF16, and this report will be updated within 90 days of the end of RF16. Note: changes in the RF16 schedule may affect the timing to complete walkdowns and reissuance of this report.

5.2.1 Anchorage Configuration Confirmation

As required by the EPRI Guidance Document (page 4-3) (Reference 1), 50% of assets were confirmed to be anchored consistent with plant documentation. Table C-1 of Appendix C indicates the extent of required anchorage verification using the following symbols.

Y: components requiring anchorage condition and configuration verification

N: components only requiring anchorage condition verification

See Table 5-1 below for an accounting of 50% anchorage configuration confirmations. See the individual SWC forms in Appendix C for plant documentation supporting this confirmation.

Table 5-1 Anchorage Configuration Confirmation

SWEL	No. of SWEL Assets (A)	Required to Confirm? (A)/2)	Assets Confirmed	Issues Identified
Total	103	52	65	4*

(*)CARDs 12-26837, 12-26590, 12-27504, and 12-28245 were generated to document inconsistencies between plant documentation and component anchorage.

CARD 12-26837 identified an error in drawing E-2998-05, Revision B, which will be corrected with a revision. Panel H21P628 has four legs and the Southwest leg is mounted per Section G-G of the drawing to an embedded baseplate. The Southeast Leg is mounted per Section D-D of the drawing. After reviewing Calculation DC-5165 Vol I, Revision 0 and Drawing E-2998-05, Revision B, the reviewer concluded that the existing drawing incorrectly shows both legs mounted per Section G-G. The drawing has been revised to correctly identify the as-built and as-designed configuration.

CARD 12-26590 was generated while reviewing design documents for heat exchanger P4400B001B. An error was identified on drawing C-4889, Revision 0. Detail K specifies

that the heat exchanger be anchored to the Reactor Building structure using A-197 Grade B7 bolt material. There is no ASME SA-197 bolt designation, and ASTM Standard A-197 does not have different grade designations. According to vendor calculation T N 990901 2, Revision 1, pages 16 & 22, the bolt material should be ASME SA-193, Grade B7. Subsequently, two Fermi SWEs examined the bolts in question and found they were marked with a "B7" grade symbol as required by the SA-193 standard. This was a drafting error which has been corrected with a drawing change.

CARD 12-27504 was generated after Seismic Walkdown Engineers noticed that Hilti Kwik Bolt 3 anchors at the bottom of panel H11P903 were 1/4" instead of 1/2" dia. as required by Fermi Electrical Specification 3071-128-ED, Revision AO, Standard ST-ED-S7-2. Hilti Kwik Bolt 3 anchors at the top of the panel are the correct size. The Walkdown Engineers then evaluated 1/4" diameter anchors and concluded that loads on the anchors during a safe shutdown earthquake would not exceed their design capacity. A calculation will be prepared to accept the plant configuration.

CARD 12-28245 was generated after a missing spring isolator bolt was discovered on the CCHVAC North Div. 1 A/C Chiller. The missing bolt was determined not to have an adverse impact on CCHVAC chiller design functions. A Work Order has been generated to install the missing bolt (See Table 5-2).

5.2.2 Issue Identification during Seismic Walkdowns

"Potentially Adverse Seismic Conditions" were identified by the SWEs during the Seismic Walkdowns; however, in all cases, it was concluded that the anomaly or issue would not prevent the equipment from performing its safety-related function during or after a seismic event. A list of CARDs initiated during the Seismic Walkdowns appears in Table 5-2, along with an initial evaluation as noted in the CARDs. The Table also categorizes the CARDs as either Corrective Maintenance or Engineering Document. Corrective Maintenance issues will be addressed by Work Orders to correct the condition. Engineering Document issues will be addressed by revising drawings and/or calculations.

No Licensing Basis Evaluations were required and all issues/anomalies are addressed in CARDs.

Several CARDs were created as a result of the Walkdowns, but they relate strictly to plant housekeeping/maintenance and have no seismic impact. They are not listed or discussed in this report.

CARDs generated as part of the Seismic Walkdowns are categorized as degraded anchorage, degraded support, spatial interaction, flex conduit spacing, and configuration control and are discussed further below.

Degraded Anchors
CARDs 12-27504, 12-27702, 12-28245, 12-28246 and 12-28393 identify concerns raised with anchors.

CARD 12-27504 is an anchorage issue discussed above in the anchorage Section 5.2.1.

CARD 12-27702 identified a concern with anchor washers and thread engagement on Instrument Racks H21P081, 083, 085 & 087. Of the 32 anchors inside the cabinets, 22 had less than one(1) full thread showing above the nut. Fermi Specification 3071-226 Revision K, section 3.3.5.4(a) requires one (1) full thread above the nut. Of the 32 washers on the anchors, 29 are beveled to match the profile on the mounting surface; however, three (3) washers are standard flat, round washers.

Seismic Walkdown Engineers reviewed the anchor bolt analysis, Calculation DC-1073, Revision A, and preliminarily determined the anchors have adequate design margin in the as-found condition. They also performed a preliminary analysis to determine how many threads needed to be engaged to develop full anchor capacity. The preliminary analysis, using worst case thread engagement, determined some anchors lacking full thread engagement would suffer a slight margin loss; however acceptable margin would still exist.

The principal concern with not using beveled washers is bending of the anchor bolt under design loading conditions until the nut bears against the sloping bottom flange of the structural channel. However, since the load on anchor bolts during installation torquing did not bend any of the 32 anchors, bending under worst case design loads is not a concern.

Preliminary analyses are included in the CARD summary of inspection results. Calculations will be revised to justify and document the as-found condition.

CARDs 12-28245, 12-28246 and 12-28393 identify concerns with anchor supports on the CCHVAC Division 1 chiller. The CARDs, respectively, identify a missing bolt on a spring isolator plate, rust on an isolator plate, and a concern with clearance provided for isolation. The missing bolt does not jeopardize the structural capability of the support, because the remaining supports are adequate. The rust is not significant. Clearance is available for the isolators to absorb mechanical vibrations.

Degraded Support
CARDs 12-27360, 12-27469, and 12-27475 identify missing fasteners.

CARD 12-27360 identified a grate inside a cabinet that was not secured per design. CARDs 12-27469 and 12-27475 identify missing fasteners on cover plates. Each CARD includes an evaluation of the structural adequacy of the as-found condition. None of the missing fasteners jeopardize the seismic adequacy of the cabinets. WOs have been prepared to install the proper fasteners.

CARDs 12-26852 and 12-26633 identify issues with supports on small, non-safety related items over the asset. CARD 12-26852 identifies a lighting conduit mounted on the ceiling with supports spaced further than the 8 foot maximum requirement in drawing E-2996-05A, Revision K, Specification Section 2.2.1. CARD 12-26633 identifies un-restrained heat tracing pull boxes on a safety related pump. In both cases, the item in question is non-safety related, and the item's mass is not significant enough to damage the protected asset. WOs have been created to correct the conditions (see Table 5-2).

Spatial Interaction
CARD 12-26921 identified a piece of Unistrut close to an EECW valve. The CARD determined that the Unistrut would not damage the valve. A WO was created to remove the Unistrut (see Table 5-2).

Flex Conduit Spacing
CARD 12-27131 identified a flex conduit that appeared to have little space for movement. The flex conduit attached to the top of the Division 1 2A1-2 130V Spare Battery Charger does not satisfy the nine (9) inches of length per one (1) inch of conduit diameter required by Conduit Specification 3071-128-EC, Revision AM, STD-EC-3-1, Section 3.5. The length of flex conduit is 14 inches, the specification requires 18 inches.

Flex conduits are installed on equipment to allow movement or facilitate fit up. In the case identified, the flex conduit is installed at the top of the battery charger to facilitate fit up. The battery charger is rigidly mounted to the floor near the wall. Since movement between this portion of the floor and the wall during a seismic event is not possible, the flex conduit is adequate, as installed. This condition does not prevent the battery charger from performing its design function. A TSR is to be issued to add a note to as-build the drawing documenting the deviation.

Configuration Control
CARDs 12-26590, 12-26837, 12-26977, 12-26990, 12-27114, and 12-27134 identify differences between plant configuration and drawings, but none of the differences raise seismic issues. CARDs 12-26837 and 12-26590 address anchor configuration issues discussed above in Section 5.2.1.

NRC Revised Position Results

No issues were found and no CARDs were initiated as a result of the nine (9) assets opened to satisfy the NRC's September 18, 2012 Revised Position (Reference 18 and Attachment 1). See Table C-1 for the 9 supplemental assets.

5.3 AREA WALK-BYS

In accordance with Reference 1, Area Walk-Bys were performed in each room or area (35 foot radius) containing one or more assets on the SWEL. Table C-1 of Appendix C identifies the Area Walk-By associated with each component. Table D-1 of Appendix D provides a description of the Area Walk-Bys and components located in each area. Completed Area Walk-By Checklists (AWCs) are included in Appendix D. Assets in close proximity were grouped resulting in 50 Area Walk-Bys.

In some cases, masonry block walls are in close proximity to safety related components reviewed during Walk-Bys. Masonry block walls were evaluated (Calculations DC-0841, Reference 26 and DC-4479, Reference 27) in response to issues identified in NRC IE Bulletin 80-11 (Reference 25). All masonry walls whose failure could cause Seismic II over I concerns were evaluated to demonstrate their structural adequacy, and where necessary, reinforced with steel framing. Masonry block walls whose failure would not cause Seismic II over I issues were left as is. Masonry block walls were identified in the Area Walk-Bys and Seismic II over I status noted. Therefore, proximity of block walls to components identified during these Area Walk-Bys was not considered a "potential adverse seismic condition".

5.3.1 Issue Identification during Area Walk-Bys

"Potentially Adverse Seismic Conditions" were identified by SWEs during the Area Walk-Bys; however, in all cases it was concluded that the anomaly or issue would not prevent equipment from performing its safety-related function during or after a seismic event. A list of CARDs initiated during the Area Walk-Bys is in Table 5-3, including an initial evaluation of conditions reported in CARDs. Table 5-3 categorizes CARDs as Corrective Maintenance or Engineering Document. Corrective Maintenance issues will be addressed by Work Orders to correct the condition. Engineering Document issues will be addressed by revising drawings or calculations. Several CARDs created as a result of the Walkdowns relate strictly to plant housekeeping/maintenance and have no seismic impact; therefore, they are not discussed in this text. The CARDs discussed below are categorized as degraded support, spatial interaction, and configuration control.

Degraded Support
CARDs 12-26588, 12-26630, and 12-26957 identified issues with supports on small, non-safety related items positioned over or near a SWEL asset.

CARD 12-26588 identifies a damaged lighting support over a Motor Control Center. Because the light is small and it could fall only a few inches, the MCC would not be damaged if the light were to fall. A WO will correct this issue. CARD 12-26630 identified a GAI-TRONICS speaker mounted over a safety related panel, which does not appear to be seismically mounted. The CARD includes an analysis which concludes the mounting is adequate. A calculation will be created to close the issue. CARD 12-26957 identified a missing nut on a fire hose reel. The CARD includes an analysis which concludes allowable stresses are acceptable for seismic II over I. A WO will correct the issue. The mass of all these items is too small to damage the protected asset. WOs have been created to correct the conditions. See Table 5-3 for WO numbers.

Spatial Interaction
CARDs 12-26586, 12-26985, 12-26861, 12-27959, and 12-27093 identify spatial interaction concerns.

CARD 12-26586 identifies contact between a handrail and a Core Spray Pipe. The 3" pipe is much heavier and stronger than the handrail; therefore, the handrail is not a hazard to the pipe. The CARD concludes that the handrail is not necessary for personal protection. A WO was created to remove the handrail. CARD 12-26985 identified light fixtures above switchgear in contact with a cable tray. The CARD concludes that the weight of the light fixture could not damage the switchgear. A WO was created to move the light. CARD 12-26861 identified a light fixture contacting an 8 inch diesel service water piping. The CARD concludes that the weight of the light fixture could not damage the pipe. A WO was generated to move the light fixture away from the pipe. CARD 12-27959 identified a 4 inch clearance between an HVAC duct and switchgear panel, R1400S001C. Since the panel is more rigid and heavier than the duct, its natural frequency will be different than that of the duct. As such, during a safe shut-down earthquake (SSE), the duct could sway toward the panel at the same time the panel is swaying toward the duct. A preliminary seismic evaluation determined that the current 4" of clearance between the duct and panel is sufficient to prevent any adverse seismic interaction. CARD 12-27093 identified a light fixture resting against a stiffener on an HVAC duct. The chain support was wrapped around the HVAC duct stiffener. The

chain was unwrapped and found to be the proper length. No further work was needed. See Table 5-3 for WO numbers.

Configuration Control
CARD 12-27556 identified a difference between plant configuration and drawings, but the difference is not a seismic issue.

Table 5-2: Issues Identified During Seismic Walkdowns

					CARD Solution	Corrective Maintenance		Engineering Corrective Actions	
Walkdown Checklist Reference	CARD	CARD Description/Title	Seismic Issue?	Initial Evaluation	Corrective Maintenance (M) Or Engineering Doc. (E)	Work Order Number to Fix	WO Schedule Start	Follow-up Corrective Action	Completion Date
C4103C001A & RB4-1	12-26633	Fukushima Seismic Walkdown NTTF 2.3 - Loose Heat Trace Pull-Boxes on Pump C4103C001A	Yes	Pull Boxes are non-seismic. Their weight is insignificant; therefore, the pullboxes will not damage the Standby Liquid Control Pump, C4103C001A.	E/M	35396455	TBD	CARD to generate WO Remove Pull Boxes and document in TSR	2/1/2013
H11P903	12-27504	Undersized Anchors in Electrical Panel	Yes	Walkdown Engineers reviewed the analysis (Calculation DC-5634, pp. E.6 & E.9) supporting Specification 3071-128-ED Std. ST-ED-S7-2 to determine if it evaluated use of Kwik Bolt 3 anchors smaller than 1/2" dia. The analysis did not evaluate anything as small as 1/2". The Walkdown Engineers evaluated 1/4" dia. anchors and concluded that loads on the anchors during a design basis earthquake would not exceed their design capacity.	E	No		Provide Calculation	11/30/2012
H21P081, H21P083, H21P085, H21P087	12-27702	Inadequate Kwik Bolt Anchor Washers & Thread Engagement. 22 of 32 anchors had less than one thread showing. Three anchors have flat washers, the rest have beveled washers.	Yes	Seismic Walkdown Engineers reviewed the anchor bolt analysis (Calculation DC-1073) for Instrument Racks H21P081, 083, 085 & 087 and determined the anchors have adequate design margin. They also performed a preliminary analysis to determine the number of threads needed to be engaged to develop full anchor capacity. The preliminary analysis, using worst case thread engagement, determined some anchors lacking full thread engagement would suffer a slight margin loss, however acceptable margin would still exist. Flat washers could cause bending of the anchor bolt under design loading conditions until the nut bears against the sloping bottom flange of the structural channel. However, since the load on anchor bolts during installation torquing did not bend any of the 32 anchors, bending under worst case design loads is not a concern. Based on the preliminary engineering evaluation, the beveled washer concern and the anchor thread concern do not impact functionality of the Instrument racks.	E	No		Provide Calculation	11/30/2012
H21P448	12-26852	Lighting Conduit not Correctly Supported per Drawing	Yes	This overspan condition exists on the second floor. The 8 ft. standard span is based on seismic qualification using the 5th floor response spectra, which is much higher than the second floor response spectra. Therefore, by engineering judgment, this over-span can be easily qualified, and it will be shown that the conduit will perform its intended function to support the cables during a seismic event.	M	35274767	12/13/2012		

Table 5-2: Issues Identified During Seismic Walkdowns

					CARD Solution	Corrective Maintenance		Engineering Corrective Actions	
Walkdown Checklist Reference	CARD	CARD Description/Title	Seismic Issue?	Initial Evaluation	Corrective Maintenance (M) Or Engineering Doc. (E)	Work Order Number to Fix	WO Schedule Start	Follow-up Corrective Action	Completion Date
P44F402A	12-26921	Unistrut found to be in possible contact with EECW Valve	Yes	As stated in the CARD this Unistrut is not shown on the isometric for the valve. This Unistrut is most likely abandoned in place and fits the description of a hanger normally used for tubing supports. If it is indeed touching the valve, it will assist in supporting the valve in the vertical direction. Therefore, this condition is not detrimental to the valve design or performance.	M	35326711	12/14/2012		
R1600S019A	12-27475	Missing Bolt on Panel R1600S019A	Yes	The missing bolt is not an immediate concern. Based on the panel cover weight, remaining three bolts' design capacity, the bolts in the panel's other three corners would be fully capable of supporting the panel during and after a design basis seismic event.	M	35297835	12/3/2012		
R30P343D	12-27360	Missing hardware to secure grate in panel R30P343D	Yes	The panel is a Seismic Category I, welded and high strength bolted steel frame structure per Spec. 3071-296. An evaluation in the CARD applied a loading using the worst case of the highest Zero Period Acceleration (ZPA). Considering a coefficient of static friction, the grate will not require screws to resist sliding during a seismic event. In addition to the sliding resistance, the walls of the instrument panel hold the grate in place. Moving the grate would require a force in exactly the East-West direction.	M	35290634	1/28/2013		
T4100B009	12-28245	Plate for Div. 1 CCHVAC Chiller Spring Isolator Missing Bolt	Yes	This plate is for the SE spring isolator of the four isolators under the compressor motor for the Div. 1 CCHVAC cooler. There are 3 other bolts restraining the movement of this plate, and the absence of the bolt will not allow for any amount of significant movement of the plate that would make the bolt attached to the spring lose contact with the plate. See CARD 12-28393 below.	M	35458784	3/19/2013		
T4100B009	12-28393	CCHVAC Chiller Isolator Clearance not Specified	Yes	The chiller assembly must be plumb in the horizontal and vertical plane to avoid mechanical vibrations and to prevent unanalyzed loads on rotating parts. The variable clearance under the isolators has no adverse impact on the chiller since CCHVAC Div-1 chiller is running free of vibrations or any mechanical noises. Therefore, based on inspection of Div-1 and 2 chillers and review of design documents, it is concluded that missing isolator tolerance, a missing bolt at the isolator assembly and minor surface rust have no adverse impact for this equipment to meet its design functions as described in UFSAR Chapter 6 and Chapter 9. The missing data is a configuration control deficiency.	E	No		Investigate and re-establish missing parameters.	TBD

Table 5-2: Issues Identified During Seismic Walkdowns

					CARD Solution	Corrective Maintenance		Engineering Corrective Actions	
Walkdown Checklist Reference	CARD	CARD Description/Title	Seismic Issue?	Initial Evaluation	Corrective Maintenance (M) Or Engineering Doc. (E)	Work Order Number to Fix	WO Schedule Start	Follow-up Corrective Action	Completion Date
X41N056D	12-27469	Missing/Damaged Screws in Temperature Sensors	Yes	A preliminary evaluation by two Seismic Walkdown Engineers concluded that the sensor cover in the EDG 14 Switchgear Room could not fall off during a seismic event. Since covers are small and light, one screw is enough to hold them in place. If the sensor cover in the EDG 13 Switchgear Room fell off, due to its configuration, it would fall away from the sensor without touching its contents. Since the cover's sole purpose is to keep dust from collecting inside the sensor and plant personnel from brushing against its internals, during a seismic event and the first few days thereafter, a cover is not required for the function or seismic capability of the sensor.	M	35297711 and 35297790	12/24/2012 (Both)		
T4100B009	12-28246	Rust Found On Div. 1 and Div. 2 CCHVAC Chiller Isolators	No	Minor rust on the support does not affect the chiller operability. See CARD 12-28393 above.	M	35458784 and 35459321	3/19/2013 and 4/02/2013		
R3200S020C	12-27131	Flex Conduit Appears to be too Rigid	No	Flex conduits are installed for equipment to allow movement or fit up. In the case identified in this CARD, the flex conduit is installed at the top of the battery charger to allow for fit up. The battery charger is rigidly mounted to the floor near the wall. Therefore, there is no movement between this portion of the floor and the wall during a seismic event. This portion of the floor and the wall move together during a seismic event. Therefore, the flex conduit is adequate, as installed.	E	No		Document adequate movement in TSR	11/30/2012
H21P628	12-26837	Drafting Error on Drawing E-2998-0S	No	N/A	E	No		CLOSED - Drawing Revised	10/11/2012
B21N116B (RF16 Asset)	12-27134	Discrepancy between Label and CECO Description	No	N/A	E	No		CLOSED - CECO corrected	10/12/2012
R3001C006 and RHR1-7	12-26977	Braces on EDGSW Pump/Motor R3001C005 and C006 are not identified on vendor drawings	No	N/A	E	No		CLOSED - No change needed	9/17/2012
H21P296A	12-26990	DCN not fully incorporated onto Panel Mounting Drawing	No	N/A	E	No		CLOSED - Drawing Revised	10/2/2012
P44008001B	12-26590	Error was identified on Drawing C-4889	No	N/A	E	No		CLOSED - Drawing Revised	9/6/2012
R3000S006 (RF16 Asset)	12-27114	Drawing M-N-2028 shows incorrect PIS Number	No	N/A	E	No		CLOSED - Drawing Revised	9/25/2012
18 TOTAL CARDs									

Table 5-3: Issues Identified During Area Walk-Bys

					CARD Solution	Corrective Maintenance		Engineering Corrective Actions	
Walkdown Checklist Reference	CARD	CARD Description/Title	Seismic Issue?	Initial Evaluation	Corrective Maintenance (M) Or Engineering Doc. (E)	Work Order Number to Fix	WO Schedule Start	Follow-up Corrective Action	Completion Date
AB2-1	12-26630	Fukushima Seismic Walkdown NTTF 2.3 - GAI-Tronic above Panel H11P901 does not appear to be seismically supported	Yes	The mounting for the GAI-TRONICS speaker identified in this CARD is shown on vendor drawing DECO File No A2-535. The speaker is similar in mass and mounting to detail 14 on drawing E-2996-05A. This equipment is classified as seismic II/I. The speaker was found to be installed per drawing SS 1826. CARD 12-26630 includes an evaluation which concludes that the speaker is adequately mounted for seismic II/I. CARD 12-26630 will drive a formal calculation to document that the mounting and conduit that the speaker are seismically qualified as seismic II/I.	E	No		Issue Design Calc. and TSR	12/21/2012
AB2-2	12-27959	Seismic Clearance Between Panel & HVAC Duct	Yes	Since the panel is more rigid and heavier than the duct, its natural frequency will be different than that of the duct. As such, during a safe shut-down earthquake (SSE), the duct could sway toward the panel at the same time the panel is swaying toward the duct. A preliminary seismic evaluation determined that the current clearance between the duct and panel should be sufficient to prevent any adverse seismic interaction.	E	No		Complete acceptance of condition and As-Build	11/30/2012
RB1-1	12-26588	Broken Support Cable on Structural Member above MCC 72F-5A	Yes	Based on a preliminary evaluation by two Seismic Walkdown Engineers, this condition would not result in damage to the MCC during a seismic event. This is because the bank of lighting is supported at midspan by the structural member and at its east and west ends by other means. Therefore, it is uncertain whether it would simply sag at midspan, if the second cable failed, or would actually make contact with the top of the MCC. If contact occurred, it would not damage the MCC because the structural member would sag, and then fall at short distance and strike the cabinet at a relatively low velocity. Impact forces would be negligible.	M	35131737	11/28/2012		
RB1-5	12-26586	Core Spray Line in Contact with Handrail	Yes	Based on a preliminary evaluation by two Seismic Walkdown Engineers, this condition would not result in damage to the pipe during a seismic event. This is because the pipe in the Core Spray Line is larger than the pipe in the handrail and because the distance between the two pipes is not enough to permit the development of any significant velocity and impact forces during a hypothetical earthquake.	E/M	35359704	7/6/2013	CLOSED - WO Generated and config. TSR Issued	

Table 5-3: Issues Identified During Area Walk-Bys

					CARD Solution	Corrective Maintenance		Engineering Corrective Actions	
Walkdown Checklist Reference	CARD	CARD Description/Title	Seismic Issue?	Initial Evaluation	Corrective Maintenance (M) Or Engineering Doc. (E)	Work Order Number to Fix	WO Schedule Start	Follow-up Corrective Action	Completion Date
RBSB-2	12-26957	Hose Reel Support Column Missing Anchor Nut	Yes	This fire hose support is a standard design per calculation DC-2477. In this calculation, the support is designed for the enveloping earthquake accelerations at the reactor building 5th floor. The deficient support is located in the reactor building sub-basement. Preliminary analysis determined the support mounting will perform its seismic II/I function of supporting the fire hose, without impacting adjacent QA1 equipment.	M	35214809	12/27/2012		
RHR1-9	12-26861	Light Fixture is against Diesel Service Water Supply Pipe	Yes	The 8 inch pipe a very sturdy. It has two supports in the vicinity of the rattle space violation (drawing M-N-2177-2). The glass from the light fixture will break and it cannot damage the pipe, as a result of a seismic event. Therefore, the service water pipe will not be impacted by the lighting fixture.	M	35198392	11/26/2012		
RHR2-2	12-26985	Light Fixtures above Switchgear in Contact with Cable Tray	Yes	A preliminary evaluation by two Seismic Walkdown Engineers concluded that the current condition of the light fixtures does not pose a threat to the switchgear cabinet or cable tray. If the chain broke and the fixture fell, it would not impact the cabinet or cable tray. Because the light fixture is much lighter than the cable tray and is resting against its side, during a seismic event it would not impact the tray with enough force to cause any damage.	M	35214980	12/3/2012		
AB2-2	12-27093	Repair Light Fixture in Div. I Switchgear Room	No	Per engineering judgment, because the weight of the light fixture is low and is resting against the stiffener of the HVAC duct, it will not damage the seismically supported ductwork during a seismic event. The chain support was wrapped around the HVAC duct stiffener. The chain was unwrapped and found to be the proper length. No WO or further work was needed.	M	NA	Closed		
AB5-1	12-27556	Floor Drain does not match drawing M-2221	No	N/A	E	No		CLOSED - Drawing Revised	10/24/2012
9 TOTAL CARDs									

6 Licensing Basis Evaluations

As noted previously in Sections 5.1 and 5.2 and in each individual CARD, review of all Potentially Adverse Seismic Conditions identified during the Seismic Walkdowns and Area Walk-Bys concluded that, in all cases, the anomaly or issue would not prevent the equipment from performing its safety-related function during and after the postulated seismic events. All anomalies/issues are addressed by the 27 CARDs discussed in Sections 5.1 and 5.2 and listed in Tables 5-2 and 5-3 and the resulting corrective actions are tracked by the Fermi CARD process. As required by the CARD program, all CARDs were initially reviewed for plant impact, reportability and operability, as well as impact on the Licensing Basis. Action items were generated to either prepare calculations and drawing changes or to create a Work Order to perform maintenance. CARDs generated to prepare Work Orders will be closed when the Work Order is scheduled. CARD closure is not tied to issuance of this report.

Since Licensing Basis Evaluations, as discussed in the EPRI Guidance Document, were intended as a tool to review issues prior to entry into the Corrective Action Program, independent Licensing Basis Evaluations were not needed as the evaluations were performed under the CARD process. No issues were found that would prevent the equipment from performing according its Licensing Basis.

7

IPEEE Vulnerabilities Resolution Report

In response to the USNRC's Generic Letter 88-20, "Individual Plant Examination of External Events, (IPEEE) for Severe Accident Vulnerabilities, 10CFR50.54 (f)", Fermi 2 performed an individual plant examination of external events for severe accident vulnerabilities.

The methodology that Fermi 2 selected for completing the seismic IPEEE was the EPRI developed Seismic Margin Assessment (SMA) method outlined in EPRI NP-6041-SL (Reference 6) and described in Fermi report NRC-96-0037 Section 1.3 (Reference 4). Seismic design margins were based on a conservatively severe earthquake referred to as the Review Level Earthquake (RLE) with a median ground spectrum anchored at 0.3g maximum ground acceleration.

Assets selected for the IPEEE seismic evaluations were selected from systems that support the following safety functions:

- Reactor reactivity control
- Reactor coolant pressure control
- Reactor coolant inventory control
- Decay heat removal

Also included were assets from systems that support containment integrity and isolation. All twenty one classes of equipment, plus additional classes in "other" categories were selected for evaluations, and included in the Safe Shutdown Equipment List (SSEL).

Outliers, identified during IPEEE seismic walkdowns were recorded in Screening and Evaluation Worksheets (SEWS). Individual descriptions of the identified outliers are provided in Section 3.1.5 of the Fermi 2 IPEEE report (Reference 4). In addition, insights gained from the IPEEE, which were not directly associated with the walkdowns, resulted in recommendations for maintenance and operator training. Outlier resolutions and modifications were tracked by Deviation Event Reports. DERs were the predecessor to the current Condition Assessment Resolution Document (CARD) system.

DERs tracked outliers listed in Table 7-1 were resolved in three groups:

1. Maintenance items resolved by Work Requests (WRs). See Table 7-2.
2. Items resolved by document changes (i.e. configuration control TSRs). See Table 7-3
3. Items requiring modification using Engineering Design Packages (EDPs). See Table 7-3.

IPEEE seismic evaluation results were summarized in a comprehensive report (NRC-96-0037, Reference 4), which was reviewed by Senior Consultants, Drs. John Stevenson and Robert Kennedy, and issued in March of 1996.

Summary Table 7-1 (From Table 3-6 of Reference 4) lists the number of IPEEE Safe Shutdown Equipment List assets evaluated in each equipment category and the number of "outliers" for each category to demonstrate the breadth and distribution of the study.

Table 7-1 SSEL Categories

Category #	Description	SSEL Assets	Outliers
1	Motor control centers	15	6
2	Low voltage switchgear	8	4
3	Medium voltage switchgear	8	3
4	Transformers and regulators	12	3
5	Horizontal pumps	21	3
6	Vertical pumps	16	1
7	Fluid-operated valves	281	14
8	Motor-operated valves	89	12
9	Fans	26	0
10	Air handlers	16	3
11	Chillers	2	1
12	Air compressors	6	0
13	Motor generators	0	0
14	Distribution panels	20	3
15	Batteries and racks	2	1
16	Battery chargers	6	2
17	Engine generators	4	0
18	Automatic transfer switches	0	0
19	Instrument racks	50	8
20	Local instruments/temperature sensors	38	1
21	Control and instrumentation cabinets	83	18
22A	Other valves	1119	2
22B	Tanks	413	3
22C	Heat exchangers	20	4
22D	Steam-driven turbines	2	0

Maintenance Work Requests, corresponding SEWS, description of outlier, and the closure date/status of each resolution appears in the following summary Table 7-2. (From Table 3-7 of Reference 4).

Table 7-2 List of Maintenance Work Requests

WR No	Date Initiated	Description	Status/ schedule	SEWS No
000Z947541	11/3/94	Mounting bolt missing on HCU	Complete 12/9/94	RB1-12
000Z947542	11/3/94	HCU N2 tank support rod bent	Complete 12/20/94	RB1-12
000Z947543	11/3/94	Missing/loose hardware and straps on HCUs	Complete 12/9/94	RB1-12
000Z947544	11/3/94	Missing safety cables for lights- RB1	Complete 11/19/94	RB1-15/18
000Z948669	12/6/94	Missing hardware- H21P021	Complete 12/9/94	RBB-02
000Z951276	1/27/95	Missing hardware- H21P017	Complete 6/8/95	RCIC-15
000Z951277	1/27/95	T4100B018 anchor nut may be missing	Complete 8/12/96 (Per DER 96-0644)	RBSB-02
000Z951289	2/24/95	Missing bolts- HPCI main oil pump	Complete 3/29/95	HPCI-23
000Z951305	4/3/95	Missing bolts- calvert bus box support	Complete 5/18/95	SGR1-05
000Z951311	4/27/95	Missing screws on H11P614 insert	Complete 9/12/96	RR-18
000Z951312	4/27/95	Missing overhead light safety cables- AB3	Complete 3/21/96	BAT-06
000Z951313	4/27/95	Missing emergency battery hooks	Complete 8/19/96	RB2-22
000Z951314	4/27/95	Missing bolts between MCC R3200S016 sections	Complete 7/24/95	BAT-03
000Z951315	4/27/95	Switchgear door bolts not engaged/ stripped	Canceled, split into 5 000Z954328 000Z954329 000Z954330 000Z954331 000Z954332	SGR2-03
000Z951324	5/15/95	GEMAC modules not inserted in H11P612	Complete 4/5/96	RR-03
000Z951325	5/16/95	Missing overhead lights safety cables- AB2	Complete 4/13/96	SGR1-01
000Z952656	5/17/95	GEMAC modules not inserted in H11P613	Complete 4/9/96	RR-03
000Z953607	5/31/95	Mounting screws for Dwyer switch in H21P296B	Complete 7/25/95	AB5-02
000Z953608	5/31/95	Safety cables on overhead lights- AB5	Complete 3/21/96	AB5-02
000Z953614	6/22/95	Mounting screw missing on R30NA09D switch	Complete 2/27/96	RHR1-08
000Z953615	6/22/95	Actuator lid loose on R3000F023D, EDG 14	Complete 2/29/96	RHR1-10
000Z953616	6/22/95	Emergency lighting battery hook bolts R3600S199	Complete 8/19/96 (Worked With 000Z951313)	RHR1-08
000Z953617	6/27/95	EDG gauge panel mounting nut torque	Canceled, split into 4 000Z953622 000Z953623 000Z953624 000Z953625	RHR1-02
000Z953621	7/5/95	MCC R1600S003D rattlespace w/ water shield	Complete 9/26/95	RB2-22
000Z953622	7/5/95	Torque jam nuts on gauge panel R30P310	Complete 8/15/95	RHR1-02
000Z953623	7/5/95	Torque jam nuts on gauge panel R30P320	Complete 8/21/95	RHR1-02
000Z953624	7/5/95	Torque jam nuts on gauge panel R30P330	Complete 8/29/95	RHR1-02
000Z953625	7/5/95	Torque jam nuts on gauge panel R30P340	Complete 9/6/95	RHR1-02
000Z954328	7/11/95	Switchgear door bolts not engaged R1400S001B	Complete 7/27/95	SGR2-03
000Z954329	7/11/95	Switchgear door bolts not engaged R1400S001B	Complete 7/27/95	SGR2-03

Table 7-2 List of Maintenance Work Requests

WR No	Date Initiated	Description	Status/ schedule	SEWS No
000Z954330	7/11/95	Switchgear door bolts not engaged R1400S001C	Complete 7/27/95	SGR2-03
000Z954331	7/11/95	Switchgear door bolts not engaged R1400S001E	Complete 7/27/95	SGR2-03
000Z954332	7/11/95	Switchgear door bolts not engaged R1400S021B	Complete 7/27/95	SGR2-03
000Z952645	8/2/95	RHR switchgear bolts not engaged R1400S002A	Complete 8/8/95	RHR2-06
000Z952646	8/2/95	RHR switchgear bolts not engaged R1400S002B	Complete 8/8/95	RHR2-06
000Z952647	8/2/95	RHR switchgear bolts not engaged R1400S002C	Complete 8/8/95	RHR2-06
000Z952648	8/2/95	RHR switchgear bolts not engaged R1400S002D	Complete 8/8/95	RHR2-06
000Z952649	8/2/95	RHR switchgear bolts not engaged R1400S038	Complete 8/8/95	RHR2-04
000Z952650	8/2/95	RHR switchgear bolts not engaged R1400S039	Complete 8/8/95	RHR2-04
000Z955153	8/2/95	Relay mounting screws missing - H21P350	Complete 10/3/95	RHR2-07
000Z955154	8/2/95	Relay mounting screws missing - H21P351	Complete 2/12/96	RHR2-07
000Z955432	11/28/95	Anchor nut missing for Distrib. Pnl. H21P561	Complete 8/5/96	RBB-06
000Z957665	12/11/95	Missing hardware for sig. conditioners, H11P612	Complete 8/19/96	RR-03
000Z957666	12/11/95	Recorder hardware deficiencies in H11P601	Complete 2/15/96	CR-02
000Z957668	12/18/95	Trolleys on top of 480V switchgears R1400S022	Complete 2/20/96	SGR1-06
000Z957669	12/18/95	Trolleys on top of 480V switchgears R1400S023	Complete 2/20/96	SGR1-06
000Z957670	12/18/95	Trolleys on top of 480V switchgears R1400S020	Complete 2/26/96	SGR2-04
000Z957671	12/18/95	Trolleys on top of 480V switchgears R1400S021	Complete 2/26/96	SGR2-04
000Z957672	12/18/95	Trolleys on top of 480V switchgears R1400S036	Complete 2/19/96	RHR2-04
000Z957673	12/18/95	Trolleys on top of 480V switchgears R1400S037	Complete 2/19/96	RHR2-04
000Z957674	12/18/95	Trolleys on top of 480V switchgears R1400S038	Complete 2/26/96	RHR2-04
000Z957675	12/18/95	Trolleys on top of 480V switchgears R1400S039	Complete 2/26/96	RHR2-04
000Z957680	12/20/95	Mounting screw missing for PCV T41F114B	Complete 8/12/96	AB5-02
000Z957681	12/20/95	Mntg. hardware deficiencies for T41N132B & 134B	Complete 5/31/96	AB5-02
000Z957682	12/22/95	Tighten transformer mounting bolt - T41N456B (this was done under 000Z9619651)	Complete 5/30/96	AB5-25

Configuration changes enhancing the seismic ruggedness of components were performed using the engineered change process, Engineering Design Packages (EDPs), driven by Technical Services Requests (TSRs). Design changes and implementation completion dates are summarized in Table 7-3.

Table 7-3 Design Changes

DSN	Status at Completion	Date
TSR 28195	For-Information-Only	06/25/2001
	EDP 28195 is As Built in ARMs	07/22/2002
EDP 27108	As-Built (Closed)	11/15/1995
TSR 27566	For Information Only	10/09/1995
	EDP 27566 is As Built in ARMs	12/11/1997
TSR 27264	As-Built (Closed) – Drawing Change	07/01/1996

Due to the relatively large number of outliers such as loose, missing, or damaged hardware pertaining to plant maintenance practices, Training Work Request 96-0161 was issued to increase maintenance awareness of the importance of attention to detail in installation and restoration of mounting hardware during maintenance activities. This training, using lesson plans LP-EM-242-9602 for Electrical, LP-MM-223-3962 for Mechanical, and LP-IC-336-9602 for I&C, was completed during the second quarter of 1996.

Several assets in this report, other than the outlier population, had conditions such as missing bolts and lighting fixture deficiencies identified during the Walkdowns and Walk-Bys. In light of the time period since the original IPEEE training activities and in view of the recent findings from this walkdown program, a PILAR (Performance Improvement and Learning Action Request) was initiated by CARD 12-28821 to provide recommendations for any necessary further improvements.

As a result of the IPEEE report, Operations were trained to recognize a seismic accident scenario, where the plant is required to achieve and maintain safe shutdown for 72 hours following a seismic event using the EDG as the only source of power. To preclude confusion in the Control Room, training included how to respond to multiple alarms resulting from chatter of "bad-actor" relays during an earthquake. This training was accomplished in 1997 as follows:

During Cycle 1 1997 Scenario SS-OP-904-0144, entitled "Seismic Event With a Loss of all Offsite Power/Failure of Blackstart CTG with EDG 11 Out Of Service/ a Medium Break LOCA/ and the Receipt of Multiple Bad Actor Annunciators" was performed by all Licensed Operator Shift and Admin teams as the cycle assessment scenario. The scenario was developed at the request of the PSA group to determine the response of operations personnel to invalid annunciators during a complex seismic event scenario.

As part of the current NTTF 2.3 Seismic Walkdown effort, each of the above documents were retrieved and reviewed confirming that the actions were implemented and documents closed.

From the outlier population identified by IPEEE, a sample of twenty assets was selected, and added to the NTTF 2.3 Seismic Walkdown effort SWEL (discussed previously in Section 4.2.1 of this report). Available Screening and Evaluation Worksheets (SEWS) generated during the IPEEE Walkdowns were included in the NTTF 2.3 Walkdown packages to allow SWEs to confirm the completion of the outlier corrective actions. The selected twenty assets are listed below

C1103D128	H11P628	H11P915	*R1400S023
E4101C001C	H11P857	H21P296A	R1400S039B
E41K805	H11P870	*R1400S001C	R3000F023D
H11P612	H11P898A	*R1400S001E	R30P320
H11P613	H11P898B	*R1400S002C	T49P400A

*These four assets are not accessible during the initial NTTF 2.3 Walkdown effort and will be walked down during RF16.

No potential adverse seismic conditions were identified on these assets

8 Peer Review

8.1 Seismic Walkdown Equipment List (SWEL)

The Peer Review team attended meetings during the development of the SWEL and provided feedback to the development team. During these meetings, the SWEL was checked against the Peer Review Checklist from Appendix F of EPRI Technical Report 1025286 to verify that all requirements had been addressed. Operations, System Engineering, and Maintenance Organizations were consulted and requested to provide input to the SWEL selections.

8.1.1 IPEEE Vulnerabilities and Major New and Replacement Equipment

The SWEL development team provided selections to the Peer Review Team for its review. Using this process, a large pool of equipment was narrowed down following the guidelines in the EPRI Guidance Document. The Fermi Central Component Data Base (CECO) was used to find all major modifications since the 1995 IPEEE evaluation. Engineering Design Packages (EDPs) and Equivalent Replacement Evaluations (EREs) were examined to find major equipment changes that involved SSCs eligible for SWEL selection. Vulnerabilities identified during the IPEEE evaluation were also screened for SWEL selection as shown in Tables B-2 and B-4.

8.1.2 Five Safety Functions

The Peer Reviewers interviewed personnel on how equipment representing the five (5) safety functions described in the EPRI Guidance Document were classified. The SWEL Development Team used its selection matrix to demonstrate how the selected SSCs represent multiple safety functions and how all of the five (5) safety functions were adequately represented as shown in Tables B-2 and B-4..

8.1.3 Variety of Equipment

The SWEL List represented all classes of equipment in Appendix B of the EPRI Guidance Document (Reference 1) except for Class 13, motor generators. Motor generators at Fermi are classified non-Q, and are outside of the scope of SWEL requirements.

8.1.4 Variety of Environments

One of the Review Team's main areas of interest was capturing a variety of environments in the SWEL and dealing with items that can only be accessed during a Refueling Outage. It was decided that it was necessary to include items in the Drywell, as it is a uniquely harsh environment that could not exist elsewhere in the plant.

8.1.5 Risk Significance

Another concern brought up by the Peer Review Team was how to consider risk significance during the selection of SSCs for the SWEL. The SWEL Development Team successfully used

MWC13, Outage Nuclear Safety, and the Maintenance Rule Conduct Manual to identify risk significant systems.

8.1.6 Changes Made to SWEL During Walkdowns

During the Seismic Walkdowns it was discovered that several cabinets had a fire protection coating that did not allow visual confirmation of anchorage configurations. As a result, new cabinets were chosen and Operations was consulted to verify the cabinets would be safe to inspect during normal plant operation. The finalized SWEL was found to conform to the requirements of EPRI Technical Report 1025286, Section 3, "Selection of SSC," and the Peer Review Checklist.

8.1.7 SWEL 2

The list of potential SSCs for SWEL 2 selection was very small. Since the spent fuel pool has no penetrations less than 10 feet above the top of fuel assemblies, there were no rapid drain-down items to select. One item, the gate between the spent fuel pool and reactor cavity used during refueling outages to transfer fuel from the reactor to the spent fuel pool, was initially selected, but was taken off the SWEL 2 list because it would not be possible to inspect.

8.2 Review of Sample of Seismic Walkdown Checklist (SWC) and Area Walk-By Checklist (AWC)

8.2.1 Review of Checklists

The Peer Review Team reviewed and provided feedback on 28% (25 out of 90) of SWCs and the associated 14 AWCs. There are a total of 50 AWCs so that 28% (39 of 140) of the total number of SWCs and AWCs were reviewed. Clarification statements were added to checklists as needed. Justification of engineering judgment was added at the request of Peer Reviewers. For example, SWEs inserted references to design documents in SWCs to justify conclusions. Discussions with SWEs validated that EPRI guidance was followed and proper documentation and justifications were provided.

8.2.2 Review of Packages

When reviewing SWCs and AWCs, the Peer Review Team inspected the entire documentation package for the SWEL item, including anchorage drawings, CECO printouts showing documents relevant to the SWEL item, and pictures. The investigation of the packages found that there was an adequate amount of documentation to verify anchorage conditions.

8.2.3 Interview of SWEs

Periodically, the Peer Review Team accompanied SWEs in order to observe pre-job briefs and walkdowns and to ensure SWEs understood and properly executed the EPRI guidance. Walkdowns observed by Peer Reviewers included a variety of equipment types (especially equipment that the Peer Review Team had feedback on after reviewing SWCs and AWCs) and different SWE teams. The Peer Reviewers interviewed SWEs after they had filled out checklists to ensure that they identified all potentially adverse conditions and followed EPRI guidelines, and found their responses to be adequate.

8.2.4 Issues Identified During Walkdowns

CARDs 12-27069, 12-27068, 12-27480, and 12-27952 (Items 1 - 4 below) identify concerns raised by the NRC during the Walkdowns. Cards 12-27069, 12-27480 and 12-27952 (Items 1, 2 and 4 below) raised concerns with the walkdown process and scope, not equipment or structure. Since the concerns were not raised by SWEs, they are not included in Appendices C or D. CARDs discussed below in Item 5 were initiated by the Peer Reviewer and are included in Appendix C.

1) The NRC Resident Inspector accompanied a team of SWEs on one of its first Walkdowns (Testability Panel H21P085) and raised concerns over the adequacy of preparation.

CARD 12-27069 was initiated and a Stand-Down with all SWEs and the Peer Review Team was held to address this issue. The Stand-Down reinforced the need to make certain that all necessary tools for performing the Walkdowns be discussed during the Pre-Job Brief. It was stressed that the SWE teams should have the appropriate drawings with them, and that drawings should be consulted prior to and during the Walkdown. The Peer Review Team as well as Engineering Managers attended Pre-Job Briefs and Walkdowns following the Stand-down to reinforce these expectations. The Walkdown was repeated after the Stand-down and lessons learned were discussed. The Peer Review Team followed up by verifying appropriate drawings and tools were being used during Walkdowns and Walk-Bys.

2) CARD 12-27068 was initiated because a SWE team performed a Walkdown without the NRC Resident, despite a prior agreement to perform a joint Walkdown.

3) The NRC Resident Inspector performed an independent Walkdown of the HPCI Turbine Driven Oil Pump E4101C001C and questioned the statement in the SWC that attached lines had adequate flexibility. CARD 12-27480 was initiated to address the question. The stress analysis showed the lines had been analyzed and found to have adequate flexibility. The Peer Review Team performed a review of other Walkdown packages for similar considerations. The concern was found to be limited to the E4101C001C and HPCI system.

4) In response to the NRC Revised Position (Reference 18 and Attachment 1), CARD 12-27952 was initiated. An extent of condition investigation was performed to identify cabinets with external anchorage that had not been opened during inspections. Walkdowns were supplemented and doors were opened to verify anchorage inside cabinets. Table C-1 identifies the supplemental assets. The Peer Review Team accompanied SWEs during the follow up inspections in the Switchgear Room, Relay Room and RHR Complex.

5) During a review of CCHVAC Chiller T4100B009, SWEs noted that although there was little clearance between isolation plates, this was seismically acceptable because the isolators are for mechanical vibration and that seismic restraints carry seismic loads. The Peer Review Team requested that SWEs provide further justification of this conclusion. The seismic design calculation (Deco File B9-653) and the vendor manual (VMS25-39) were reviewed, but no clearances were specified. A member of the Peer Review Team and a PSE engineer familiar with HVAC systems in the plant and seismic qualification performed an independent walkdown of isolators on both Div. 1 and Div. 2 CCHVAC Chillers. Clearances were checked and pictures taken. CARDs 12-28245 and 12-28246 were generated to document a missing isolator bolt and rust found during the walkdown. The vendor (Trane Company) was contacted and provided pictures taken during the walkdown. The vendor stated that due to the age of the equipment, additional time would be needed to locate information about the isolators and clearances

between the isolation plates. CARD 12-28393 was generated to track resolution and adjustment of the isolators.

8.3 Review the Decisions for Entering Potentially Adverse Conditions into the CAP Process

CARDs generated from Walkdowns are discussed in Sections 5.2 and 5.3. It was found that the threshold for entering potentially adverse seismic conditions into the CAP process was low enough to ensure that any potential licensing basis issue was documented and reviewed by appropriate Engineering and Operations personnel.

8.4 Licensing Basis Evaluations

All potentially adverse seismic conditions identified during Walkdowns, that could not be justified by examining appropriate Design Documents, were documented using the CAP. No Licensing Basis Evaluations as defined per the EPRI report were performed outside the CAP.

8.5 Review of Submittal Report

For a discussion of the Peer Review of the Submittal Report, see Appendix F.

9 References

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

1. EPRI Technical Report 1025286, "Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic", dated June 2012.

2. Fermi 2 Updated Final Safety Analysis Report (UFSAR), Revision 17a, dated June 22, 2011.

3. NRC Letter, Endorsement of Electric Power Research Institute (EPRI) Draft Report 1025286, "Seismic Walkdown Guidance", dated May 31, 2012.

4. NRC-96-0037, "Detroit Edison, Fermi 2, Individual Plant Examination (External Events)", dated March 29, 1996.

5. Not used

6. EPRI Report NP-6041-SL Revision 1, "Methodology for Assessment of Nuclear Power Plant Seismic Margin", dated August 1991.

7. NRC Inspection Manual, "Inspection of Near Term Task Force Recommendation 2.3 Seismic Walkdowns", dated July 6, 2012.

8. NRC (E Leeds and M Johnson) Letter to all power reactor Licensees et al., "Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) regarding 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.

9. EPRI Report 1023422, "EPRI Fukushima Daini Independent Review and Walkdown", dated August 2001.

10. Generic Letter No. 88-20, Supplement 4, "Individual Plant Examination of External Events (IPEEE) for Severe Accident Vulnerabilities -- 10CFR50.54(f)", dated June 28, 1991.

11. Regulatory Issues Summary 2005-20, Revision 1, "Revision to NRC Inspection manual Part 9900 Technical Guidance", dated September 26, 2005.

12. Not used.

13. NJPR-12-0043, "Fermi 2 Seismic Walkdown and Area Walk-By Guideline in Support of NTTF 2.3 Section 4", dated August 16, 2012.

14. NJPR-12-0053, "Selection of Assets for Seismic Walkdown SWEL 1 and SWEL 2", dated August 27, 2012.

15. Title 10 Code of Federal Regulations, Part 50, Section 50.54(f).

16. NUREG-1742 Vol. I, "Perspectives Gained from Individual Plant Examinations of External Events (IPEEE) Program", dated April 2002.

17. NUREG-1407, "Procedural and Submittal Guidance for the Individual Plant Examination of External Events (IPEEE) for Severe Accident Vulnerabilities", dated June 1991.

18. NRC's Revised Position – Provided to Inspection Branch on September 18, 2012 (Document is included as Attachment 1 to this report).

19. Design Basis Document XXX-03, Revision A, "Seismic Design and Qualification", dated December 27, 1994.

20. Design Specification 3071-296, Revision B, "Seismic Qualification of Equipment", dated January 23, 1995.

21. Reg. Guide 1.29, Revision 3, US Nuclear Regulatory Commission, "Seismic Design Classification", dated September 1978.

22. IEEE 344-1971, "Guide for Seismic Qualification of Class I Electrical Equipment for Nuclear Power Generating Stations".

23. IEEE 344-1975, "Recommended Practices for Seismic Qualification of Class IE Equipment for Nuclear Power Generating Stations", dated November 1977.

24. Design Specification 3071-031 Revision S, "Pipe Erection", dated June 17, 2002.

25. IE Bulletin 80-11, "Masonry Block Walls", dated May 8, 1980.

26. Fermi Design Calculation DC-0841 Vol I, Revision K, "Seismic Analysis of Block Walls in Reactor/Auxiliary Buildings", dated January 30, 1996.

27. Fermi Design Calculation DC-4479 Vol I, Revision B, "Evaluation of Masonry Walls for DER 86-167", dated September 1, 1987.

28. MMR App E, "Maintenance Rule Conduct Manual Appendix E – Maintenance Rule SSC Specific Functions", Revision 14.

29. MMR App G, "Maintenance Rule Conduct Manual Appendix G – Risk Significant List", Revision 0.

30. MWC13, "Work Control Conduct Manual, Outage Nuclear Safety", Revision 9.

31. MMR04, "Maintenance Rule Conduct Manual – Determination of Risk Significance", Revision 3.

Appendix A
SWE Qualification List

Personnel Qualifications for PSE-53 Seismic Engineer Walkdown QG, 42004975, during September 2012

Name	Maximo ID	Date of Qualification
George Abdallah	00052146	8/10/2012
Scott Bauer	00114276	8/10/2012
Whitney Hemingway	00116987	8/10/2012
Timothy Hoffman	00116988	8/10/2012
Andrew Kulikowski	00117118	8/10/2012
Marc Meyer	00106713	8/10/2012
Michael Sasso	00110094	8/10/2012
Mark Simpson	00116446	8/10/2012
Joseph LaVere	00117490	8/10/2012
David Dickinson	00120473	8/10/2012
Rohit Vadhar	00120474	8/10/2012

Appendix B
Equipment Lists

Appendix B contains the equipment lists that were developed during SWEL development. Note that because no Rapid Drain-Down asset exists for Fermi 2, there is no Rapid Drain-Down Equipment List.

The following contents are found in Appendix B:

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	0	B2100F001	NB RPV HEAD VENT MAN BYPASS VLV	DW	3		55DEG	640'05"				X	X				35336n									I	N	
No	0	B2100F002	NB RPV HEAD VENT MAN BYPASS VLV	DW	3		55DEG	641'11"				X	X				35336n									I	N	
No	0	B2100F010A	NB FEEDWATER SPLY INBD PC CHECK VLV	DW	1		12DEG	595'00"		X		X	X				36178n									I	Y	
No	0	B2100F010B	NB FEEDWATER SPLY INBD PC CHECK VLV	DW	1		348DEG	595'00"		X		X	X				36178n									I	Y	
No	7	B2100F076B	NB FEEDWATER SPLY CHECK AOV	RB	1	A-16	F-12	589'06"		X		X	X													I	Y	
No	0	B2100F532	NB N410A PS & N411A PS SOURCE VLV	DW	1		310DEG	609'09"				X	X				28976n									I	N	
No	0	B2100F579A	NB FEEDWATER SUPPLY INBD B2100F010A ISO DRAIN VALVE	DW	1		12DEG	594'00"				X	X				36178n									I	N	
No	0	B2100F579B	NB FEEDWATER SUPPLY INBD B2100F010B ISO DRAIN VALVE	DW	1		348DEG	594'00"				X	X				36178n									I	N	
No	0	B2100F580A	NB FEEDWATER SUPPLY INBD B2100F010A DRAIN VALVE	DW	1		12DEG	593'06"				X	X				36178n									I	N	
No	0	B2100F580B	NB FEEDWATER SUPPLY INBD B2100F010B DRAIN VALVE	DW	1		348DEG	593'06"				X	X				36178n									I	N	
No	0	B2100F581A	NB FEEDWATER OTBD B2100F032A ISO VENT VLV	RB	1	A-16	F-12	595'06"				X	X				36178n									I	N	
No	0	B2100F581B	NB FEEDWATER OTBD B2100F032B ISO VENT VLV	RB	1	A-16	F-12	595'06"				X	X				36178n									I	N	
No	0	B2100F582A	NB FEEDWATER OTBD B2100F032A VENT VLV	RB	1	A-16	F-12	595'09"				X	X				36178n									I	N	
No	0	B2100F582B	NB FEEDWATER OTBD B2100F032B VENT VLV	RB	1	A-16	F-12	595'09"				X	X				36178n									I	N	
No	0	B2100F583A	NB FEEDWATER OTBD B2100F076A ISO DRAIN VLV	RB	1	A-16	F-12	593'00"				X	X				36178n									I	N	
No	0	B2100F583B	NB FEEDWATER OTBD B2100F076B ISO DRAIN VLV	RB	1	A-16	F-12	593'00"				X	X				36178n									I	N	
No	0	B2100F584A	NB FEEDWATER OTBD B2100F076A DRAIN VLV	RB	1	A-16	F-12	593'00"				X	X				36178n									I	N	
No	0	B2100F584B	NB FEEDWATER OTBD B2100F076B DRAIN VLV	RB	1	A-16	F-12	592'09"				X	X				36178n									I	N	
No	DS	B2100S003	NB DIV1 SOLENOID OPERATED VLV F433 AND F434 TERMINAL BOX	RB	1	A-12	G-13	583'06"				X	X				35267n									I	N	
No	8	B2103F016	NB MAIN STEAM DRAIN LINE INBD PC ISO MOV	DW	1		10 DEG	586'06"				X	X				26355n									I	Y	
No	8	B2103F022B	NB MSL "B" INBD PC ISO AOV	DW	1		17DEG	588'00"		X		X	X													I	Y	
No	8	B2103F022C	NB MSL "C" INBD PC ISO AOV	DW	1		343DEG	588'00"		X		X	X													I	Y	
No	8	B2103F028A	NB MSL "A" OTBD PC ISO AOV	RB	1	A-16	F-12	589'06"		X		X	X													I	Y	
No	8	B2103F028D	NB MSL "D" OTBD PC ISO AOV	RB	1	A-16	F-12	598'06"		X		X	X													I	Y	
No	21	B2104A003A	NB SRV ADS ACCUMULATOR	DW	1		D-13	616'03"		X		X	X													I	N	
No	21	B2104A003B	NB SRV ADS ACCUMULATOR	DW	1		E-13	619'03"		X		X	X													I	N	
No	21	B2104A003C	NB SRV ADS ACCUMULATOR	DW	1		E-12	619'03"		X		X	X													I	N	
No	21	B2104A003D	NB SRV ADS ACCUMULATOR	DW	1		E-13	617'06"		X		X	X													I	N	
No	21	B2104A003E	NB SRV ADS ACCUMULATOR	DW	1		D-13	615'09"		X		X	X													I	N	
No	7	B2104F013E	NB MSL "C" RELIEF VLV	DW	2		290DEG	612'09"		X		X	X													I	Y	
No	7	B2104F013H	NB MSL "C" RELIEF VLV	DW	2		323DEG	612'09"		X		X	X													I	Y	
No	7	B2104F013J	NB MSL "C" RELIEF VLV	DW	2	A-15	314DEG	612'09"		X		X	X													I	Y	
No	7	B2104F013R	NB MSL "C" RELIEF VLV	DW	2	A-15	282DEG	612'09"		X		X	X													I	Y	
No	8	B21F013A	NB DIV1 SRV B2104F013A SOV	DW	1		320DEG	612'09"				X	X				29213n									I	Y	
No	8	B21F013B	NB DIV1 SRV B2104F013B SOV	DW	1		300DEG	612'09"				X	X				29213n									I	N	
No	8	B21F013C	NB DIV2 SRV B2104F013C SOV	DW	1		045DEG	612'09"				X	X				29213n									I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	8	B21F013D	NB DIV2 SRV B2104F013D SOV	DW	1		062DEG	612'09"				X	X				29213n										I	N	
No	8	B21F013F	NB DIV2 SRV B2104F013F SOV	DW	1		061DEG	612'09"				X	X				29213n										I	N	
No	8	B21F013G	NB DIV2 SRV B2104F013G SOV	DW	1		040DEG	612'09"				X	X				29213n										I	N	
Yes	8	B21F013H	NB DIV1 SRV B2104F013H SOV	DW	1		323DEG	612'09"		X		X	X				29213n	N		Y	Y			Y	Y		I	Y	
No	8	B21F013K	NB DIV2 SRV B2104F013K SOV	DW	1		070DEG	612'09"				X	X				29213n										I	N	
No	8	B21F013L	NB DIV2 SRV B2104F013L SOV	DW	1		040DEG	612'09"				X	X				29213n										I	N	
No	8	B21F013M	NB DIV2 SRV B2104F013M SOV	DW	1		045DEG	612'09"				X	X				29213n										I	N	
No	8	B21F013N	NB DIV2 SRV B2104F013N SOV	DW	1		045DEG	612'09"				X	X				29213n										I	N	
Yes	8	B21F013P	NB DIV1 SRV B2104F013P SOV	DW	1		315DEG	612'09"		X		X	X				29213n	N		Y	Y			Y	Y		I	Y	
Yes	8	B21F013R	NB DIV1 SRV B2104F013R SOV	DW	1		289DEG	612'09"		X		X	X				29213n	N		Y	Y			Y	Y		I	Y	
No	8	B21F022B	NB MSL "B" INBD PC ISO AOV V17-2001 SOV	DW	1		000DEG	589'06"		X		X	X														I	Y	
No	8	B21F022B	NB MSL "B" INBD PC ISO AOV V17-2001 SOV	DW	1		000DEG	589'06"		X		X	X														I	Y	
No	8	B21F022C	NB MSL "C" INBD PC ISO AOV V17-2002 SOV	DW	1		000DEG	589'06"		X		X	X														I	Y	
No	8	B21F022D	NB MSL "D" INBD PC ISO AOV V17-2004 SOV	DW	1		000DEG	589'06"		X		X	X														I	Y	
No	8	B21F028A	NB MAIN STEAM ISO FOR RPV STEAM LINE TO TURBINE V17-2007 SOV	RB	1	A-16	F-12	589'06"		X		X	X														I	Y	
No	8	B21F028B	NB MAIN STEAM ISO FOR RPV STEAM LINE TO TURBINE V17-2005 SOV	RB	1	A-16	F-12	589'06"		X		X	X														I	Y	
No	8	B21F028C	NB MAIN STEAM ISO FOR RPV STEAM LINE TO TURBINE V17-2006 SOV	RB	1	A-16	F-12	589'06"		X		X	X														I	Y	
No	8	B21F434	NB MSIVLC DIV1 CTRL AIR SHUT-OFF TO B2100F434 SOV	RB	1	A-12	G-13	588'01"				X	X				35267n										I	Y	
No	20	B21K401	NB RPV WTR LVL WIDE RNG DIV2 MODULATOR LSC	AB	2		F-14	613'06"		X		X	X														I	Y	
No	20	B21K402A	NB RPV WTR LVL FUEL ZONE - MOD/ISO DIV1 LSC	AB	2	B-15	F-15	613'06"		X		X	X														I	Y	
No	20	B21K402B	NB RPV WTR LVL FUEL ZONE - MOD/ISO DIV2 LSC	AB	2	B-15	F-14	613'06"		X		X	X														I	Y	
No	18	B21K609A	NB TRANS ECCS SERVICE DIV1 PWR SPLY	AB	4	B-24	F-12	659'06"		X		X	X														I	N	
No	18	B21K609B	NBS TRANS ECCS SERVICE DIV2 PWR SPLY	AB	4	B-24	F-11	659'06"		X		X	X														I	N	
No	18	B21K609C	NB TRANS ECCS SERVICE DIV1 PWR SPLY	AB	4	B-24	F-12	659'06"		X		X	X														I	N	
No	18	B21K609D	NBS TRANS ECCS SERVICE DIV2 PWR SPLY	AB	4	B-24	F-11	659'06"		X		X	X														I	N	
No	18	B21K610A	NB TRANS ECCS SERVICE DIV1 PWR SPLY	AB	4	B-24	F-12	659'06"		X		X	X														I	N	
No	18	B21K610B	NBS TRANS ECCS SERVICE DIV2 PWR SPLY	AB	4	B-24	F-11	659'06"		X		X	X														I	N	
No	18	B21K610C	NB TRANS ECCS SERVICE DIV1 PWR SPLY	AB	4	B-24	F-12	659'06"		X		X	X														I	N	
No	18	B21K610D	NBS TRANS ECCS SERVICE DIV2 PWR SPLY	AB	4	B-24	F-11	659'06"		X		X	X														I	N	
No	18	B21K613A	NB RPV PRESS INSTRUMENT DIV1 PWR SPLY	AB	2	B-15	F-16	613'06"		X		X	X														I	N	
No	18	B21K613B	NB RPV PRESS INSTRUMENT DIV2 PWR SPLY	AB	2	B-15	F-14	613'06"		X		X	X														I	N	
No	18	B21K801A	NB STEAM LDS DIV1 PWR SPLY	AB	2	B-15	F-14	613'06"		X		X	X														I	N	
No	18	B21K801B	NB STEAM LDS DIV2 PWR SPLY	AB	2	B-15	F-14	613'06"		X		X	X														I	N	
No	20	B21K815	NB MSIVLC DIV1 CTRL AIR CURRENT TO VOLTAGE CONVERTER	AB	2	B-15	F-15	613'06"		X		X	X														I	Y	
No	20	B21K816	NB MSIVLC DIV1 CTRL AIR CURRENT TO VOLTAGE CONVERTER	AB	2	B-15	F-15	613'06"		X		X	X														I	N	
No	20	B21K817	NB MSIVLC DIV1 CTRL AIR CURRENT TO VOLTAGE CONVERTER	AB	2	B-15	F-15	613'06"		X		X	X														I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	20	B21K827	NB MSIVLC DIV2 CTRL AIR CURRENT TO VOLTAGE CONVERTER	AB	2	B-15	GG-14	613'06"		X		X	X														I	N	
No	20	B21K828	NB MSIVLC DIV2 CTRL AIR CURRENT TO VOLTAGE CONVERTER	AB	2	B-15	GG-14	613'06"		X		X	X														I	N	
No	20	B21K829	NB MSIVLC DIV2 CTRL AIR CURRENT TO VOLTAGE CONVERTER	AB	2	B-15	GG-14	613'06"		X		X	X														I	N	
No	18	B21K839	NB MSIVLC CTRL AIR DIV1 (POWER DIST MODULE) PWR SPLY	AB	2	B-15	F-15	613'06"		X		X	X														I	N	
No	18	B21K842	NB MSIVLC CTRL AIR DIV2 (POWER DIST MODULE) PWR SPLY	AB	2	B-15	GG-14	613'06"		X		X	X														I	N	
No	20	B21K845	NB ISOLATED MSIVLC DIV1 CTRL AIR VOLTAGE TO CURR CONV	AB	2	B-15	F-15	613'06"		X		X	X														I	Y	
No	20	B21K846	NB ISOLATED MSIVLC DIV1 CTRL AIR VOLTAGE TO CURR CONV	AB	2	B-15	F-15	613'06"		X		X	X														I	Y	
No	20	B21K847	NB ISOLATED MSIVLC DIV2 CTRL AIR VOLTAGE TO CURR CONV	AB	2	B-15	GG-14	613'06"		X		X	X														I	N	
No	20	B21K848	NB ISOLATED MSIVLC DIV2 CTRL AIR VOLTAGE TO CURR CONV	AB	2	B-15	GG-14	613'06"		X		X	X														I	N	
No	18	B21K849	NB MSIVLC CTRL AIR DIV1 (POWER DIST MODULE) PWR SPLY	AB	2	B-15	F-15	613'06"		X		X	X														I	N	
No	18	B21K850	NB MSIVLC CTRL AIR DIV2 (POWER DIST MODULE) PWR SPLY	AB	2	B-15	G-14	613'06"		X		X	X														I	N	
No	20	B21K857A	NB RX WIDE RNG WTR LVL MOD/ISO LSC	AB	4	B-24	F-12	659'06"		X		X	X														I	Y	
No	DS	B21L454	NB DIV2 SRV B2104F013A SERVICE TAILPIPE PRESS TAP	DW	1		310DEG	609'09"				X	X				28976n									I	N	
No	18	B21N080A	NB RX LVL SCRAM (NARROW RNG) DIV1 LVL XMTR	RB	2		E-13	613'06"		X		X	X														I	Y	
No	18	B21N080B	NB RX LVL SCRAM (NARROW RNG) DIV1 LVL XMTR	RB	2		E-13	613'06"		X		X	X														I	Y	
No	18	B21N080C	NB RX LVL SCRAM (NARROW RNG) DIV2 LVL XMTR	RB	2		C-11	613'06"		X		X	X														I	Y	
No	18	B21N080D	NB RX LVL SCRAM (NARROW RNG) DIV2 LVL XMTR	RB	2		C-11	613'06"		X		X	X														I	Y	
No	18	B21N081A	NB RX LVL 1 TRIP (WIDE RNG) DIV1 LVL XMTR	RB	2		E-13	613'06"		X		X	X														I	Y	
No	18	B21N081B	NB RX LVL 1 TRIP (WIDE RNG) DIV1 LVL XMTR	RB	2		E-13	613'06"		X		X	X														I	Y	
No	18	B21N081C	NB RX LVL 1 TRIP (WIDE RNG) DIV2 LVL XMTR	RB	2		C-11	613'06"		X		X	X														I	Y	
No	18	B21N081D	NB RX LVL 1 TRIP (WIDE RNG) DIV2 LVL XMTR	RB	2		C-11	613'06"		X		X	X														I	Y	
No	18	B21N085A	NB DIV1 RX WTR LVL 0 TRIP - FUEL ZONE RNG XMTR	RB	1		E-15	583'06"		X		X	X														I	Y	
No	18	B21N085B	NB DIV2 RX WTR LVL 0 TRIP - FUEL ZONE RNG XMTR	RB	1		D-10	583'06"		X		X	X														I	Y	
No	18	B21N090A	NB MAIN STEAM CS & RHR PERMISSIVE DIV1 PRESS XMTR	RB	2		E-13	613'06"		X		X	X														I	Y	
No	18	B21N090B	NB MAIN STEAM CS & RHR PERMISSIVE DIV2 PRESS XMTR	RB	2		C-11	613'06"		X		X	X														I	Y	
No	18	B21N090C	NB MAIN STEAM CS & RHR PERMISSIVE DIV1 PRESS XMTR	RB	1		E-15	583'06"		X		X	X														I	Y	
No	18	B21N090D	NB MAIN STEAM CS & RHR PERMISSIVE DIV2 PRESS XMTR	RB	1		D-10	583'06"		X		X	X														I	Y	
No	18	B21N091A	NB RX LVL 1 TRIP (WIDE RNG) DIV1 LVL XMTR	RB	2		E-13	613'06"		X		X	X														I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	B21N091B	NB RX LVL 1 TRIP (WIDE RNG) DIV2 LVL XMTR	RB	2		C-11	613'06"		X		X	X													I	Y	
No	18	B21N091C	NB RX LVL 1 TRIP (WIDE RNG) DIV1 LVL XMTR	RB	2		E-13	613'06"		X		X	X													I	Y	
No	18	B21N091D	NB RX LVL 1 TRIP (WIDE RNG) DIV2 LVL XMTR	RB	2		C-11	613'06"		X		X	X													I	Y	
No	18	B21N094A	NB DW PRESS HI DIV1 PRESS XMTR	RB	2		E-13	613'06"		X		X	X													I	Y	
No	18	B21N094B	NB DW PRESS HI DIV2 PRESS XMTR	RB	2		C-11	613'06"		X		X	X													I	Y	
No	18	B21N094C	NB DW PRESS HI DIV1 PRESS XMTR	RB	2		E-13	613'06"		X		X	X													I	Y	
No	18	B21N094D	NB DW PRESS HI DIV2 PRESS XMTR	RB	2		C-11	613'06"		X		X	X													I	Y	
No	18	B21N094E	NB DW PRESS HI DIV1 PRESS XMTR	RB	2		E-13	613'06"		X		X	X													I	Y	
No	18	B21N094F	NB DW PRESS HI DIV2 PRESS XMTR	RB	2		C-11	613'06"		X		X	X													I	Y	
No	18	B21N094G	NB DW PRESS HI DIV1 PRESS XMTR	RB	2		E-13	613'06"		X		X	X													I	Y	
No	18	B21N094H	NB DW PRESS HI DIV2 PRESS XMTR	RB	2		C-11	613'06"		X		X	X													I	Y	
No	18	B21N110A	NB STEAM DOME PRESS MAIN STEAM/RHR PERMISSIVE DIV1 PRESS XMTR	RB	2		E-13	613'06"		X		X	X													I	Y	
No	18	B21N110B	NB STEAM DOME PRESS MAIN STEAM/RHR PERMISSIVE DIV2 PRESS XMTR	RB	2		C-11	613'06"		X		X	X													I	Y	
No	18	B21N110C	NB STEAM DOME PRESS MAIN STEAM/RHR PERMISSIVE DIV1 PRESS XMTR	RB	2		E-13	613'06"		X		X	X													I	Y	
No	18	B21N110D	NB STEAM DOME PRESS MAIN STEAM/RHR PERMISSIVE DIV2 PRESS XMTR	RB	2		C-11	613'06"		X		X	X													I	Y	
No	18	B21N111A	NB RR PUMP HI PRESS DIV1 PRESS XMTR	RB	2		E-13	613'06"		X		X	X													I	Y	
No	18	B21N111B	NB RR PUMP HI PRESS DIV2 PRESS XMTR	RB	2		C-11	613'06"		X		X	X													I	Y	
No	18	B21N111C	NB RR PUMP HI PRESS DIV1 PRESS XMTR	RB	2		E-13	613'06"		X		X	X													I	Y	
No	18	B21N111D	NB RR PUMP HI PRESS DIV2 PRESS XMTR	RB	2		C-11	613'06"		X		X	X													I	Y	
Yes	19	B21N116A	NB MSL "A" LEAK DETECT DIV1 RTD	TB	2M		J-12	638'02"				X	X				27412n	N		Y	Y			Y	Y		I	Y	
Yes	19	B21N116C	NB MSL "C" LEAK DETECT DIV2 RTD	TB	2M		L-12	638'00"				X	X				27412n	N		Y	Y			Y	Y		I	Y	
Yes	19	B21N117A	NB MSL "A" LEAK DETECT DIV1 RTD	TB	2M		L-12	638'00"				X	X				27412n	N		Y	Y			Y	Y		I	Y	
Yes	19	B21N117B	NB MSL "B" LEAK DETECT DIV1 RTD	TB	2M		N-12	638'00"				X	X				27412n	N		Y	Y			Y	Y		I	Y	
Yes	19	B21N117C	NB MSL "C" LEAK DETECT DIV2 RTD	TB	2		M-11	638'00"				X	X				27412n	N		Y	Y			Y	Y		I	Y	
No	18	B21N410E	NB DIV1 SRV B2104F013E TAILPIPE PRESS SW	DW	1		301DEG	610'06"		X		X	X													I	Y	
No	18	B21N410H	NB DIV1 SRV B2104F013H TAILPIPE PRESS SW	DW	1		334DEG	611'00"		X		X	X													I	Y	
No	18	B21N410J	NB DIV1 SRV B2104F013J TAILPIPE PRESS SW	DW	1		312DEG	611'00"		X		X	X													I	Y	
No	18	B21N410P	NB DIV1 SRV B2104F013P TAILPIPE PRESS SW	DW	1		317DEG	610'06"		X		X	X													I	Y	
No	18	B21N410R	NB DIV1 SRV B2104F013R TAILPIPE PRESS SW	DW	1		290DEG	611'00"		X		X	X													I	Y	
No	18	B21N411E	NB DIV1 SRV B2104F013E TAILPIPE PRESS SW	DW	1		301DEG	610'06"		X		X	X													I	Y	
No	18	B21N411H	NB DIV1 SRV B2104F013H TAILPIPE PRESS SW	DW	1		334DEG	611'00"		X		X	X													I	Y	
No	18	B21N411J	NB DIV1 SRV B2104F013J TAILPIPE PRESS SW	DW	1		312DEG	611'00"		X		X	X													I	Y	
No	18	B21N411P	NB DIV1 SRV B2104F013P TAILPIPE PRESS SW	DW	1		317DEG	610'06"		X		X	X													I	Y	
No	18	B21N411R	NB DIV1 SRV B2104F013R TAILPIPE PRESS SW	DW	1		290DEG	611'00"		X		X	X													I	Y	
No	0	B21N415A	NB MSIVLC DIV1 ISO VLV B2100F434 OPEN POS SW	RB	1	A-12	F-12	594'04"				X	X				35267n										I	Y	
No	0	B21N415B	NB MSIVLC DIV1 ISO VLV B2100F434 CD POS SW	RB	1	A-12	F-12	594'04"				X	X				35267n										I	Y	
No	18	B21N450	NB MSIVLC CTRL AIR DIV2 FLOW XMTR	RB	1	A-12	D-10	583'06"		X		X	X													I	N	
No	18	B21N451	NB MSIVLC CTRL AIR DIV1 FLOW XMTR	RB	1	A-12	E-13	583'06"		X		X	X													I	N	
No	18	B21N484	NB MSIVLC CTRL AIR INJECTION DIV1 PDX	RB	1	A-12	E-13	583'06"				X	X				28818n										I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	B21N487	NB MSIVLC CTRL AIR INJECTION DIV2 PDX	RB	1	A-12	D-10	583'06"				X	X				28818n										I	N	
No	20	B21N610A	NB RX PRESS LPCI TRIP UNIT DIV1 MISC SIG CND	AB	4		F-12	659'06"		X		X	X														I	Y	
No	20	B21N610B	NB RX PRESS LPCI TRIP UNIT DIV2 MISC SIG CND	AB	4		F-11	659'06"		X		X	X														I	Y	
No	20	B21N610C	NB RX PRESS LPCI TRIP UNIT DIV1 MISC SIG CND	AB	4		F-12	659'06"		X		X	X														I	Y	
No	20	B21N610D	NB RX PRESS LPCI TRIP UNIT DIV2 MISC SIG CND	AB	4		F-11	659'06"		X		X	X														I	Y	
No	18	B21N680A	NB RX LVL 3 SCRAM TRIP UNIT DIV1 LVL IND SW	AB	4		F-12	659'06"		X		X	X														I	Y	
No	18	B21N680B	NB RX LVL 3 SCRAM TRIP UNIT DIV1 LVL IND SW	AB	4		F-12	659'06"		X		X	X														I	Y	
No	18	B21N680C	NB RX LVL 3 SCRAM TRIP UNIT DIV2 LVL IND SW	AB	4		F-11	659'06"		X		X	X														I	Y	
No	18	B21N680D	NB RX LVL 3 SCRAM TRIP UNIT DIV2 LVL IND SW	AB	4		F-11	659'06"		X		X	X														I	Y	
No	18	B21N681A	NB RX LVL 2 ISO TRIP UNIT DIV1 LVL IND SW	AB	4		F-12	659'06"		X		X	X														I	Y	
No	18	B21N681B	NB RX LVL 2 ISO TRIP UNIT DIV1 LVL IND SW	AB	4		F-12	659'06"		X		X	X														I	Y	
No	18	B21N681C	NB RX LVL 2 ISO TRIP UNIT DIV2 LVL IND SW	AB	4		F-11	659'06"		X		X	X														I	Y	
No	18	B21N681D	NB RX LVL 2 ISO TRIP UNIT DIV2 LVL IND SW	AB	4		F-11	659'06"		X		X	X														I	Y	
No	20	B21N684A	NB DIV1 RX LVL 1 ISO SLAVE TRIP UNIT	AB	4		F-12	659'06"		X		X	X														I	Y	
No	20	B21N684B	NB DIV1 RX LVL 1 ISO SLAVE TRIP UNIT	AB	4		F-12	659'06"		X		X	X														I	Y	
No	20	B21N684C	NB DIV2 RX LVL 1 ISO SLAVE TRIP UNIT	AB	4		F-11	659'06"		X		X	X														I	Y	
No	20	B21N684D	NB DIV2 RX LVL 1 ISO SLAVE TRIP UNIT	AB	4		F-11	659'06"		X		X	X														I	Y	
No	18	B21N685A	RX LVL 0 TRIP UNIT DIV1 LVL IND SW	AB	4		F-12	663'00"		X		X	X														I	Y	
No	18	B21N685B	RX LVL 0 TRIP UNIT DIV2 LVL IND SW	AB	4		F-11	659'06"		X		X	X														I	Y	
No	18	B21N690A	NB RX PRESS CS RHR TRIP UNIT DIV1 PI SW	AB	4		F-12	659'06"		X		X	X														I	Y	
No	18	B21N690B	NB RX PRESS CS RHR TRIP UNIT DIV2 MTU PI SW	AB	4		F-11	659'06"		X		X	X														I	Y	
No	18	B21N690C	NB RX PRESS CS RHR TRIP UNIT DIV1 PI SW	AB	4		F-12	659'06"		X		X	X														I	Y	
No	18	B21N690D	NB RX PRESS CS RHR TRIP UNIT DIV2 PI SW	AB	4		F-11	659'06"		X		X	X														I	Y	
No	18	B21N691A	NB RX LVL (1) TRIP UNIT DIV1 LVL IND SW	AB	4		F-12	659'06"		X		X	X														I	Y	
No	18	B21N691B	NB RX LVL (1) TRIP UNIT DIV2 LVL IND SW	AB	4		F-11	659'06"		X		X	X														I	Y	
No	18	B21N691C	NB RX LVL (1) TRIP UNIT DIV1 LVL IND SW	AB	4		F-12	659'06"		X		X	X														I	Y	
No	18	B21N691D	NB RX LVL (1) TRIP UNIT DIV2 LVL IND SW	AB	4		F-11	659'06"		X		X	X														I	Y	
No	20	B21N692A	NB DIV1 RX LVL 2 SLAVE TRIP UNIT	AB	4		F-12	659'06"		X		X	X														I	Y	
No	20	B21N692B	NB DIV2 RX LVL 2 SLAVE TRIP UNIT	AB	4		F-11	659'06"		X		X	X														I	Y	
No	20	B21N692C	NB DIV1 RX LVL 2 SLAVE TRIP UNIT	AB	4		F-12	659'06"		X		X	X														I	Y	
No	20	B21N692D	NB DIV2 RX LVL 2 SLAVE TRIP UNIT	AB	4		F-11	659'06"		X		X	X														I	Y	
No	20	B21N693A	NB DIV1 RX LVL 8 SLAVE TRIP UNIT	AB	4		F-12	659'06"		X		X	X														I	Y	
No	20	B21N693B	NB DIV2 RX LVL 8 SLAVE TRIP UNIT	AB	4		F-11	659'06"		X		X	X														I	Y	
No	20	B21N693C	NB DIV1 RX LVL 8 SLAVE TRIP UNIT	AB	4		F-12	659'06"		X		X	X														I	Y	
No	20	B21N693D	NB DIV2 RX LVL 8 SLAVE TRIP UNIT	AB	4		F-11	659'06"		X		X	X														I	Y	
No	20	B21N694A	NB RX DW PRESS HI TRIP UNIT DIV1 MISC SIG CND	AB	4		F-12	659'06"		X		X	X														I	Y	
No	20	B21N694B	NB RX DW PRESS HI TRIP UNIT DIV2 MISC SIG CND	AB	4		F-11	659'06"		X		X	X														I	Y	
No	20	B21N694C	NB RX DW PRESS HI TRIP UNIT DIV1 MISC SIG CND	AB	4		F-12	659'06"		X		X	X														I	Y	
No	20	B21N694D	NB RX DW PRESS HI TRIP UNIT DIV2 MISC SIG CND	AB	4		F-11	659'06"		X		X	X														I	Y	
No	20	B21N694E	NB RX DW PRESS HI TRIP UNIT DIV1 MISC SIG CND	AB	4		F-12	659'06"		X		X	X														I	Y	
No	20	B21N694F	NB RX DW PRESS HI TRIP UNIT DIV2 MISC SIG CND	AB	4		F-11	659'06"		X		X	X														I	Y	
No	20	B21N694G	NB RX DW PRESS HI TRIP UNIT DIV1 MISC SIG CND	AB	4		F-12	659'06"		X		X	X														I	Y	
No	20	B21N694H	NB RX DW PRESS HI TRIP UNIT DIV2 MISC SIG CND	AB	4		F-11	659'06"		X		X	X														I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	20	B21P400	NB SRV DIV2 RELAY CABINET	AB	3		G-11	643'06"		X		X	X														I	N	
No	20	B21P401	NB SRV DIV2 RELAY CABINET	AB	3		G-11	643'06"		X		X	X														I	N	
No	18	B21P402E	NB SERVICE TAILPIPE PRESS DIV1 INSTRUMENT RACK	DW	1		301DEG	611'00"		X		X	X														I	N	
No	18	B21P402H	NB DIV1 SERVICE TAILPIPE PRESS INSTRUMENT RACK	DW	1		334DEG	610'06"		X		X	X														I	N	
No	18	B21P402J	NB SERVICE TAILPIPE PRESS DIV1 INSTRUMENT RACK	DW	1		312DEG	611'00"		X		X	X														I	N	
No	18	B21P402P	NB SERVICE TAILPIPE PRESS DIV1 INSTRUMENT RACK	DW	1		317DEG	611'00"		X		X	X														I	N	
No	18	B21P402R	NB SERVICE TAILPIPE PRESS DIV1 INSTRUMENT RACK	DW	1		290DEG	611'00"		X		X	X														I	N	
No	18	B21P405	NB MSIVLC DIV1 JUNCTION BOX	AB	1		G-13	600'00"				X	X				35267n										I	N	
No	18	B21P407	NB DIV1 AIR OPERATED VLV B2100F433 AND B2100F434 SPLICE BOX	DW	1		G-13	606'10"				X	X				35267n										I	N	
No	20	B21R610	NB RX WTR LVL FUEL ZONE RNG RECORDER	AB	3	B-23	G-13	643'06"				X	X				27413n										I	Y	
Yes	20	B21R615	NB RX WTR LVL FUEL ZONE RNG RECORDER	AB	3		F-13	643'06"		X		X	X				27413n	Y	Y						Y		I	Y	
Yes	20	B21R623A	NB RPV LVL & PRESS RECORDER	AB	3		G-13	643'06"		X		X	X				27297 28862	Y	Y						Y		I	Y	
Yes	20	B21R623B	NB RPV LVL & PRESS RECORDER	AB	3		F-13	643'06"		X		X	X				27297 28862	Y	Y						Y		I	Y	
No	7	B3100F014A	RR CRD SPLY TO DIV1 INBD SEAL CAVITY INBD CNTM ISO AOV	DW	B		310DEG	575'00"		X		X														I	Y	
No	7	B3100F014B	RR CRD SPLY TO DIV2 INBD SEAL CAVITY INBD CNTM ISO AOV	DW	B		135DEG	580'00"		X		X														I	Y	
No	7	B3100F016A	RR CRD SPLY TO DIV1 INBD SEAL CAVITY OTBD CNTM ISO AOV	RB	1		D-15	592'00"		X		X														I	Y	
No	7	B3100F016B	RR CRD SPLY TO DIV2 INBD SEAL CAVITY OTBD CNTM ISO AOV	RB	1	A-12	E-11	595'00"		X		X														I	Y	
No	7	B3100F019	RR RX WTR SAMPLE LINE INBD CNTM ISO AOV	DW	2		338DEG	625'00"				X					35441n										I	Y	
No	7	B3100F020	RR RX WTR SAMPLE LINE OTBD CNTM ISO AOV	RB	2		E-13	625'00"				X					35441n										I	Y	
No	0	B3100F114A	RR PUMP COVER PRESS / VENT-PUMP A OTBD ISO VLV	RB	1	A-15	E-13	582'08"				X					29328n										I	Y	
No	0	B3100F114B	RR PUMP COVER PRESS / VENT-PUMP B OTBD ISO VLV	RB	1	A-15	C-11	582'08"				X					29328n										I	Y	
No	0	B3100F115A	RR PUMP COVER PRESS / VENT-PUMP A INBD ISO VLV	RB	1	A-15	E-13	582'08"				X					29328n										I	Y	
No	0	B3100F115B	RR PUMP COVER PRESS / VENT-PUMP B INBD ISO VLV	RB	1	A-15	C-11	582'08"				X					29328n										I	Y	
Yes	5	B3101C001A	REACTOR RECIRCULATION "A" PUMP	DW	1	A-15	320DEG	583'06"										Y	Y						Y		I	Y	
Yes	5	B3101C001B	REACTOR RECIRCULATION "B" PUMP	DW	B		135DEG	568'00"									35954y	Y	Y						Y		I	Y	
No	DS	B3101G006A	RR PUMP COVER VENT-PUMP "A" FLEXIBLE HOSE	RB	1	A-15	E-13	580'11"									29328n										I	N	
No	DS	B3101G006B	RR PUMP COVER VENT-PUMP "B" FLEXIBLE HOSE	RB	1	A-15	C-11	582'00"									29328n										I	N	
No	DS	B3101G007A	RR LOWER SEAL PRESS / VENT-PUMP "A" FLEXIBLE HOSE	RB	1	A-15	E-13	582'00"									29328n										I	N	
No	DS	B3101G007B	RR LOWER SEAL PRESS / VENT-PUMP "B" FLEXIBLE HOSE	RB	1	A-15	C-11	582'00"									29328n										I	N	
No	8	B3105F023A	RR PMP "A" SUCT MOV	DW	B	A-12	342DEG	574'05"									29258n										I	Y	
No	8	B3105F023B	RR PMP "B" SUCT MOV	DW	B		130DEG	574'05"									29258n										I	N	
No	8	B3105F031A	RR PMP "A" DISCH MOV	DW	B		290DEG	578'09"									29258n										I	Y	
Yes	8	B3105F031A	RR PMP "A" DISCH MOV	DW	B		290DEG	578'09"									35621y	N		Y	Y			Y	Y		I	Y	
No	8	B3105F031B	RR PMP "B" DISCH MOV	DW	B		110DEG	578'09"									29258n										I	Y	

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IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
Yes	8	B3105F031B	RR PMP "B" DISCH MOV	DW	B		110DEG	578'09"									35621y	Y	Y						Y		I	Y	
No	18	B31N111A	RR PUMP B3101C001B SUCT PRESS DIV1 RHR VLV INTERLOCK PRESS XMTR	RB	B	A-07	B-15	562'00"		X																	I	Y	
No	18	B31N111B	RR PUMP B3101C001B SUCT PRESS DIV2 RHR VLV INTERLOCK PRESS XMTR	RB	B	A-06	B-10	562'00"		X																	I	Y	
No	20	B31N611A	RR PUMP SUCT C001B RHR VLV INT LEAK PRESS TRIP UNIT MSCE	AB	4		F-12	659'06"		X																	I	Y	
No	20	B31N611B	RR PMP SUCT C001B RHR VLV INT LEAK PRESS TRIP UNIT MSCE	AB	4		F-11	659'06"		X																	I	Y	
No	7	C1100F010	CRD SCRAM DISCH VOL VENT AOV	RB	1		C-15	600'07"		X	X		X														I	Y	
No	7	C1100F011	CRD SCRAM DISCH HEADERS CLEAN RW DRAIN AOV	RB	B	A-01	230DEG	573'11"		X	X		X														I	Y	
Yes	7	C1100F180	CRD SCRAM DISCH VOL VENT AOV	RB	1		C-15	600'07"			X		X					Y	Y						Y		I	Y	
No	7	C1100F181	CRD SCRAM DISCH VOL TO TORUS ROOM SUMP D065 DRAIN AOV	RB	B		C-13	573'11"		X	X		X														I	Y	
No	21	C1103D001	CRD NUMBER 30-55 HYD CTRL UNIT	RB	1	A-12	E-15	586'06"		X	X		X														I	Y	
Yes	21	C1103D010	CRD NUMBER 22-51 HYD CTRL UNIT	RB	1	A-12	E-15	586'06"	X		X		X					Y	Y						Y		I	Y	
Yes	21	C1103D112	CRD NUMBER 42-55 HYD CTRL UNIT	RB	1	A-12	E-10	586'06"	X		X		X					Y	Y						Y		I	Y	
No	8	C11F162A	CRD DIV1 SOV	RB	1		C-15	591'00"		X	X		X														I	Y	
No	8	C11F162B	CRD DIV2 SOV	RB	1		C-15	586'00"		X	X		X														I	Y	
No	8	C11F162C	CRD DIV1 SOV	RB	1		C-10	590'08"		X	X		X														I	Y	
No	8	C11F162D	CRD DIV2 SOV	RB	1		C-10	590'08"		X	X		X														I	Y	
No	8	C11F163B	CRD SOV	RB	1		C-13	586'00"		X	X		X														I	Y	
No	8	C11F182B	CRD SCRAM DISCH VOL VENT & DRAIN VLV F180 & F181 PILOT AIR 'B' SOV	RB	1		C-13	583'06"		X	X		X														I	N	
No	8	C11F409A	CRD SOL SCRAM PILOT AIR TO VLV C1100F010 AND C1100F011 SOV	RB	1		C-13	589'03"		X	X		X														I	N	
No	8	C11F409B	CRD SOL SCRAM PILOT AIR TO VLV C1100F010 AND C1100F011 SOV	RB	1		C-13	589'03"		X	X		X														I	N	
No	18	C11P401	CRD INST RACK CRD	RB	1		C-13	583'06"		X	X		X														I	N	
No	18	C32N003A	FWC MSL "A" DIFF PRESS XMTR	RB	1	A-12	D-15	583'06"			X						27412n										I	Y	
No	18	C32N003B	FWC MSL "B" DIFF PRESS XMTR	RB	1	A-12	D-15	583'06"			X						27412n										I	Y	
No	18	C32N003C	FWC MSL "C" DIFF PRESS XMTR	RB	1	A-12	D-15	583'06"			X						27412n										I	Y	
No	18	C32N003D	FWC MSL "D" DIFF PRESS XMTR	RB	1	A-12	D-15	583'06"			X						27412n										I	Y	
No	18	C32N004A	FWC RX VESSEL LVL XMTR ELEC	RB	2	A-17	E-13	613'06"			X						27412n										I	N	
No	18	C32N004B	FWC RX VESSEL LVL XMTR ELEC	RB	2	A-17	C-11	613'06"			X						27412n										I	N	
No	18	C32N004C	FWC RX VESSEL LVL XMTR ELEC	RB	2	A-17	E-13	613'06"			X						27412n										I	N	
No	18	C32N004D	FWC RX VESSEL LVL XMTR	RB	2	A-17	C-11	613'06"			X						27412n										I	N	
No	18	C32N005A	FWC RX VESSEL PRESS XMTR	RB	2		E-13	615'01"			X						27412n										I	Y	
No	18	C32N005B	FWC RX VESSEL PRESS XMTR	RB	2	A-17	C-11	615'10"			X						27412n										I	Y	
No	18	C32N005C	FWC RX VESSEL PRESS XMTR	RB	2	A-17	E-13	613'06"			X						27412n										I	N	
No	18	C32N005D	FWC RX VESSEL PRESS XMTR (SPARE)	RB	2	A-17	C-11	613'06"			X						27412n										I	N	
No	18	C32N008	FWC RX VESSEL PRESS XMTR	RB	2		C-11	613'06"			X						27412n										I	Y	
No	20	C35K410	RSD RX VESSEL LVL DIV1 LVL SIG CND	AB	4		F-12	659'06"		X	X																I	Y	

Table B-1:. Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	20	C35R001	RSD DW PRESS IND ELEC	RB	2		F-10	613'06"		X	X															I	Y	
No	0	C3600F009	DSD WIDE RANGE TORUS LVL XMTR C36N405 HI SIDE VENT VLV	RB	SB		A-15	540'00"			X						27606n										I	Y	
No	0	C3600F010	DSD WIDE RANGE TORUS LVL XMTR C36N405 LOW SIDE VENT VLV	RB	SB		A-15	540'00"			X						27606n										I	Y	
Yes	20	C3600M030	DSD DIV1 RX BLDG CLOSED COOL WTR RETURN ISO VLV P4400F601A CTRL TRANS SW	RB	2		B-15	613'06"			X						29183y	Y	Y						Y		I	Y	
Yes	20	C3600M141	DSD DIV1 EECW DW RETURN OUTBOARD ISO VLV P4400F607A CTRL TRANS SW	RB	2		B-10	613'06"			X						29183y	Y	Y						Y		I	Y	
No	0	C4100F001	SLC STORAGE TANK ISO VLV	RB	4	A-33	E-10	660'08"		C41	X															I	Y	
No	0	C4100F002A	SLC PUMP "A" SUCTION VLV	RB	4	A-33	E-10	660'08"		C41	X															I	N	
No	0	C4100F002B	SLC PUMP "B" SUCTION VLV	RB	4	A-33	F-10	660'08"		C41	X															I	N	
No	0	C4100F003A	SLC PUMP "A" DISCH VLV	RB	4	A-33	F-10	662'05"		C41	X															I	N	
No	0	C4100F003B	SLC PUMP "B" DISCH VLV	RB	4	A-33	F-10	662'05"		C41	X															I	N	
No	0	C4100F006	STANDBY LIQUID CONTROL OUTBOARD CHECK VLV	RB	2		C-12	633'01"		C41	X															I	Y	
No	0	C4100F007	STANDBY LIQUID CONTROL INBOARD CHECK VLV	DW	1		175DEG	607'09"		C41	X															I	Y	
No	0	C4100F008	SLC MANUAL INJECTION VLV	DW	1		175DEG	607'09"		C41	X															I	N	
No	0	C4100F014	SLC SUCTION LINE DEMINERALIZER WTR SPLY VLV	RB	4	A-33	E-10	659'06"		C41	X															I	N	
No	0	C4100F015	SLC SUCTION PIPING DRAIN VLV	RB	4	A-33	F-10	659'06"		C41	X															I	N	
No	0	C4100F016	SLC PUMPS TEST LINE ISO VLV	RB	4	A-33	F-10	671'00"		C41	X															I	N	
No	0	C4100F017	SLC TEST TANK RECIRCULATION VLV	RB	4	A-33	F-10	675'00"		C41	X															I	N	
No	0	C4100F020	SLC INBD TESTABLE CHECK VLV INBD TEST CONNECTION VLV	DW	1		175DEG			C41	X															I	N	
No	0	C4100F021	SLC PUMPS TEST LINE HI POINT VENT VLV	RB	4	A-33	F-10	674'06"		C41	X															I	N	
No	0	C4100F024	SLC PUMPS DISCH INBD DRAIN VLV	RB	2		C-11			C41	X															I	N	
No	0	C4100F025	SLC PUMP DISCH OUTBOARD DRAIN VLV	RB	2		C-11			C41	X															I	N	
No	0	C4100F026	SLC OUTBOARD TESTABLE CHECK VLV INBD TEST CONNECTION VLV	RB	2		C-11			C41	X															I	Y	
No	0	C4100F028	SLC C41N004 PXE & C41R003 PI SOURCE VLV	RB	4	A-33	F-10	671'00"		C41	X															I	N	
No	0	C4100F029A	SLC PUMP C4103C001A DISCH PRESS RELIEF VLV	RB	4	A-33	F-10	663'06"		C41	X															I	Y	
No	0	C4100F029B	SLC PUMP C4103C001B DISCH PRESS RELIEF VLV	RB	4	A-33	F-10	663'06"		C41	X															I	Y	
No	0	C4100F031	SLC TEST TANK TO PUMPS SUCTION ISO VLV	RB	4	A-33	E-10	659'06"		C41	X															I	N	
No	0	C4100F033A	SLC PUMP "A" DISCH CHECK VLV	RB	4	A-33	F-10	662'05"		C41	X															I	Y	
No	0	C4100F033B	SLC PUMP "B" DISCH CHECK VLV	RB	4	A-33	F-10	662'05"		C41	X															I	Y	
No	0	C4100F036	SLC PUMPS DISCH INBD VENT VLV	RB	2		C-12			C41	X															I	N	
No	0	C4100F050A	SLC PUMP "A" RELIEF VLV LINE DISCH VENT VLV	RB	4	A-33	E-10	659'06"		C41	X															I	N	
No	0	C4100F050B	SLC PUMP "B" RELIEF VLV LINE DISCH VENT VLV	RB	4	A-33	E-10	659'06"		C41	X															I	N	
No	20	C4100M002A	SLC CHNL "A" SQUIB FIRING CKT RLY	RB	2		F-17	613'06"		C41	X															I	Y	
No	20	C4100M002B	SLC CHNL "B" SQUIB FIRING CKT RLY	RB	2		F-17	613'06"		C41	X															I	Y	
No	20	C4100M004	SLC PUMP C4103C001A KEYLOCK SELECTOR SW	AB	3	B-23	F-15	643'06"		C41	X															I	N	
Yes	21	C4101A001	SLC STORAGE TANK	RB	4	A-33	E-10	659'06"		C41	X							Y	Y					Y		I	Y	
No	5	C4103C001A	SLC NORTH REACTOR PUMP	RB	4	A-33	F-10	659'06"		C41	X															I	Y	

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IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	8	B2103F022A	NB MSL "A" INBD PC ISO AOV	DW	1	A-15	2DEG	588'00"		X		X	X			X		N		Y	Y			Y	Y		I	Y	X1 MMR
No	DS	C4103C001A	SLC NORTH REACTOR PUMP	RB	4	A-33	F-10	659'06"		C41	X																I	Y	
No	0	C4103C001A	SLC NORTH REACTOR PUMP	RB	4	A-33	F-10	659'06"		C41	X																I	N	
No	5	C4103C001B	SLC SOUTH REACTOR PUMP	RB	4	A-33	F-10	659'06"		C41	X																I	Y	
No	DS	C4103C001B	SLC SOUTH REACTOR PUMP	RB	4	A-33	F-10	659'06"		C41	X																I	Y	
No	0	C4103C001B	SLC SOUTH REACTOR PUMP	RB	4	A-33	F-10	659'06"		C41	X																I	N	
No	8	C4104F004A	SLC EXPLOSIVE (SQUIB) VLV	RB	2		C-11	630'06"		C41	X																I	Y	
No	8	C4104F004B	SLC EXPLOSIVE (SQUIB) VLV	RB	2		C-11	630'06"		C41	X																I	Y	
No	8	C4104F004B	SLC EXPLOSIVE (SQUIB) VLV	RB	2		C-11	630'06"		C41	X																I	Y	
No	DS	C4140G008	SLC C41-2340- G08 SNUBBER	DW	1		160DEG	610'00"		C41	X																I	Y	
No	DS	C4140G011	SLC C41-2340- G11 SNUBBER	DW	1		180DEG	608'00"		C41	X																I	Y	
No	DS	C4140G012	SLC C41-2340- G12 SNUBBER	DW	1		180DEG	608'00"		C41	X																I	Y	
No	DS	C4140G015	SLC C41-2340- G15 SNUBBER	DW	2		150DEG	624'00"		C41	X																I	Y	
No	DS	C4140G016A	SLC C41-2340- G16 SNUBBER	DW	2		155DEG	620'00"		C41	X																I	Y	
No	DS	C4140G016B	SLC C41-2340- G16 SNUBBER	DW	2		155DEG	620'00"		C41	X																I	Y	
No	DS	C4140G017	SLC C41-2341- G17 SNUBBER	DW	2		165DEG	619'00"		C41	X																I	Y	
No	DS	C4179G001A	SLC C41-2979- G01 SNUBBER	RB	2		C-11	632'00"		C41	X																I	Y	
No	DS	C4179G001B	SLC C41-2979- G01 SNUBBER	RB	2		C-11	632'00"		C41	X																I	Y	
No	DS	C41L401	SLC PUMPS C4103C001A & C4103C001B DISCH PRESS TAP	RB	4		F-10	673'09"		C41	X																I	N	
No	20	C5100M003	APRM CHNLS 1, 2, 3 & 4 BYP SW	AB	3	B-23	F-15	613'06"			X						27421n										I	N	
No	18	C51K609	PWR RANGE PNL H11P608 QUAD LOW VOLTAGE E/S MODULE	AB	2	B-15	G-14	613'06"			X						27421n										I	N	
No	20	C51K610	APRM 2 MODULE	AB	2	B-15	G-14	613'06"			X						27421n										I	Y	
No	20	C51K611	LPRM 2 MODULE (SLAVE)	AB	2	B-15	G-14	613'06"			X						27421n										I	Y	
No	20	C51K612	PWR RANGE PNL H11P608 2/4 TRIP VOTER RPS TRIP SYS B1	AB	2	B-15	G-14	613'06"			X						27421n										I	Y	
No	18	C51K613	PWR RANGE PNL H11P608 QUAD LOW VOLTAGE E/S MODULE	AB	2	B-15	G-14	613'06"			X						27421n										I	Y	
No	20	C51K614	APRM 3 MODULE	AB	2	B-15	G-14	613'06"			X						27421n										I	Y	
No	20	C51K615	LPRM 3 MODULE (SLAVE)	AB	2	B-15	G-14	613'06"			X						27421n										I	Y	
No	20	C51K616	PWR RANGE PNL H11P608 2/4 TRIP VOTER RPS SYS A2	AB	2	B-15	G-14	613'06"			X						27421n										I	Y	
No	18	C51K617	PWR RANGE PNL H11P608 QUAD LOW VOLTAGE E/S MODULE	AB	2	B-15	G-14	613'06"			X						27421n										I	N	
No	20	C51K618	APRM 4 MODULE	AB	2	B-15	G-14	613'06"			X						27421n										I	Y	
No	20	C51K619	LPRM 4 MODULE (SLAVE)	AB	2	B-15	G-14	613'06"			X						27421n										I	Y	
No	20	C51K620	PWR RANGE PNL H11P608 2/4 TRIP VOTER RPS TRIP SYS B2	AB	2	B-15	G-14	613'06"			X						27421n										I	Y	
No	18	C51K621	PWR RANGE PNL H11P608 QUAD LOW VOLTAGE E/S MODULE	AB	2	B-15	G-14	613'06"			X						27421n										I	N	
No	18	C51K624	PWR RANGE PNL H11P608 QUAD LOW VOLTAGE E/S MODULE	AB	2	B-15	G-14	613'06"			X						27421n										I	N	
No	20	C51K625	APRM 1 MODULE	AB	2	B-15	G-14	613'06"			X						27421n										I	Y	

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No	20	C51K626	LPRM 1 MODULE (SLAVE)	AB	2	B-15	G-14	613'06"			X						27421n										I	Y	
No	20	C51K627	PWR RANGE PNL H11P608 2/4 TRIP VOTER RPS TRIP SYS A1	AB	2	B-15	G-14	613'06"			X						27421n										I	Y	
No	20	C51K800A	APRM2 STP DETECTION MODULATOR/ISO LVL SIG CND	RB	2		G-14	613'06"			X						27421n										I	Y	
No	20	C51K800B	APRM2 STP DETECTION MODULATOR/ISO LVL SIG CND	RB	2		G-14	613'06"			X						27421n										I	Y	
No	20	C51K800C	APRM3 STP DETECTION MODULATOR/ISO LVL SIG CND	RB	2		G-14	613'06"			X						27421n										I	Y	
No	20	C51K800D	APRM4 STP DETECTION MODULATOR/ISO LVL SIG CND	RB	2		G-14	613'06"			X						27421n										I	Y	
No	20	C51K800E	APRM1 STP DETECTION MODULATOR/ISO LVL SIG CND	RB	2		G-14	613'06"			X						27421n										I	Y	
No	20	C51K800F	APRM4 STP DETECTION MODULATOR/ISO LVL SIG CND	RB	2		G-14	613'06"			X						27421n										I	Y	
No	20	C51K802A	APRM/LPRM2 STP DETECTION MODULATOR/ISO LVL SIG CND	RB	2		G-14	613'06"			X						27421n										I	Y	
No	20	C51K802B	APRM3 STP DETECTION MODULATOR/ISO LVL SIG CND	RB	2		G-14	613'06"			X						27421n										I	Y	
No	20	C51K802C	APRM STP DETECTION MODULATOR/ISO LVL SIG CND	RB	2		G-14	613'06"			X						27421n										I	Y	
No	20	C51K802D	APRM/LPRM4 STP DETECTION MOD/ISO LVL SIG CND	RB	2		G-14	613'06"			X						27421n										I	N	
No	20	C51K806A	APRM/LPRM 3 STP DETECTOR LVL SIG CND	RB	2		G-14	613'06"			X						27421n										I	Y	
No	20	C51K806B	APRM/LPRM 1 STP DETECTOR LVL SIG CND	RB	2		G-14	613'06"			X						27421n										I	Y	
No	18	C71K609A	RPS TESTABILITY OPTION TO TRIP UNITS DIV1 CHNL A1 E/S	AB	4	B-24	F-12	659'06"		X	X																I	N	
No	18	C71K609B	RPS TESTABILITY OPTION TO TRIP UNITS DIV2 CHNL B1 E/S	AB	4	B-24	F-12	659'06"		X	X																I	N	
No	18	C71K609C	RPS TESTABILITY OPTION TO TRIP UNITS DIV1 CHNL A2 E/S	AB	4	B-24	F-11	659'06"		X	X																I	N	
No	18	C71K609D	RPS TESTABILITY OPTION TO TRIP UNITS DIV2 CHNL B2 E/S	AB	4	B-24	F-11	659'06"		X	X																I	N	
No	18	C71K610A	RPS TESTABILITY OPTION TO TRIP UNITS DIV1 CHNL A1 E/S	AB	4	B-24	F-12	659'06"		X	X																I	N	
No	18	C71K610B	RPS TESTABILITY OPTION TO TRIP UNITS DIV2 CHNL B1 E/S	AB	4	B-24	F-12	659'06"		X	X																I	N	
No	18	C71K610C	RPS TESTABILITY OPTION TO TRIP UNITS DIVSION 1 CHNL A2 E/S	AB	4	B-24	F-11	659'06"		X	X																I	N	
No	18	C71K610D	RPS TESTABILITY OPTION TO TRIP UNITS DIV2 CHNL B2 E/S	AB	4	B-24	F-11	659'06"		X	X																I	N	
No	18	C71N050A	RPS PC CHNL A1 DIV1 PRESS XMTR	RB	2		E-13	613'06"		X	X																I	Y	
No	18	C71N050B	RPS PC CHNL B1 DIV1 PRESS XMTR	RB	2		E-13	613'06"		X	X																I	Y	
No	18	C71N050C	RPS PC CHNL A2 DIV2 PRESS XMTR	RB	2		C-11	613'06"		X	X																I	Y	
No	18	C71N050D	RPS PC CHNL B2 DIV2 PRESS XMTR	RB	2		C-11	613'06"		X	X																I	Y	
No	20	C71N650A	RPS HI PC PRESS CHNL A1 DIV1 PRESS TRIP UNIT	AB	4		F-12	659'06"		X	X																I	Y	
No	20	C71N650B	RPS HI PC PRESS CHNL B1 DIV1 PRESS TRIP UNIT	AB	4		F-12	659'06"		X	X																I	Y	
No	20	C71N650C	RPS HI PC PRESS CHNL A2 DIV2 PRESS TRIP UNIT	AB	4		F-11	659'06"		X	X																I	Y	
No	20	C71N650D	RPS HI PC PRESS CHNL B2 DIV2 PRESS TRIP UNIT	AB	4		F-11	659'06"		X	X																I	Y	
No	20	C71N651	RPS DIV1 PC CHNL A1 HI PRESS SLAVE TRIP UNIT	AB	4		F-12	659'06"		X	X																I	Y	
No	20	C71N653	RPS DIV1 PC CHNL A1 LOW PRESS SLAVE TRIP UNIT	AB	4		F-12	659'06"		X	X																I	Y	
No	20	D11K603A	PRM MAIN STM LINE RAD MONITOR ELEC	AB	2		G-11	613'06"									36495n										I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	20	D11K603B	PRM MAIN STM LINE RAD MONITOR ELEC	AB	2		G-11	613'06"									36495n										I	Y	
No	20	D11K603C	PRM MAIN STM LINE RAD MONITOR ELEC	AB	2		G-11	613'06"									36495n										I	Y	
No	20	D11K603D	PRM MAIN STM LINE RAD MONITOR ELEC	AB	2		G-11	613'06"									36495n										I	Y	
No	DS	E1100D001A	RHR SYS SUCT STRAINER FOR PUMP E1102C002A	RB	SB	A-01	230DEG	547'00"					X	X			29024n										I	N	
No	DS	E1100D001B	RHR SYS SUCT STRAINER FOR PUMP E1102C002B	RB	SB	A-01	130DEG	547'00"					X	X			29024n										I	N	
No	DS	E1100D001C	RHR SYS SUCT STRAINER FOR PUMP E1102C002C	RB	SB	A-01	225DEG	547'00"					X	X			29024n										I	N	
No	DS	E1100D001D	RHR SYS SUCT STRAINER FOR PUMP E1100C002D	RB	SB	A-01	135DEG	547'00"					X	X			29024n										I	N	
No	0	E1100F001A	RHR DIV1 HX "A" THERMAL RELIEF VLV	RB	2	A-22N	B-17	629'06"		X			X	X													I	Y	
No	0	E1100F001B	RHR DIV2 HEAT EXCHANGER "B" THERMAL RELIEF VLV	RB	2	A-22S	B-9	629'06"		X			X	X													I	Y	
No	0	E1100F025A	RHR DIV1 HX E1101B001A DISCHARGE HEADER THERMAL RELIEF VLV	RB	B	A-01	245DEG	576'00"		X			X	X													I	Y	
No	0	E1100F025B	RHR DIV2 HX E1101B001B DISCHARGE HEADER THERMAL RELIEF VLV	RB	B	A-01	135DEG	576'11"		X			X	X													I	Y	
No	0	E1100F029	RHR S/D COOLING RELIEF VLV	RB	B		B-13	579'00"		X			X	X													I	Y	
No	0	E1100F030A	RHR DIV1 PUMP "A" SUPR POOL SUCT LINE THERMAL RELIEF VLV	RB	SB	A-01	C-15	545'03"		X			X	X													I	Y	
No	0	E1100F030B	RHR DIV2 PUMP "B" SUPR POOL SUCT LINE THERMAL RELIEF VLV	RB	SB		C-10	547'00"		X			X	X													I	Y	
No	0	E1100F030C	RHR DIV1 PUMP "C" SUPR POOL SUCT LINE THERMAL RELIEF VLV	RB	SB		C-13	546'00"		X			X	X													I	Y	
No	0	E1100F030D	RHR DIV2 PUMP "D" SUPR POOL SUCT LINE THERMAL RELIEF VLV	RB	SB		B-11	546'00"		X			X	X													I	Y	
No	0	E1100F050A	RHR DIV1 INBD ISO TESTABLE CHECK AOV	DW	1		270DEG	599'06"		X			X	X													I	Y	
No	0	E1100F050B	RHR DIV2 INBD ISO TESTABLE CHECK AOV	DW	1		104DEG	599'06"		X			X	X													I	Y	
No	0	E1100F056A	RHR DIV1 HEAT EXCHANGER "A" TO DRW THERMAL RELIEF VLV	RB	1	A-12	B-17	608'00"		X			X	X													I	N	
No	0	E1100F056B	RHR DIV2 HEAT EXCHANGER "B" TO DIRTY RW THERMAL RELIEF VLV	RB	1	A-12	B-9	608'00"		X			X	X													I	N	
No	0	E1100F060A	RHR DIVISON 1 LPCI INBD CNTM RETURN VLV	DW	1		270DEG	600'00"		X			X	X													I	N	
No	0	E1100F060B	RHR DIV2 LPCI INBD CNTM RETURN VLV ISO VLV	DW	1		90DEG	600'00"		X			X	X													I	N	
No	0	E1100F078	RHR REACTOR VESSEL EMERG INJECTION LINE CHECK AOV	RB	1	A-13	B-9	601'06"		X			X	X													I	Y	
No	0	E1100F184	RHR DIV1 DEMINERALIZED WATER SPLY HEADER CHECK VLV	RB	B		A-13	575'00"					X	X			30530y										I	Y	
No	0	E1100F185	RHR DIV1 DEMINERALIZED WATER SPLY HEADER CHECK VLV	RB	B	A-01	A-13	575'00"					X	X			30530y										I	Y	
No	20	E1100M084A	RHR K84A RELAY	AB				613'06"					X	X			28998n										I	Y	
No	20	E1100M084B	RHR K84B RELAY	AB				613'06"					X	X			28998n										I	Y	
Yes	21	E1101B001A	RHR N HEAT "A" EXCHANGER	RB	2	A-22N	B-17	603'06"		X			X	X				Y		Y				Y		I	Y	
Yes	21	E1101B001B	RHR S HEAT "B" EXCHANGER	RB	2	A-22S	B-9	503'06"					X	X				Y		Y				Y		I	Y	
Yes	6	E1102C002A	RHR "A" PUMP	RB	SB	A-03	B-17	540'00"		X			X	X			34844y	Y		Y				Y		I	Y	
Yes	6	E1102C002A	RHR "A" PUMP	RB	SB	A-03	B-17	540'00"					X	X			34844y	Y		Y				Y		I	Y	
No	DS	E1102C002A	RHR "A" PUMP	RB	SB	A-03	B-17	540'00"					X	X			34844n										I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	DS	E1102C002A	RHR "A" PUMP	RB	SB	A-03	B-17	540'00"					X	X			34844n										I	Y	
No	DS	E1102C002A	RHR "A" PUMP	RB	SB	A-03	B-17	540'00"					X	X			34844n										I	Y	
Yes	6	E1102C002B	RHR "B" PUMP.	RB	SB	A-02	B-10	540'00"		X			X	X			29824y	Y		Y					Y		I	Y	
Yes	21	E1102C002B	RHR "B" PUMP.	RB	SB	A-02	B-10	540'00"					X	X				Y		Y					Y		I	Y	
Yes	6	E1102C002B	RHR "B" PUMP.	RB	SB	A-02	B-10	540'00"					X	X				Y		Y					Y		I	Y	
Yes	6	E1102C002C	RHR "C" PUMP	RB	SB	A-03	A-15	540'00"		X			X	X			30397y	Y		Y					Y		I	Y	
Yes	21	E1102C002C	RHR "C" PUMP	RB	SB	A-03	A-15	540'00"					X	X				Y		Y					Y		I	Y	
Yes	6	E1102C002C	RHR "C" PUMP	RB	SB	A-03	A-15	540'00"					X	X				Y		Y					Y		I	Y	
No	6	E1102C002D	RHR "D" PUMP	RB	SB	A-02	B-9	540'00"		X			X	X													I	Y	
Yes	21	E1102C002D	RHR "D" PUMP	RB	SB	A-02	B-9	540'00"					X	X				Y		Y					Y		I	Y	
Yes	6	E1102C002D	RHR "D" PUMP	RB	SB	A-02	B-9	540'00"					X	X				Y		Y					Y		I	Y	
No	8	E1150F004A	RHR DIV1 PUMP "A" SUPR POOL SUCT ISO MOV	RB	SB	A-01	C-15	543'00"		X			X	X													I	Y	
No	8	E1150F004B	RHR DIV2 PUMP "B" SUPR POOL SUCT ISO MOV	RB	SB	A-01	C-10	543'00"		X			X	X													I	Y	
No	8	E1150F004D	RHR DIV2 PUMP "D" SUPR POOL SUCT ISO MOV	RB	SB	A-01	B-11	542'04"		X			X	X													I	Y	
No	8	E1150F006A	RHR DIV1 PUMP "A" S/D COOLING ISO MOV	RB	SB	A-12	C-17	546'00"		X			X	X													I	Y	
No	8	E1150F006B	RHR DIV2 PUMP "B" S/D COOLING ISO MOV	RB	SB	A-01	C-9	546'00"		X			X	X													I	Y	
No	8	E1150F006C	RHR DIV1 PUMP "C" S/D COOLING ISO MOV	RB	SB		B-13	546'00"		X			X	X													I	Y	
No	8	E1150F006D	RHR DIV2 PUMP "D" S/D COOLING ISO MOV	RB	SB	A-01	A-11	546'00"		X			X	X													I	Y	
No	8	E1150F007A	RHR DIV1 PUMPS "A" & "C" MIN FLOW MOV	RB	B	A-12	C-13	578'06"		X			X	X													I	Y	
No	8	E1150F007B	RHR DIV2 PUMPS "B" & "D" MIN FLOW MOV	RB	B	A-01	B-11	578'06"		X			X	X													I	Y	
No	8	E1150F009	RHR DIV1 & 2 S/D COOLING INBD CNTM ISO MOV	DW	1		163DEG	600'00"		X			X	X													I	Y	
No	8	E1150F017A	RHR DIV1 LPCI MOV	RB	B	A-01	B-13	578'05"		X			X	X													I	Y	
No	8	E1150F017B	RHR DIV2 LPCI MOV	RB	B	A-01	B-12	578'05"		X			X	X													I	Y	
Yes	8	E1150F024A	RHR DIV1 CNTM COOLING/TEST ISO MOV	RB	B	A-12	B-13	578'07"		X			X	X			34040n	Y	Y						Y		I	Y	
Yes	8	E1150F024A	RHR DIV1 CNTM COOLING/TEST ISO MOV	RB	B	A-12	B-13	578'07"					X	X			35401y	Y	Y						Y		I	Y	
No	8	E1150F024B	RHR DIV2 CNTM COOLING/TEST ISO MOV	RB	B	A-12	B-11	578'07"		X			X	X													I	Y	
No	8	E1150F028A	RHR DIV1 SUPR POOL CNTM SPRAY TEST ISO MOV	RB	B	A-01	B-13	578'07"		X			X	X													I	Y	
No	8	E1150F028B	RHR DIV2 SUPR POOL CNTM SPRAY/TEST ISO MOV	RB	B	A-01	B-11	578'07"		X			X	X													I	Y	
No	8	E1150F048A	RHR DIV1 HX "A" BYPASS MOV	RB	1		C-17	590'00"		X			X	X													I	Y	
No	8	E1150F048B	RHR DIV2 HX "B" BYPASS MOV	RB	1	A-12	C-9	605'11"		X			X	X													I	Y	
No	8	E1150F068B	RHR DIV2 HX "B" SERVICE WATER OUTLET ISO MOV	RB	2	A-22S	B-10	617'03"		X			X	X													I	Y	
No	8	E1150F608	RHR S/D COOLING INBD INLET ISO BYPASS MOV	DW	1		153DEG	608'00"		X			X	X													I	Y	
No	0	E1150F611A	RHR DIV1 LPCI MODE BYPASS MOV	RB	B		A-13			X			X	X													I	Y	
No	0	E1150F611B	RHR DIV2 LPCI MODE BYPASS MOV	RB	B		B-11			X			X	X													I	Y	
No	6	E1151C001A	RHRSW SOUTH PUMP ROOM NORTH SERVICE WATER "A" PUMP	RHR	1		F-7	590'00"					X	X													I	Y	
No	6	E1151C001B	RHRSW NORTH PUMP ROOM NORTH SERVICE WATER "B" PUMP	RHR	1		F-9	590'00"					X	X													I	Y	
No	6	E1151C001D	RHRSW NORTH PUMP ROOM SOUTH SERVICE WATER "D" PUMP	RHR	1		E-11	590'00"					X	X													I	Y	
No	DS	E1155D003	RHR BYPASS LINE RESTRICTING ORIFICE PLATE DIV1	RHR	1		F-4	591'03"					X	X			29475n										I	N	
No	DS	E1155D004	RHR BYPASS LINE RESTRICTING ORIFICE PLATE DIV2	RHR	1		F-10	591'03"					X	X			29475n										I	N	
Yes	9	E1156C001A	RHR SE MDCT FAN	RHR	2		D-3	617'00"		X			X	X			35509y	Y		Y					Y		I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
Yes	9	E1156C001B	RHR NE MDCT FAN	RHR	2		D-11	617'00"		X			X	X			35509y	Y		Y					Y		I	Y	
Yes	9	E1156C001D	RHR NW MDCT FAN	RHR	2		B-11	617'00"		X			X	X			35509y	Y		Y					Y		I	Y	
No	0	E1156F603A	RHR N2 SUPPLY TO MDCT FAN E1156C001A BLEEDER VALVE	RHR	RF		D-4	622'00"					X	X			35509n										I	N	
No	0	E1156F603B	RHR N2 SUPPLY TO MDCT FAN E1156C001B BLEEDER VALVE	RHR	RF		D-10	622'00"					X	X			35509n										I	N	
No	0	E1156F603C	RHR N2 SUPPLY TO MDCT FAN E1156C001C BLEEDER VALVE	RHR	RF		B-4	622'00"					X	X			35509n										I	N	
No	0	E1156F603D	RHR N2 SUPPLY TO MDCT FAN E1156C001D BLEEDER VALVE	RHR	RF		B-10	622'00"					X	X			35509n										I	N	
No	0	E1156F604A	RHR N2 SUPPLY PCV E11F422A DIAPHRAGM VALVE	RHR	RF		D-4	622'00"					X	X			35509n										I	N	
No	0	E1156F604B	RHR N2 SUPPLY PCV E11F422B DIAPHRAGM VALVE	RHR	RF		D-10	622'00"					X	X			35509n										I	N	
No	0	E1156F604C	RHR N2 SUPPLY PCV E11F422C DIAPHRAGM VALVE	RHR	RF		B-4	622'00"					X	X			35509n										I	N	
No	0	E1156F604D	RHR N2 SUPPLY PCV E11F422D DIAPHRAGM VALVE	RHR	RF		B-10	622'00"					X	X			35509n										I	N	
No	DS	E1156G001A	RHR MDCT FAN BRAKE SYSTEM N2 2000 PSIG TANK OUTLET FLEX HOSE	RHR	RF		D-4	622'00"					X	X			35509n										I	N	
No	DS	E1156G001B	RHR MDCT FAN BRAKE SYSTEM N2 2000 PSIG TANK OUTLET FLEX HOSE	RHR	RF		D-10	622'00"					X	X			35509n										I	N	
No	DS	E1156G001C	RHR MDCT FAN BRAKE SYSTEM N2 2000 PSIG TANK OUTLET FLEX HOSE	RHR	RF		B-4	622'00"					X	X			35509n										I	N	
No	DS	E1156G001D	RHR MDCT FAN BRAKE SYSTEM N2 2000 PSIG TANK OUTLET FLEX HOSE	RHR	RF		B-10	622'00"					X	X			35509n										I	N	
No	DS	E1156G002A	RHR MDCT FAN BRAKE SYSTEM N2 100 PSIG TANK OUTLET FLEX HOSE	RHR	RF		D-4	622'00"					X	X			35509n										I	N	
No	DS	E1156G002B	RHR MDCT FAN BRAKE SYSTEM N2 100 PSIG TANK OUTLET FLEX HOSE	RHR	RF		D-10	622'00"					X	X			35509n										I	N	
No	DS	E1156G002C	RHR MDCT FAN BRAKE SYSTEM N2 100 PSIG TANK OUTLET FLEX HOSE	RHR	RF		B-4	622'00"					X	X			35509n										I	N	
No	DS	E1156G002D	RHR MDCT FAN BRAKE SYSTEM N2 100 PSIG TANK OUTLET FLEX HOSE	RHR	RF		B-10	622'00"					X	X			35509n										I	N	
No	DS	E1156G003A	RHR MDCT FAN BRAKE SYSTEM N2 42.5 PSIG TANK OUTLET FLEX HOSE	RHR	RF		D-4	622'00"					X	X			35509n										I	N	
No	DS	E1156G003B	RHR MDCT FAN BRAKE SYSTEM N2 42.5 PSIG TANK OUTLET FLEX HOSE	RHR	RF		D-10	622'00"					X	X			35509n										I	N	
No	DS	E1156G003C	RHR MDCT FAN BRAKE SYSTEM N2 42.5 PSIG TANK OUTLET FLEX HOSE	RHR	RF		B-4	622'00"					X	X			35509n										I	N	
No	DS	E1156G003D	RHR MDCT FAN BRAKE SYSTEM N2 42.5 PSIG TANK OUTLET FLEX HOSE	RHR	RF		B-10	622'00"					X	X			35509n										I	N	
No	8	E11F412	RHR - PC MONITORING DIV2 SOLENOID VLV	RB	2		C-12	613'06"		X			X	X													I	Y	
No	8	E11F413	RHR - PC MONITORING DIV2 V5-2547 SOLENOID VLV	RB	2		C-12	613'06"		X			X	X													I	Y	
No	8	E11F414	RHR - PC MONITORING DIV1 V5-2548 SOLENOID VLV	RB	2		E-13	628'05"		X			X	X													I	Y	
No	8	E11F415	RHR - PC MONITORING DIV1 V5-2549 SOLENOID VLV	RB	2		E-13	628'05"		X			X	X													I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	0	E11F421A	RHR 100 # BOTTLE N2 SPLY TO RHR MDCT FAN E1156C001A O/S BRAKE PRESS CTRL VLV	RHR	RF		D-4	622'00"					X	X			35509n										I	N	
No	0	E11F421B	RHR 100 # BOTTLE N2 SPLY TO RHR MDCT FAN E1156C001B O/S BRAKE PRESS CTRL VLV	RHR	RF		D-10	622'00"					X	X			35509n										I	N	
No	0	E11F421C	RHR MDCT DIV1 FAN E1156C001C O/S BRAKE PROT 100# BOTTLE N2 SPLY PRESS CTRL VLV	RHR	RF		B-4	622'00"					X	X			35509n										I	N	
No	0	E11F421D	RHR MDCT DIV2 FAN E1156C001D O/S BRAKE PROT 100# BOTTLE N2 SPLY PRESS CTRL VLV	RHR	RF		B-10	622'00"					X	X			35509n										I	N	
No	0	E11F422A	RHR 2000 # BOTTLE N2 SPLY TO RHR MDCT FAN E1156C001A O/S BRAKE PRESS CTRL VLV	RHR	RF		D-4	622'00"					X	X			35509n										I	N	
No	0	E11F422B	RHR 2000 # BOTTLE N2 SPLY TO RHR MDCT FAN E1156C001B O/S BRAKE PRESS CTRL VLV	RHR	RF		D-10	622'00"					X	X			35509n										I	N	
No	0	E11F422C	RHR MDCT DIV1 E1156C001C O/S BRAKE PROT 2000# BOTTLE N2 SPLY P CTRL VLV	RHR	RF		B-4	622'00"					X	X			35509n										I	N	
No	0	E11F422D	RHR MDCT DIV2 E1156C001D O/S BRAKE PROT 2000# BOTTLE N2 SPLY P CTRL VLV	RHR	RF		B-10	622'00"					X	X			35509n										I	N	
No	8	E11F610A	RHR STM WARM-UP BYPASS VLV V13-7687 DIV1 SOLENOID VLV	DW	1		270DEG	599'06"		X			X	X													I	Y	
No	8	E11F610B	RHR STM WARM-UP BYPASS VLV V13-7688 DIV2 SOLENOID VLV	DW	1		100DEG	599'06"		X			X	X													I	Y	
No	20	E11K600A	RHR FLOW "A" SQUARE ROOT CONVERTER FLOW SIG CND	AB	2		F-16	613'06"		X			X	X													I	Y	
No	20	E11K600B	RHR FLOW "B" SQUARE ROOT CONVERTER FLOW SIG CND	AB	2		F-14	613'06"		X			X	X													I	Y	
No	18	E11K603A	RHR "A" PWR SPLY	AB	2	B-15	F-16	613'06"		X			X	X													I	Y	
No	18	E11K603B	RHR "B" PWR SPLY	AB	2	B-15	F-14	613'06"		X			X	X													I	N	
No	20	E11K817A	RHR FLOW LOOP "A" MODULATOR FLOW SIG CND	RB	2		F-16	613'06"		X			X	X													I	Y	
No	20	E11K817B	RHR FLOW LOOP "B" MODULATOR FLOW SIG CND	AB	2		F-14	613'06"		X			X	X													I	N	
No	20	E11K826A	RHR HX SERVICE WATER FLOW "A" ISOLATOR FLOW SIG CND	AB	2		F-16	613'06"		X			X	X													I	N	
No	20	E11K826B	RHR HX SERVICE WATER FLOW "B" ISOLATOR FLOW SIG CND	AB	2		F-14	613'06"		X			X	X													I	N	
No	18	E11N007A	RHRSW DIV1 "A" ELEC FLOW TRANSMITTER	RB	B	A-07	B-15	562'00"		X			X	X													I	N	
No	0	E11N007B	RHRSW DIV2 "B" ELEC FLOW TRANSMITTER	RB	B	A-06	B-10	562'00"	X	X			X	X													I	N	
No	18	E11N015A	RHR DIV1 PUMPS DISCHARGE TO RPV ELEC FLOW TRANSMITTER	RB	B	A-07	B-15	562'00"		X			X	X													I	Y	
No	18	E11N015B	RHR DIV2 PUMPS DISCHARGE TO RPV ELEC FLOW TRANSMITTER	RB	B	A-06	B-10	562'00"		X			X	X													I	Y	
No	20	E11N021A	RHR DIV1 PUMP C002A DISCHARGE MIN FLOW LINE VLV (F007A) FLOW SW	RB	B	A-07	B-15	562'00"					X	X			27275n										I	N	
No	20	E11N021B	RHR DIV2 PUMP C002B DISCHARGE MIN FLOW LINE VLV (F007B) FLOW SW	RB	B	A-06	B-10	562'00"					X	X			27329n										I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	E11N055A	RHR PUMP A DISCHARGE PRESS PERMISSIVE AUTO BLOWDOWN DIV1 PXE	RB	B	A-07	B-15	562'00"		X			X	X													I	Y	
No	18	E11N055B	RHR PUMP B DISCHARGE PRESS PERMISSIVE AUTO BLOWDOWN DIV2 PXE	RB	B	A-06	B-10	562'00"		X			X	X													I	Y	
No	18	E11N055C	RHR PUMP C DISCHARGE PRESS PERMISSIVE AUTO BLOWDOWN DIV1 PXE	RB	B	A-07	B-15	562'00"		X			X	X													I	Y	
No	18	E11N055D	RHR PUMP D DISCHARGE PRESS PERMISSIVE AUTO BLOWDOWN DIV2 PXE	RB	B	A-06	B-10	562'00"		X			X	X													I	Y	
No	20	E11N655A	RHR DIV1 PUMP A PERMISSIVE TO AUTOMATIC DEPRESSURIZATION TRIP UNIT	AB	4		F-12	659'06"		X			X	X													I	Y	
No	20	E11N655B	RHR PUMP B BLOWDOWN PRESS TRIP DIV2 MISC SIG CND	AB	4		F-11	659'06"		X			X	X													I	Y	
No	20	E11N655C	RHR PUMP C BLOWDOWN PRESS TRIP DIV1 MISC SIG CND	AB	4		F-12	659'06"		X			X	X													I	Y	
No	20	E11N655D	RHR PUMP D BLOWDOWN PRESS TRIP DIV2 MISC SIG CND	AB	4		F-11	659'06"		X			X	X													I	Y	
No	18	E11P400A	RHR COMPLEX SERVICE WATER FAN BRAKE RELAY CABINET DIV1 INSTRUMENT RACK	RHR	1		E-4	590'00"		X			X	X													I	N	
No	18	E11P400B	RHR COMPLEX SERVICE WATER FAN BREAK RELAY CABINET DIV2 INSTRUMENT RACK	RHR	1		E-11	590'00"		X			X	X													I	N	
No	20	E11R003A	RHR PUMP E1102C002A DISCHARGE PRESS INDICATOR	RB	B	A-07	B-15	562'00"		X			X	X													I	Y	
No	20	E11R003B	RHR PUMP E1102C002B DISCHARGE PRESS INDICATOR	RB	B	A-06	B-10	562'00"		X			X	X													I	Y	
No	20	E11R003C	RHR PUMP E1102C002C DISCHARGE PRESS INDICATOR	RB	B	A-07	B-15	562'00"		X			X	X													I	Y	
No	20	E11R003D	RHR PUMP E1102C002D DISCHARGE PRESS INDICATOR	RB	B	A-06	B-10	562'00"		X			X	X													I	Y	
No	DS	E2100D001A	CS SYS SUCT STRAINER FOR PUMPS E2100C001A AND E2101C001C	RB	SB	A-01	315DEG	547'00"					X				29024n										I	N	
No	DS	E2100D001B	CS SYS SUCT STRAINER FOR PUMPS E2101C001B AND E2101C001D	RB	SB	A-01	45DEG	547'00"					X				29024n										I	N	
Yes	5	E2101C001A	CS DIV1 "A" PUMP	RB	SB	A-05	G-15	540'00"					X				34311y	Y		Y				Y		I	Y	
Yes	5	E2101C001A	CS DIV1 "A" PUMP	RB	SB	A-05	G-15	540'00"					X					Y		Y				Y		I	Y	
Yes	5	E2101C001B	CS DIV2 "B" PUMP	RB	SB	A-04	H-10	540'00"					X				34311y	Y		Y				Y		I	Y	
Yes	5	E2101C001B	CS DIV2 "B" PUMP	RB	SB	A-04	H-10	540'00"					X					Y		Y				Y		I	Y	
Yes	5	E2101C001C	CS DIV1 "C" PUMP	RB	SB	A-05	G-15	540'00"					X				34311y	Y		Y				Y		I	Y	
Yes	5	E2101C001D	CS DIV2 "D" PUMP	RB	SB	A-04	G-9	540'00"					X				34311y	Y		Y				Y		I	Y	
Yes	5	E2101C001D	CS DIV2 "D" PUMP	RB	SB	A-04	G-9	540'00"					X					Y		Y				Y		I	Y	
No	8	E2150F031B	CS DIV2 MIN FLOW/RECIRC ISO MOV	RB	B	A-09	G-10	566'00"		X			X													I	Y	
No	18	E21K601A	CS DC & AC INVERTER PWR SPLY	AB	2		G-16	613'06"		X			X													I	N	
No	18	E21K601B	CS DC & AC INVERTER PWR SPLY	AB	2	B-15	G-14	613'06"		X			X													I	N	
No	21	E4100B001	HPCI BARO CNDR	AB	SB		H-10	540'00"		X			X													I	N	
Yes	21	E4100B001	HPCI BARO CNDR	AB	SB		H-10	540'00"					X					Y		Y				Y		I	N	
No	21	E4100B002	HPCI TURB LUBE OIL COOLER	RB	SB		H-9			X			X													I	N	
No	0	E4100F016	HPCI MAIN PUMP DISCHARGE KEEP FILL ISO VLV										X				29446n									I	Y	
No	0	E4100F020	HPCI BOOSTER PMP INLET PRESS RELIEF VLV	RB	SB		G-10	544'07"		X			X													I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
Yes	7	E4100F026	HPCI BARO CNDR CONDENSATE OUTLET TO FD INBD ISO AOV	AB	SB	B-01	G-10	541'07"		X								Y		Y					Y		I	Y	
Yes	7	E4100F026	HPCI BARO CNDR CONDENSATE OUTLET TO FD INBD ISO AOV	AB	SB	B-01	G-10	541'07"										Y		Y					Y		I	Y	
Yes	7	E4100F027	HPCI TURB SPLY DRAIN POT STM TRAP TO MAIN CNDR DRAIN LINE VLV	RB	SB		H-11	542'06"										Y		Y					Y		I	Y	
Yes	7	E4100F028	HPCI TURB SPLY DRAIN POT TO MAIN CNDR DRAIN LINE ISO AOV	AB	SB	B-01	G-10	542'00"		X								Y		Y					Y		I	Y	
Yes	7	E4100F028	HPCI TURB SPLY DRAIN POT TO MAIN CNDR DRAIN LINE ISO AOV	AB	SB	B-01	G-10	542'00"										Y		Y					Y		I	Y	
Yes	7	E4100F029	HPCI TURB SPLY DRAIN POT TO MAIN CNDR DRAIN LINE ISO AOV	AB	SB	B-01	G-10	542'00"										Y		Y					Y		I	Y	
Yes	7	E4100F029	HPCI TURB SPLY DRAIN POT TO MAIN CNDR DRAIN LINE ISO AOV	AB	SB	B-01	G-10	542'00"										Y		Y					Y		I	Y	
No	0	E4100F050	HPCI LUBE OIL COOLER INLET PRESS RELIEF VLV	RB	SB		H-11	546'00"		X			X														I	Y	
Yes	7	E4100F053	HPCI TURB EXHAUST DRAIN POT CONDENSATE DRAIN AOV	RB	SB	B-01	H-9	542'00"		X								Y		Y					Y		I	Y	
Yes	7	E4100F053	HPCI TURB EXHAUST DRAIN POT CONDENSATE DRAIN AOV	RB	SB	B-01	H-9	542'00"										Y		Y					Y		I	Y	
Yes	7	E4100F054	HPCI TURB STM LINE DRAIN POT STM TRAP BYPASS AOV	AB	SB	B-01	G-10	542'00"										Y		Y					Y		I	Y	
Yes	7	E4100F054	HPCI TURB STM LINE DRAIN POT STM TRAP BYPASS AOV	AB	SB	B-01	G-10	542'00"										Y		Y					Y		I	Y	
No	DS	E4100F067	HPCI TURB STM ISO VLV (H.O.)	AB	SB	B-01	H-10			X			X														I	Y	
No	DS	E4100F068	HPCI TURB STM CTRL VLV (H.O.)	AB	SB	B-01	H-10			X			X														I	Y	
No	0	E4100F218	HPCI KEEP FILL INBD TEST CONNECTION VLV	RB	SB		G-11	546'00"					X				29446n										I	N	
No	0	E4100F220	HPCI KEEP FILL OTBD CHECK VLV	RB	SB		G-11	546'00"					X				29446n										I	N	
No	0	E4100F221	HPCI KEEP FILL INBD CHECK VLV	RB	SB		G-11	546'00"					X				29446n										I	N	
No	0	E4100F225	HPCI KEEP FILL OTBD TEST CONNECTION VLV	RB	SB		G-11	546'00"					X				29446n										I	N	
No	DS	E4101C001A	HPCI MAIN PUMP	RB				540'00"		X			X														I	Y	
Yes	5	E4101C001A	HPCI MAIN PUMP	RB				540'00"					X					Y		Y					Y		I	Y	
No	DS	E4101C001B	HPCI BOOSTER PUMP	RB	SB		H-9	545'00"		X			X														I	Y	
No	DS	E4101C001D	HPCI PUMP GEAR REDUCER	RB	SB		H-10	545'00"		X			X														I	N	
No	DS	E4101C002	HIGH PRESSURE COOLANT INJECTION TURBINE	RB	SB	B-01	H-9	545'00"		X			X														I	Y	
No	5	E4101C003	HPCI BAROMETRIC CONDENSER VACUUM PUMP	AB	SB		H-9	540'00"		X			X														I	Y	
No	6	E4101C004	HPCI BAROMETRIC CONDENSER CONDENSATE PUMP	AB	SB		H-9	540'00"		X			X														I	Y	
No	5	E4101C005	HPCI AUX OIL PUMP	RB	SB		H-9	543'00"		X			X														I	Y	
No	8	E4150F001	HPCI TURB STM SPLY ISO MOV	AB	SB	B-01	H-10	549'09"					X				35380n										I	Y	
Yes	8	E4150F003	HPCI TURB STM SPLY OTBD CNTM ISO MOV	RB	1	A-16	F-12	586'06"		X			X				33410n	N		Y					Y		I	Y	
No	8	E4150F006	HPCI MAIN PUMP OUTLET TO FW ISO MOV	RB	1	A-16	G-12	587'03"					X				33410n										I	Y	
No	8	E4150F012	HPCI MAIN PUMP E4101C001A MIN FLOW TO SUPR CHAMBER ISO MOV	AB	SB	B-01	G-10	555'06"		X			X														I	Y	
No	8	E4150F021	HPCI TURB EXHAUST STOP GLOBE MOV	AB	B		G-11	564'07"					X				35380n										I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
Yes	8	E4150F041	HPCI BOOSTER PUMP SUCT FROM SUPR POOL ISO MOV	AB	SB	B-01	G-11	541'11"		X			X				29317y	Y		Y					Y		I	Y	
Yes	8	E4150F042	HPCI BOOSTER PUMP SUCT FROM SUPR POOL ISO MOV	RB	SB	A-01	G-12	541'11"		X			X				29316y	Y		Y					Y		I	Y	
No	8	E4150F059	HPCI LUBE OIL COOLING WATER SPLY ISO MOV	AB	SB	B-01	G-10	542'00"		X			X														I	Y	
No	8	E41F025	HPCI PUMP TO CRW DIV1 V8-2213 SOLENOID VLV	RB	SB		H-10	544'00"		X			X														I	Y	
No	8	E41F026	HPCI PUMP TO CRW DIV2 V8-2214 SOLENOID VLV	RB	SB		H-11	544'00"		X			X														I	N	
No	8	E41F035	HPCI COOLING WATER TO TURBINE LUBE OIL COOLER E4100B002 PRESSURE CONTROL VLV	RB	SB	B-01	G-9	541'03"		X			X														I	Y	
No	8	E41F053	HPCI TURB EXHAUST TO CNDR DIV2 V8-2212 SOLENOID VLV	RB	SB		H-11	544'00"		X			X														I	Y	
No	8	E41F200	HPCI REMOTE TURB TRIP SOLENOID VLV	RB	SB		H-10	545'00"		X			X														I	Y	
No	8	E41F428	HPCI TURB STM DRAIN POT TO MAIN CNDR DIV1 V17-2024 SOLENOID VLV	AB	SB		H-10	544'00"		X			X														I	Y	
No	8	E41F429	HPCI TURB STM DRAIN POT TO MAIN CNDR DIV2 V17-2025 SOLENOID VLV	AB	SB		H-11	544'00"		X			X														I	Y	
No	8	E41F454	HPCI TURB STM DRAIN POT BYPASS AROUND NOTCHED DISCH SOLENOID VLV DIV2	AB	SB		H-11	544'00"		X			X														I	Y	
No	18	E41K200	HPCI TURB GOVERNOR (EG-M) SPD CTRLR	AB	2	B-15	GG-13	613'06"		X			X														I	N	
No	18	E41K201	HPCI TURB SPD MILLIVOLT TO CURRENT CONVERTER	AB	2	B-15	GG-13	613'06"		X			X														I	Y	
No	18	E41K202	HPCI TURB SPD SETTING POTENTIOMETER SPD SIG CND	AB	2	B-15	GG-13	613'06"		X			X														I	N	
No	18	E41K203	HPCI TURB SPD ELEC TO HYDRAULIC CONVERTER SPD SIG CND	AB	SB	B-01	H-10	541'00"		X			X														I	N	
No	18	E41K204	HPCI TURB GOVERNOR H11P929 RESISTOR BOX	AB	2		G-13	613'06"		X			X														I	N	
No	18	E41K401	HPCI DIV2 TORUS WATER LVL NARROW RNG MODULATOR SIG CND	AB	4		F-11	659'06"		X			X														I	Y	
No	18	E41K403	HPCI DIV2 TORUS WATER LVL NARROW RNG MODULATOR SIG CND	AB	4		F-11	659'06"		X			X														I	Y	
No	18	E41K409	HPCI TURB SPD DEMAND MODULATOR/ISOLATOR SPD SIG CND	AB	2	B-15	GG-13	613'06"		X			X														I	N	
No	18	E41K411	HPCI TURB GOVERNOR MODULATOR/ISOLATOR SPD SIGNAL CTRLR	AB	2	B-15	GG-13	613'06"		X			X														I	N	
No	18	E41K600	HPCI PWR SPLY	AB	2	B-15	F-14	613'06"		X			X														I	N	
No	18	E41K603	HPCI DC TO AC VOLTAGE INVERTER PWR SPLY	AB	2	B-15	F-14	613'06"		X			X														I	N	
No	18	E41K615	HPCI PUMP FLOW RATE FLOW IND CTRLR	AB	3	B-23	F-13	643'06"		X			X														I	Y	
No	18	E41K801	HPCI PUMP FLOW CTRLR MODULATOR/ISOLATOR FLOW SIG CND	AB	2	B-15	F-14	613'06"		X			X														I	N	
No	0	E41K803	HPCI TURB SPD MODULATOR/ISOLATOR SPD SIG CND	AB	2	B-15	F-14	613'06"	X	X			X														I	N	
No	18	E41N006	PUMP DISCHARGE HI/LOW FLOW SIGNAL TO MIN FLOW BYPASS VLV FLOW SW	RB	SB	B-01	H-11	540'00"		X			X														I	Y	
No	18	E41N008	HPCI PUMP DISCHARGE FLOW SIGNAL TO TURB CTRL FLOW TRANSMITTER	RB	SB	B-01	H-11	540'00"		X			X														I	Y	
No	18	E41N009	HPCI PUMP DISCHARGE PRESS TRANSMITTER	RB	SB	B-01	H-11	540'00"		X			X														I	Y	
No	18	E41N010	HPCI PUMP SUCT LOW PRESS TURB TRIP PRESS SW	AB	SB	B-01	H-11	543'05"		X			X														I	N	
No	18	E41N013	HPCI TURB STM INLET PRESS TRANSMITTER	RB	SB	B-01	H-11	540'00"		X			X														I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	E41N016	HPCI TURB STM EXHAUST PRESS INDICATION ELEC PRESS TRANSMITTER	RB	SB	B-01	H-11	540'00"		X			X														I	N	
No	18	E41N017A	HPCI TURB EXHAUST HI PRESS SW	AB	SB	B-01	H-11	543'09"		X			X														I	N	
No	18	E41N017B	HPCI TURB EXHAUST HI PRESS SW	AB	SB	B-01	H-11	541'10"		X			X														I	N	
No	18	E41N019	HPCI PUMP SUCT PRESS TRANSMITTER	RB	SB	B-01	H-11	540'00"		X			X														I	N	
No	18	E41N027	HPCI PUMP DISCHARGE PRESS SIGNAL TO MIN FLOW BYPASS VLV PRESS SW	RB	SB	B-01	H-11	540'00"		X			X														I	Y	
No	18	E41N030A	RHR AREA LEAK DET "A" HPCI ROOM CEILING OVER TURB N SIDE TEMP ELEMENT	RB	SB		G-10	551'00"		X			X														I	Y	
No	18	E41N030B	HPCI RHR AREA LEAK DET "B" HPCI ROOM CEILING OVER TURB - S SIDE TEMP ELEMENT	RB	SB		G-9	551'00"		X			X														I	Y	
No	18	E41N055A	HPCI TURB EXHAUST DIAPHRAGM HI PRESS ISO PRESS TRANSMITTER	RB	B	A-09	G-10	566'00"		X			X														I	Y	
No	18	E41N055B	HPCI TURB EXHAUST DIAPHRAGM HI PRESS ISO PRESS TRANSMITTER	RB	SB		H-11	540'00"		X			X														I	Y	
No	18	E41N055C	HPCI TURB EXHAUST DIAPHRAGM HI PRESS ISO PRESS TRANSMITTER	RB	B	A-09	G-10	566'00"		X			X														I	Y	
No	18	E41N055D	HPCI TURB EXHAUST DIAPHRAGM HI PRESS ISO PRESS TRANSMITTER	RB	SB		H-11	540'00"		X			X														I	Y	
No	18	E41N057A	HPCI HI DIFF PRESS ISO SIGNAL PRESS DIFF TRANSMITTER	RB	B	A-08	F-15	566'00"		X			X														I	Y	
No	18	E41N057B	HPCI HI DIFF PRESS ISO SIGNAL PRESS DIFF TRANSMITTER	RB	B	A-06	B-10	562'00"		X			X														I	Y	
No	18	E41N058A	HPCI STM LINE LOW PRESS ISO "A" SIGNAL PRESS TRANSMITTER	RB	B	A-08	F-15	563'00"		X			X														I	Y	
No	18	E41N058B	HPCI STM LINE LOW PRESS ISO "B" SIGNAL PRESS TRANSMITTER	RB	B	A-06	B-10	562'00"		X			X														I	Y	
No	18	E41N058C	HPCI STM LINE LOW PRESS ISO "C" SIGNAL PRESS TRANSMITTER	RB	B	A-08	F-15	563'00"		X			X														I	Y	
No	18	E41N058D	HPCI STM LINE LOW PRESS ISO "D" SIGNAL PRESS TRANSMITTER	RB	B	A-06	B-10	562'00"		X			X														I	Y	
No	18	E41N061B	HPCI CST LOW LVL SIGNAL TO SUPR POOL SUCT VLV LVL TRANSMITTER ELECT	YD	YD			587'05"		X			X														I	Y	
No	18	E41N061D	HPCI CST LOW LVL SIGNAL TO SUPR POOL SUCT VLV LVL TRANSMITTER ELECT	YD	YD			587'05"		X			X														I	Y	
No	18	E41N062B	HPCI HI LVL SIGNAL TO SUPR POOL SUCT VLV LVL TRANSMITTER	RB	SB		B-15	549'04"		X			X														I	Y	
No	18	E41N062D	HPCI HI LVL SIGNAL TO SUPR POOL SUCT VLV LVL TRANSMITTER	RB	SB		B-10	549'04"		X			X														I	Y	
No	19	E41N203	HPCI TURB OIL COOLER DISCHARGE TSE	RB	SB	B-01	H-10	549'10"		X			X														I	N	
No	18	E41N212	HPCI TURB MAGNETIC PICK-UP SPD ELEMENT	RB	SB	B-01	H-10	544'00"		X			X														I	N	
No	0	E41N500A	HPCI TURB STM STOP VLV V17-2026 VLV POS SW	RB	SB	B-01	H-10	549'10"		X			X														I	Y	
No	0	E41N500B	HPCI TURB STM STOP VLV V17-2026 VLV POS SW	RB	SB	B-01	H-10	549'10"		X			X														I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	19	E41N602A	HPCI STM LEAK DETECT "A" SIGNAL TO SYS ISO TSE	AB	2	B-15	F-14	613'06"		X			X														I	Y	
No	19	E41N602B	HPCI STM LEAK DETECT "B" SIGNAL TO SYS ISO TSE	AB	2	B-15	F-14	613'06"		X			X														I	Y	
No	18	E41N655A	HPCI TURB DIAPHRAGM EXHAUST PRESS HI MASTER TRIP UNIT	AB	4		F-12	659'06"		X			X														I	Y	
No	18	E41N655B	HPCI TURB EXHAUST DIAPHRAGM HI PRESS ISO TRIP UNIT MISC SIG CND	AB	4		F-11	659'06"		X			X														I	Y	
No	18	E41N655C	HPCI TURB EXHAUST DIAPHRAGM HI PRESS ISO TRIP UNIT MISC SIG CND	AB	4		F-12	659'06"		X			X														I	Y	
No	18	E41N655D	HPCI TURB EXHAUST DIAPHRAGM HI PRESS ISO TRIP UNIT MISC SIG CND	AB	4		F-11	659'06"		X			X														I	Y	
No	18	E41N657A	HPCI STM LINE HI DIFF PRESS ISO SIGNAL TRIP LINE MISC SIG CND	AB	4		F-12	659'06"		X			X														I	Y	
No	18	E41N657B	HPCI STM LINE HI DIFF PRESS ISO SIGNAL TRIP LINE MISC SIG CND	AB	4		F-11	659'06"		X			X														I	Y	
No	18	E41N658A	HPCI STM LINE LOW PRESS ISO SIGNAL "A" TRIP UNIT MISC SIG CND	AB	4		F-12	659'06"		X			X														I	Y	
No	18	E41N658B	HPCI STM LINE LO PRESS ISO SIGNAL "B" TRIP UNIT LINE MISC SIG CND	AB	4		F-11	659'06"		X			X														I	Y	
No	18	E41N658C	HPCI STM LINE LO PRESS ISO SIGNAL "C" TRIP UNIT LINE MISC SIG CND	AB	4		F-12	659'06"		X			X														I	Y	
No	18	E41N658D	HPCI STM LINE LO PRESS ISO SIGNAL "D" TRIP UNIT LINE MISC SIG CND	AB	4		F-11	659'06"		X			X														I	Y	
No	18	E41N660A	HPCI STM LINE HI DIFF PRESS ISO SIGNAL TRIP UNIT MISC SIG CND	AB	4		F-12	659'06"		X			X														I	Y	
No	18	E41N660B	HPCI STM LINE HI DIFF PRESS ISO SIGNAL TRIP UNIT MISC SIG CND	AB	4		F-11	659'06"		X			X														I	Y	
No	18	E41N661B	HPCI CST LO LVL SIGNAL TO SUPR POOL SUCT VLV TRIP UNIT MISC SIG CND	AB	4		F-11	659'06"		X			X														I	Y	
No	18	E41N661D	HPCI CST LO LVL SIGNAL TO SUPR POOL SUCT VLV TRIP UNIT MISC SIG CND	AB	4		F-11	659'06"		X			X														I	Y	
No	0	E41N662B	HPCI HI LVL SIGNAL TO SUPR POOL SUCT VLV TRIP UNIT MISC SIG CND	AB	4		F-11	659'06"		X			X				35477n										I	Y	
No	0	E41N662D	HPCI HI LVL SIGNAL TO SUPR POOL SUCT VLV TRIP UNIT MISC SIG CND	AB	4		F-11	659'06"		X			X				35477n										I	Y	
No	18	E41NA01	HPCI AUX OIL PUMP START/MAIN OIL PUMP TRIP PRESS SW	AB	SB	B-01	H-10	546'00"		X			X														I	N	
No	20	E41R613	HPCI MAIN PUMP E4101C001A DISCHARGE ELEC FLOW INDICATOR	AB	3		F-13	643'06"		X			X														I	Y	
No	21	E5100B001	RCIC BARO CNDR	RB	SB		F-17	540'00"		X			X														I	N	
Yes	21	E5100B001	RCIC BARO CNDR	RB	SB		F-17	540'00"					X					Y		Y					Y		I	N	
No	21	E5100B002	RCIC LUBE OIL COOLER	RB	SB		F-17			X			X														I	N	
No	0	E5100F017	RCIC PUMP INLET PRESS RELIEF VLV	RB	SB		F-16	545'00"		X			X														I	Y	

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IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	0	E5100F018	RCIC LUBE OIL COOLER COOLING WATER SPLY PRESS RELIEF VLV	RB	SB		F-17			X			X														I	Y	
Yes	5	E5101C001	RCIC REACTOR CORE ISOLATION COOLING PUMP	RB	SB	A-05	F-17	543'00"		X			X				29900n 311	Y		Y					Y		I	Y	
No	DS	E5101C002	RCIC REACTOR CORE ISOLATION COOLING TURBINE	RB	SB		F-17	543'00"		X			X				29900n										I	Y	
No	6	E5101C003	RCIC BAROMETRIC CONDENSER CONDENSATE PUMP	RB	SB		F-17	540'00"		X			X														I	Y	
No	5	E5101C004	RCIC BAROMETRIC CONDENSER VACUUM PUMP	RB	SB		F-17	540'00"		X			X														I	Y	
No	8	E5150F001	RCIC TURB EXHAUST LINE ISO MOV	RB	SB	A-01	330DEG	559'06"					X				35380n										I	Y	
No	8	E5150F007	RCIC TURB STM SPLY INBD CNTM ISO MOV	DW	1		352DEG	586'10"		X			X														I	Y	
No	8	E5150F010	RCIC PUMP SPLY FROM CST ISO MOV	RB	SB	A-05	F-15	552'09"					X				35380n										I	Y	
No	8	E5150F012	RCIC PUMP DISCHARGE ISO MOV	RB	B	A-08	G-15	578'06"					X				35380n										I	Y	
Yes	8	E5150F013	RCIC PUMP SPLY TO FEEDWATER HEADER ISO MOV	RB	1	A-16	G-12	586'06"					X				28668y	N		Y					Y		I	Y	
No	8	E5150F013	RCIC PUMP SPLY TO FEEDWATER HEADER ISO MOV	RB	1	A-16	G-12	586'06"					X				29638 35380										I	Y	
No	8	E5150F019	RCIC PUMP MIN FLOW RECIRC BYPASS MOV	RB	B	A-01	F-13	578'06"		X			X														I	Y	
No	8	E5150F022	RCIC SPLY TO CST TEST ISO MOV	RB	B		G-12	575'00"					X				27430n										I	Y	
No	8	E5150F022	RCIC SPLY TO CST TEST ISO MOV	RB	B		G-12	575'00"					X				35380n										I	Y	
Yes	7	E5150F025	RCIC DIV1 STM HEADER DRAIN POT TO CNDR INBD DRAIN ISO AOV	RB	SB		F-17	541'03"		X			X					Y		Y					Y		I	Y	
No	8	E5150F029	RCIC PUMP SPLY FROM TORUS ISO MOV	RB	SB	A-05	F-15	541'06"		X			X														I	Y	
Yes	8	E5150F031	RCIC PUMP SPLY FROM TORUS ISO MOV	RB	SB	A-01	F-15	545'00"		X			X				35380n	Y		Y					Y		I	Y	
No	0	E5150F044	RCIC TURB GOVERNOR CTRL VLV	RB	SB		F-17	543'11"		X			X														I	Y	
No	8	E5150F045	RCIC TURB STM INLET ISO MOV	RB	SB	A-05	F-17	544'00"					X				35380n										I	Y	
No	8	E5150F046	RCIC LUBE OIL COOLER COOLING WATER SPLY ISO MOV	RB	SB	A-05	F-17	547'00"		X			X														I	Y	
No	8	E5150F059	RCIC TURB INLET TRIP THROTTLE MOV	RB	SB	A-05	F-17	544'00"		X			X														I	Y	
No	8	E5150F062	RCIC TURB EXHAUST LINE VACUUM BREAKER ISO MOV	RB	B	A-01	D-15	578'00"		X			X														I	Y	
No	8	E5150F095	RCIC WARM-UP BYPASS INLET MOV	RB	SB	A-05	F-17	544'07"					X				35189n										I	Y	
No	8	E51F004	RCIC CONDENSATE PUMP DISCHARGE DRAIN VLV E5150F004 SOLENOID VLV V8-2243	RB	SB		F-15	544'00"		X			X														I	Y	
No	0	E51F015	RCIC COOLING WATER TO LUBE OIL COOLER E5100B002 PRESSURE CONTROL VLV	RB	SB		F-17	545'11"		X			X														I	Y	
No	8	E51F025	RCIC MS DRAIN POT TO MAIN CNDR DRAIN VLV E5150F025 SOLENOID VLV	RB	SB		F-15	544'00"		X			X														I	Y	
No	20	E51K200	RCIC TURB EGM CTRL BOX SPD CTRLR ELEC	AB	2		F-17	617'00"		X			X														I	N	
No	0	E51K201	RCIC TURB CTRL SPD CURRENT TO VOLTAGE CONVERTER	AB	2		F-17	617'00"		X			X				33185n										I	N	
No	0	E51K203	RCIC SPD SIG CND EGR HYDRAULIC ACTUATOR	RB	SB	A-05	F-17	549'10"		X			X														I	N	
No	20	E51K204	RCIC TURB EG-M CTRL BOX PWR SOURCE DROPPING RESISTOR BOX SPD CTRLR ELEC	AB	2		F-17	617'00"		X			X														I	N	
No	0	E51K409	RCIC TURB CTRL MODULATOR/ISOLATOR SPD SIG CND	RB	2		F-17	613'06"		X			X				33185n										I	N	
No	20	E51K411	RCIC TURB CTRL MODULATOR/ISOLATOR	RB	2		F-17	613'06"		X			X														I	N	
No	20	E51K600	RCIC PWR SPLY	AB	2		F-16	613'06"		X			X														I	Y	
No	20	E51K603	RCIC PWR SPLY	AB	2		F-16	613'06"		X			X														I	N	
No	20	E51K615	RCIC PUMP DISCHARGE FLOW CTRLR ELEC	AB	3		G-13	643'06"		X			X														I	Y	

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No	20	E51K801	RCIC PUMP DISCHARGE MODULATOR/ISOLATOR	AB	2		F-16	613'06"		X			X													I	N	
No	20	E51K803	RCIC TURB SPD MODULATOR/ISOLATOR	RB	2		F-16	613'06"		X			X													I	N	
No	20	E51K805	RCIC PUMP FLOW RATE MODULATOR/ISOLATOR	AB	2		F-16	613'06"		X			X													I	Y	
No	18	E51N002	RCIC PUMP DISCHARGE HI/LOW FLOW SW ELEC	RB	SB		G-15	540'00"		X			X													I	N	
No	0	E51N003	RCIC PUMP DISCHARGE FLOW TRANSMITTER ELEC	RB	SB		G-15	540'00"		X			X				30047n									I	Y	
No	18	E51N004	RCIC PUMP DISCHARGE PXE	RB	SB		G-15	540'00"		X			X													I	N	
No	18	E51N005	RCIC PUMP E5101C001 SUCT PRESS TRANSMITTER	RB	SB		G-15	540'00"		X			X													I	N	
No	18	E51N006	RCIC PUMP SUCT LOW PRESS TRIP PRESS SW ELEC	RB	SB		G-15	540'00"		X			X													I	N	
No	18	E51N007	RCIC TURB STM INLET PRESSURE TRANSMITTER ELEC	RB	SB		G-15	540'00"		X			X													I	N	
No	18	E51N008	RCIC TURB STM EXHAUST PRESSURE TRANSMITTER ELEC	RB	SB		G-15	540'00"		X			X													I	N	
No	18	E51N009A	RCIC TURB STM EXHAUST HI PRESS SW ELEC	RB	SB		G-15	540'00"		X			X													I	N	
No	18	E51N009B	RCIC TURB STM EXHAUST HI PRESS SW ELEC	RB	SB		G-15	540'00"		X			X													I	N	
No	20	E51N010	RCIC TURB STM INLET DRAIN POT HI ALARM LVL SW ELEC	RB	SB		F-17	543'00"					X				36555n									I	N	
No	18	E51N020	RCIC PUMP DISCHARGE HI PRESS SW ELEC	RB	SB		G-15	540'00"		X			X													I	N	
No	18	E51N023A	RCIC STM LEAK DETECT RCIC EQUIP AREA A T/C	RB	SB		F-17	550'00"		X			X													I	Y	
No	18	E51N023B	RCIC STM LEAK DETECT RCIC EQUIP AREA B T/C	RB	SB		G-15	550'00"		X			X													I	Y	
No	18	E51N055A	RCIC TURB EXHAUST DIAPHRAGM HI PRESS DIV1 PXE	RB	SB		G-15	540'00"		X			X													I	Y	
No	18	E51N055B	RCIC TURB EXHAUST DIAPHRAGM HI PRESS DIV2 PXE	RB	B	A-08	F-17	566'00"		X			X													I	Y	
No	18	E51N055C	RCIC TURB EXHAUST DIAPHRAGM HI PRESS DIV1 PXE	RB	SB		G-15	540'00"		X			X													I	Y	
No	18	E51N055D	RCIC TURB EXHAUST DIAPHRAGM HI PRESS DIV2 PXE	RB	B	A-08	F-17	566'00"		X			X													I	Y	
No	18	E51N057A	RCIC HI STM FLOW PRESS DIFF TRANSMITTER	RB	1		C-13	587'06"		X			X													I	Y	
No	18	E51N057B	RCIC HI STM FLOW PRESS DIFF TRANSMITTER	RB	B	A-09	G-10	566'00"		X			X													I	Y	
No	18	E51N058A	RCIC STM LINE LOW PRESS TRANSMITTER	RB	1		D-15	587'06"		X			X													I	Y	
No	18	E51N058B	RCIC STM LINE LOW PRESS TRANSMITTER	RB	B	A-09	G-10	566'00"		X			X													I	Y	
No	18	E51N058C	RCIC STM LINE LOW PRESS TRANSMITTER	RB	1		C-13	587'06"		X			X													I	Y	
No	18	E51N058D	RCIC STM LINE LOW PRESS TRANSMITTER	RB	B	A-09	G-10	566'00"		X			X													I	Y	
No	0	E51N205	RCIC TURB SPD SENSOR SPD ELEMENT	RB	SB		F-17	549'10"		X			X													I	N	
No	0	E51N512	RCIC TO REMOTE TRIP SIGNAL V17-2023 VLV POSITION SW	RB	SB		F-17	543'11"		X			X													I	N	
No	19	E51N602A	RCIC STM LEAK DETECT RCIC EQUIP AREA A TEMP SW ELECTRIC	AB	2		F-14	613'06"		X			X													I	Y	
No	19	E51N602B	RCIC STM LEAK DETECT RCIC EQUIP AREA B TEMP SW ELECTRIC	AB	2		F-14	613'06"		X			X													I	Y	
No	20	E51N655A	RCIC TURB EXHAUST DIAPHRAGM HI PRESS TRIP UNIT MISC SIG CND ELEC	AB	4		F-12	659'06"		X			X													I	Y	
No	20	E51N655B	RCIC TURB EXHAUST DIAPHRAGM HI PRESS MASTER TRIP UNIT	AB	4		F-11	659'06"		X			X													I	Y	
No	20	E51N655C	RCIC TURB EXHAUST DIAPHRAGM HI PRESS TRIP UNIT MISC SIG CND ELEC	AB	4		F-12	659'06"		X			X													I	Y	
No	20	E51N655D	RCIC TURB EXHAUST DIAPHRAGM HI PRESS TRIP UNIT MISC SIG CND ELEC	AB	4		F-11	659'06"		X			X													I	Y	

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No	20	E51N657A	RCIC HI STM LINE FLOW PRESS DIFF TRIP UNIT MISC SIG CND ELEC	AB	4		F-12	659'06"		X			X													I	Y	
No	20	E51N657B	RCIC HI STM LINE FLOW PRESS DIFF TRIP UNIT MISC SIG CND ELEC	AB	4		F-11	659'06"		X			X													I	Y	
No	20	E51N658A	RCIC STM LINE LOW PRESS DIFF TRIP UNIT MISC SIG CND ELEC	AB	4		F-12	659'06"		X			X													I	Y	
No	20	E51N658B	RCIC STM LINE LOW PRESS DIFF TRIP UNIT MISC SIG CND ELEC	AB	4		F-11	659'06"		X			X													I	Y	
No	20	E51N658C	RCIC STM LINE LOW PRESS DIFF TRIP UNIT MISC SIG CND ELEC	AB	4		F-12	659'06"		X			X													I	Y	
No	20	E51N658D	RCIC STM LINE LOW PRESS DIFF TRIP UNIT MISC SIG CND ELEC	AB	4		F-11	659'06"		X			X													I	Y	
No	20	E51N660A	RCIC HI STM LINE FLOW TRIP UNIT MISC SIG CND ELEC	AB	4		F-12	659'06"		X			X													I	Y	
No	20	E51N660B	RCIC HI STM LINE FLOW TRIP UNIT MISC SIG CND ELEC	AB	4		F-11	659'06"		X			X													I	Y	
No	DS	E51R004	RCIC TB STM EXHAUST PRESSURE INDICATOR	RB	SB		G-15	540'00"	X				X													I	N	
No	20	E51R608	RCIC TURB STM INLET AND EXHAUST PRESS INDICATOR	AB	3		G-13	643'06"		X			X													I	Y	
No	20	E51R609	RCIC PUMP DISCHARGE & SUCT PRESS INDICATOR	RB	3		G-13	643'06"		X			X													I	Y	
No	20	E51R613	RCIC PUMP DISCHARGE FLOW INDICATOR	AB	3		G-13	643'06"		X			X													I	Y	
No	18	F1600E011A	STRG EQUIP SPENT FUEL STRG RACK	RB	5	A-43	D-15	684'06"				X	X				27387n									I	N	
No	18	F1600E011B	STRG EQUIP SPENT FUEL STRG RACK	RB	5	A-43	D-15	684'06"				X	X				27387n									I	N	
No	18	F1600E011C	STRG EQUIP SPENT FUEL STRG RACK	RB	5	A-43	D-15	684'06"				X	X				27387n									I	N	
No	18	F1600E011D	STRG EQUIP SPENT FUEL STRG RACK	RB	5	A-43	D-15	684'06"				X	X				27387n									I	N	
No	DS	G1100D077	RW DW FD AREA SUMP PMP COO1A & C001B CNTM PENE ISO RUPTURE DISC	RB	B		F-13	577'05"				X	X				28747n									I	Y	
No	DS	G1100D078	RW DW FD AREA SUMP PMP C006A & C006B CNTM PENE ISO RUPTURE DISC	RB	B		F-13	577'03"				X	X				28747n									I	Y	
No	0	G1100F2123	RW DW EQUIP DRN SUMP PMP C006A/C006B CNTM PEN ISO RUPT DISC D078 TEST VLV	RB	B		F-13	577'03"				X	X				28747n									I	Y	
No	0	G1100F2124	RW DW FD AREA SUMP PMP C001A & C001B CNTM PENE ISO RUPTURE DISC D077 TEST VLV	RB	B		F-13	577'05"				X	X				28747n									I	Y	
Yes	8	G1154F018	RW DW EQUIP DRN AREA SUMP PMP C006A & C006B WC TNK INBOARD CNTM ISO MOV	DW	B		320DEG	578'03"		X							30142y	N		Y	Y		Y	Y		I	Y	
No	8	G1154F018	RW DW EQUIP DRN AREA SUMP PMP C006A & C006B WC TNK INBOARD CNTM ISO MOV	DW	B		320DEG	578'03"									35380n									I	Y	
No	8	G1154F600	RW DW FD AREA SUMP PMP C001A & C001B TO FD COLL TNK INBOARD CNTM ISO MOV	DW	B		324DEG	579'10"		X																I	Y	
No	DS	G1300E001	ISFSI DRY CASK STORAGE HYDRAULIC JACK SW QUAD WEST COLUMN	RB	SB	A-02	A-9	559'00"									36637n									I	N	
No	DS	G1300E002	ISFSI DRY CASK STORAQGE HYDRAULIC JACK SW QUAD EAST COLUMN	RB	SB	A-02	A-9	559'00"									36637n									I	N	
No	DS	G1300E003	ISFSI DRY CASK STORAGE HYDRAULIC JACK SW QUAD WEST COLUMN	RB	B	A-06	A-9	580'00"									36637n									I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	DS	G1300E004	ISFSI DRY CASK STORAGE HYDRAULIC JACK SW QUAD EAST COLUMN	RB	B	A-06	A-9	580'00"									36637n										I	N	
No	DS	G1300E005	ISFSI DRY CASK STORAGE HYDRAULIC JACK SPARE	RB	B	A-06	A-9										36637n										I	N	
No	DS	G1300E006	ISFSI DRY CASK STORAGE HYDRAULIC JACK SPARE	RB	B	A-06	A-9										36637n										I	N	
Yes	8	G3352F001	RWCU INBOARD CNTM ISO MOV	DW	1		229DEG	602'10"									35621y	N		Y	Y			Y	Y		I	Y	
No	8	G3352F004	RWCU OTBD CNTM ISO MOV	RB	2	A-19A	C-13	623'07"		X																	I	Y	
No	DS	G33K600	RWCU E/S	AB	2	B-15	F-16	613'06"	X																		I	Y	
No	0	G33K602	RWCU INLET FLOW SQUARE ROOT CONV FLOW SIG CND	RB	2		F-16	613'06"	X																		I	Y	
No	0	G33K603	RWCU RX RTRN FLOW SQUARE ROOT CONV FLOW SIG CND	RB	2		F-16	613'06"	X																		I	Y	
No	0	G33K604	RWCU LEAK DETECT FLOW SUMMER	RB	2		F-16	613'06"	X																		I	Y	
No	0	G33K605	RWCU BLOWDOWN DRN LINE FLOW SQUARE ROOT CONV	RB	2		F-16	613'06"	X																		I	Y	
No	0	G33N603A	RWCU STM LEAK DETECT FLOW SW ELEC	RB	2		F-16	613'06"	X																		I	Y	
No	0	G33N603B	RWCU STM LEAK DETECT FLOW SW ELEC	RB	2		F-16	613'06"	X																		I	Y	
No	8	G5100F600	TWM TORUS DRN AZ-112-30 INBOARD ISO MOV	RB	SB	A-12	C-10	540'07"		X																	I	Y	
No	8	G5100F601	TWM TORUS DRN AZ-112-30 OTBD ISO MOV	RB	SB	A-01	C-10	540'07"		X																	I	Y	
No	8	G5100F602	TWM TORUS DRN AZ-292-30 INBOARD ISO MOV	RB	SB	A-12	E-15	540'07"		X																	I	Y	
No	8	G5100F603	TWM TORUS DRN AZ-292-30 OTBD ISO MOV	RB	SB	A-01	E-15	540'07"		X																	I	Y	
No	8	G5100F604	TWM TO RESIDUAL HEAT REMOVAL (RHR) TEST LINE INBOARD ISO MOV	RB	B	A-01	C-13	577'04"		X																	I	Y	
No	8	G5100F605	TWM TO RESIDUAL HEAT REMOVAL (RHR) TEST LINE OTBD ISO MOV	RB	B	A-01	C-13	577'04"		X																	I	Y	
Yes	8	G5100F606	TWM TO CORE SPRAY (CS) TEST LINE INBOARD ISO MOV	RB	B	A-12	F-10	570'11"		X							27030y	Y	Y						Y		I	Y	
No	8	G5100F607	TWM TO CORE SPRAY (CS) TEST LINE OTBD ISO MOV	RB	B	A-01	40DEG	570'11"		X																	I	Y	
No	18	G51P400A	TWM AUX RELAY CABINET DIV1 INSTRUMENT RACK DIV1	RB	1		E-17	583'10"		X																	I	N	
No	18	G51P400B	TWM AUX RELAY CABINET DIV2 INSTRUMENT RACK DIV2	RB	1		E-9	583'10"		X																	I	N	
Yes	20	H11P601	CRTL & AUX RM PNL (MR ONLY) ECCS DIV1 COMBINATION OPERATING PANEL	AB	3	B-23	G-13	643'06"		X							29183y	Y	Y						Y		I	Y	
Yes	20	H11P602	CRTL & AUX RM PNL (MR ONLY) ECCS DIV2 COMBINATION OPERATING PANEL	AB	3		F-13	643'06"		X							29183y	Y	Y						Y		I	Y	
No	20	H11P608	CRTL & AUX RM PNL (MR ONLY) PRNM CTRL AND AUX RM PNL	AB	2		G-14	613'06"									27421n										I	Y	
No	20	H11P611	CRTL & AUX RM PNL (MR ONLY) RPS TRIP CAB DIV2 INST RACK	AB	2		GG-15	613'06"		X																	I	N	
No	20	H11P617	CRTL & AUX RM PNL (MR ONLY) DIV1 RHR RELAY CAB INST RACK	AB	2		F-16	613'06"		X																	I	N	
No	20	H11P618	CRTL & AUX RM PNL (MR ONLY) DIV2 RHR RELAY CAB INST RACK	AB	2		G-14	613'06"		X																	I	N	

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	20	H11P620	CRTL & AUX RM PNL (MR ONLY) HPCI RELAY DIV2 INST RACK	AB	2		G-14	613'06"		X																	I	N	
No	20	H11P621	CRTL & AUX RM PNL (MR ONLY) RCIC DIV1 INST RACK	AB	2		G-16	613'06"		X																	I	N	
Yes	20	H11P622	CTRL AND AUX RM PNL INBD VLV CTRL RELAY CAB DIV1 INST RACK	AB	2		G-16	613'06"		X							27297n	Y	Y						Y		I	N	
Yes	20	H11P623	CRTL & AUX RM PNL (MR ONLY) OTBD VLV CTRL RELAY CAB DIV2 INST RACK	AB	2		G-14	613'06"		X							27297n	Y	Y						Y		I	N	
No	20	H11P626	CRTL & AUX RM PNL (MR ONLY) CS DIV1 INST RACK	AB	2		G-16	613'06"		X																	I	N	
No	20	H11P627	CRTL & AUX RM PNL (MR ONLY) CS DIV2 INST RACK	AB	2		G-14	613'06"		X																	I	N	
No	20	H11P808	CRTL & AUX RM PNL (MR ONLY) HVAC AND SGTS DIV1, COMBINATION OPERATING PANEL	AB	3		G-16	643'06"									12689n										I	Y	
No	20	H11P809	CRTL RM PNL (MR ONLY) SYS SERVICES 480V & 4160V DIV1 INST RACK	RB	3		G-14	643'06"		X																	I	Y	
No	20	H11P810	CRTL RM PNL (MR ONLY) SYS SERVICES 480V & 4160V DIV2 INST RACK	RB	3		G-13	643'06"		X																	I	Y	
No	20	H11P817	CRTL & AUX RM PNL (MR ONLY) HVAC AND SGTS DIV2 COMBINATION OPERATING PANEL	AB	3		G-15	643'06"									12689n										I	N	
Yes	14	H11P900	CRTL & AUX RM PNL (MR ONLY) 120 VAC DIST PANEL - DIV1 INST RACK	RB	2		F-17	618'06"		X								Y	Y						Y		I	N	
Yes	14	H11P900	CRTL & AUX RM PNL (MR ONLY) 120 VAC DIST PANEL - DIV1 INST RACK	RB	2		F-17	618'06"		X								Y	Y						Y		I	N	
Yes	14	H11P901	CRTL & AUX RM PNL (MR ONLY) 120 VAC DIST PANEL - DIV1 INST RACK	AB	2		F-16	618'06"		X								Y	Y						Y		I	Y	
Yes	14	H11P902	CRTL & AUX RM PNL (MR ONLY) 120 VAC DIST PANEL - DIV2 INST RACK	AB	2		F-14	618'06"		X								Y	Y						Y		I	N	
Yes	18	H11P917A	CRTL & AUX RM PNL (MR ONLY) MSIVLC CAB DIV1 INST RACK	RB	2		F-15	613'06"	X	X							27108y	Y	Y						Y		I	N	
Yes	18	H11P917B	CRTL & AUX RM PNL (MR ONLY) MSIVLC CAB DIV2 INST RACK	RB	2		G-14	613'06"	X	X							27108y	Y	Y						Y		I	N	
No	8	B2103F022D	NB MSL "D" INBD PC ISO AOV	DW	1	A-15	358DEG	588'00"		X		X	X			X		N		Y	Y			Y	Y		I	Y	X1 MMR
No	18	H11P929	CRTL & AUX RM PNL (MR ONLY) HPCI RELAY RM GOVERNOR CTRL INST RACK	RB	2		GG-13	618'06"		X																	I	N	
No	18	H21P004	LOC PNL/RACK (MR ONLY) RX VESSEL LVL & PRESS DIV1 INST RACK	RB	2		E-13	613'06"		X																	I	N	
No	18	H21P005	LOC PNL/RACK (MR ONLY) RX VESSEL LVL & PRESS DIV2 INST RACK	RB	2		C-11	613'06"		X																	I	Y	
No	18	H21P006	LOC PNL/RACK (MR ONLY) RECIRC PUMP A ESS INST RACK	RB	B		B-15	562'00"		X																	I	N	
No	18	H21P009	LOC PNL/RACK (MR ONLY) JET PUMP RACK A DIV1 INST RACK	RB	1		E-15	583'06"		X																	I	N	
No	18	H21P014	LOC PNL/RACK (MR ONLY) HPCI ESS DIV2 INST RACK	RB	SB		H-11	540'00"		X																	I	Y	
No	18	H21P016	LOC PNL/RACK (MR ONLY) CS & HPCI LEAK DETECT SYS A DIV1 INST RACK	RB	B		F-15	562'00"		X																	I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	H21P017	LOC PNL/RACK (MR ONLY) RCIC DIV1 INST RACK	RB	SB		G-15	540'00"		X																	I	Y	
No	18	H21P018	LOC PNL/RACK (MR ONLY) RHR CHA ESS DIV1 INST RACK	RB	B		B-15	562'00"		X																	I	Y	
No	18	H21P021	LOC PNL/RACK (MR ONLY) RHR CHB ESS DIV2 INST RACK	RB	B		B-10	562'00"		X																	I	Y	
No	18	H21P022	LOC PNL/RACK (MR ONLY) RECIRC PUMP B ESS INST RACK	RB	B		B-10	562'00"		X																	I	N	
No	18	H21P034	LOC PNL/RACK (MR ONLY) HPCI A DIV1 INST RACK	RB	B		G-10	566'00"		X																	I	N	
No	18	H21P035	LOC PNL/RACK (MR ONLY) CS & RCIC LEAK DETECT A DIV1 INST RACK	RB	1		C-13	587'06"		X																	I	Y	
No	18	H21P036	LOC PNL/RACK (MR ONLY) CS/HPCI LEAK DETECT SYS B DIV2 INST RACK	RB	B		B-10	562'00"		X																	I	Y	
No	18	H21P037	LOC PNL/RACK (MR ONLY) RCIC B DIV2 INST RACK	RB	B		F-17	566'00"		X																	I	N	
No	18	H21P038	LOC PNL/RACK (MR ONLY) RCIC LEAK DETECT SYS B DIV2 INST RACK	RB	B		G-10	566'00"		X																	I	Y	
No	8	B2103F028C	NB MSL "C" OTBD PC ISO AOV	RB	1	A-16	F-12	589'06"		X		X	X			X		Y	Y						Y		I	Y	MMR
No	18	H21P082	LOC PNL/RACK (MR ONLY) ECCS TRIP UNIT CAB DIV1 INST RACK	AB	4		F-12	659'06"		X																	I	N	
Yes	8	B21F013J	NB DIV1 SRV B2104F013J SOV	DW	1	A-15	314DEG	612'09"		X		X	X				29213n	N		Y	Y			Y	Y		I	Y	X1 MMR
No	18	H21P084	LOC PNL/RACK (MR ONLY) RPS TRIP UNIT CAB A1 DIV1 INST RACK	AB	4		F-12	659'06"		X																	I	N	
No	18	H21P086	LOCAL PNL AND RACKS RPS TRIP UNIT CAB B1 DIV1 INST RACK	AB	4		F-12	659'06"		X																	I	N	
No	8	B21F028D	NB MAIN STEAM ISO FOR RPV STEAM LINE TO TURBINE V17-2008 SOV	RB	1	A-16	F-12	589'06"		X		X	X			X		Y	Y						Y		I	Y	MMR
No	20	H21P090-1	LOC PNL/RACK (MR ONLY) SRV DIV1 RELAY CTRL CAB	AB	3		H-11	647'06"		X																	I	N	
No	20	H21P090-2	LOC PNL/RACK (MR ONLY) SRV DIV2 RELAY CTRL CAB	AB	3		G-11	647'06"		X																	I	N	
Yes	18	H21P285B	LOC PNL/RACK (MR ONLY) CCHVAC CHILLER DIV2 T4100B008 CTRL PANEL	AB	5		G-13	677'06"		X							34546n	Y	Y						Y		I	N	
No	18	H21P296B	LOC PNL/RACK (MR ONLY) CCHVAC DIV2 INST RACK	AB	5	B-25	G-12	677'06"		X																	I	N	
Yes	18	H21P296C	LOC PNL/RACK (MR ONLY) CCHVAC DIV1 AUTOMATIC TEMP CTRL PANEL	AB	5		H-13	677'06"	X	X								Y	Y						Y		I	N	
No	18	H21P296D	LOC PNL/RACK (MR ONLY) CCHVAC DIV2 AUTOMATIC TEMP CTRL PANEL	AB	5		H-12	677'06"		X																	I	N	
Yes	18	H21P296E	LOC PNL/RACK (MR ONLY) CCHVAC DIV1 INST RACK	AB	5		G-13	677'06"	X	X								Y	Y						Y		I	N	
No	18	H21P296F	LOC PNL/RACK (MR ONLY) CCHVAC DIV2 INST RACK	AB	5		G-13	677'06"		X																	I	N	
No	18	H21P352	LOC PNL/RACK (MR ONLY) DIESEL GEN RM NO. 13 VENT DIV2 INST RACK	RHR	2		G-9	617'00"		X																	I	N	
No	18	H21P353	LOC PNL/RACK (MR ONLY) DIESEL GEN RM NO. 14 VENT DIV2 INST RACK	RHR	2		G-7	617'00"		X																	I	N	
No	18	H21P376	LOCAL PNL AND RACKS DIV1 PC H2/02 MON SYS REMOTE CTRL CAB	AB	4	B-24	H-11	659'06"									28135n										I	N	
No	18	H21P423A	LOC PNL/RACK (MR ONLY) MSIVLC DIV1 INST RACK	RB	1		E-13	583'06"		X																	I	N	

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IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	H21P423B	LOC PNL/RACK (MR ONLY) MSIVLC DIV2 INST RACK	RB	1		D-10	583'06"		X																I	N	
No	18	H21P428	LOC PNL/RACK (MR ONLY) HPCI DIV1 PILOT VLVINST RACK	AB	SB		H-10	544'00"		X																I	N	
Yes	18	H21P447	LOC PNL/RACK (MR ONLY) EECW DIV1 INST RACK	RB	2		A-15	613'06"									29792y	Y	Y					Y		I	N	
No	18	H21P475	LOC PNL/RACK (MR ONLY) EECW DIV2 INST RACK	RB	1		F-11	583'06"		X																I	N	
No	18	H21P485	LOC PNL/RACK (MR ONLY) RCIC PILOT VLVDIV1 INST RACK	RB	SB		F-15	544'00"		X																I	N	
No	18	H21P501A	LOC PNL/RACK (MR ONLY) PILOT VLVDIV1 INST RACK	AB	B		H-17	551'00"		X																I	N	
No	18	H21P517	LOC PNL/RACK (MR ONLY) VENT CTRL PANEL RHR COMPLEX DIV1 INST RACK	RHR	1		E-1	594'00"		X																I	N	
No	18	H21P518	LOC PNL/RACK (MR ONLY) VENT CTRL PANEL RHR COMPLEX DIV2 INST RACK	RHR	1		E-13	594'00"		X																I	N	
No	18	H21P527	LOC PNL/RACK (MR ONLY) GENERAL SPLY AIR SYS LOCAL CTRL PANEL INST RACK	AB	5		G-11	677'06"		X																I	N	
No	18	H21P527A	LOC PNL/RACK (MR ONLY) RB GENERAL SPLY AIR CTRL PANEL DIV2 INST RACK	AB	5		G-12	681'08"		X																I	N	
No	18	H21P528	LOC PNL/RACK (MR ONLY) GENERAL EXHAUST AIR SYS LOCAL CTRL PANEL INST RACK	AB	4		H-10	659'06"		X																I	N	
No	18	H21P529	LOC PNL/RACK (MR ONLY) GENERAL EXHAUST AIR SYS LOCAL CTRL PANEL INST RACK	AB	4		H-9	659'06"		X																I	N	
Yes	19	B21N116B	NB MSL "B" LEAK DETECT DIV1 RTD	TB	2M	D-36	J-12	638'02"			X	X	X			X	27412n	N		Y	Y			Y	Y		I	Y	MMR
No	18	H21P548	LOC PNL/RACK (MR ONLY) RHR INSTRUMENTS DIV2 INST RACK	RB	B		A-10	562'00"		X																I	N	
Yes	14	H21P557	LOC PNL/RACK (MR ONLY) 120 VAC DIST PANEL DIV1 (INDUCTIVE) INST RACK	AB	5		H-17	681'04"		X								Y	Y						Y		I	N	
Yes	14	H21P558	LOC PNL/RACK (MR ONLY) 120 VAC DIST PANEL DIV2 (INDUCTIVE) INST RACK	AB	5		G-13	682'03"		X								Y	Y						Y		I	N	
Yes	14	H21P559	LOC PNL/RACK (MR ONLY) 120 VAC DIST PANEL DIV1 (INDUCTIVE) INST RACK	RB	2		C-15	617'06"		X								Y	Y						Y		I	N	
Yes	14	H21P560	LOC PNL/RACK (MR ONLY) 120 VAC DIST PANEL DIV2 (INDUCTIVE) INST RACK	RB	1		F-11	587'08"		X								Y	Y						Y		I	N	
Yes	14	H21P562	LOC PNL/RACK (MR ONLY) 120 VAC DIST PANEL DIV2 (INDUCTIVE) INST RACK	RB	B	A-06	B-10	565'11"		X								Y	Y						Y		I	N	
Yes	14	H21P562	LOC PNL/RACK (MR ONLY) 120 VAC DIST PANEL DIV2 (INDUCTIVE) INST RACK	RB	B	A-06	B-10	565'11"		X								Y	Y						Y		I	N	
No	18	H21P572	LOC PNL/RACK (MR ONLY) CR A/C DIV1 INST RACK	AB	5		G-13	684'06"		X																I	N	
No	18	H21P573	LOC PNL/RACK (MR ONLY) CR A/C DIV2 INST RACK	AB	5		H-13	684'06"		X																I	N	
No	18	H21P595A	LOC PNL/RACK (MR ONLY) DRYWELL MON DIV1 INST RACK	RB	2		F-13	618'00"		X																I	N	
No	18	H21P595B	LOC PNL/RACK (MR ONLY) DRYWELL MON DIV2 INST RACK	RB	2		C-13	618'00"		X																I	N	
No	18	H21P596A	LOC PNL/RACK (MR ONLY) TORUS MON DIV1 INST RACK	RB	SB		A-15	540'00"		X																I	N	

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IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	H21P614A	LOC PNL/RACK (MR ONLY) TORUS MON SYS INST RACK	RB	SB		A-15	541'10"		X																	I	N	
Yes	21	C1103D128	CRD NUMBER 34-27 HYD CTRL UNIT	RB	1	A-12	D-10	586'06"	X		X		X					Y	Y						Y		I	Y	MMR
Yes	18	H21P350	LOC PNL/RACK (MR ONLY) DIESEL GEN RM NO. 11 VENT DIV1 INST RACK	RHR	2		G-7	617'00"	X	X								Y	Y						Y		I	N	
No	18	H21P631A	LOCAL PNL AND RACKS DIV1 TORUS PRESS INSTRUMENTATION RACK	RB	1		A-13	586'04"		X																	I	N	
No	18	H21P631B	LOCAL PNL AND RACKS DIV2 TORUS PRESS INSTRUMENTATION RACK	RB	1		A-11	586'04"		X																	I	N	
No	0	N1100F015B	MDS N11L437B CT TEST CONNECTION VLV	TB	2M	D-36A	K-12	631'06"									28990n										I	N	
No	DS	N1100G002	CHEMICAL TAP N11L437B TO SAMPLE COOLER P3302B002 FLEXIBLE HOSE ASSEMBLY	TB	2M		K-12	631'06"									28990n										I	N	
No	DS	N11L437B	MDS FROM RPV TO 52 INCH MANIFOLD CHEMICAL TAP	TB	2M		K-12	631'06"									28990n										I	N	
No	0	P3300F207	PPS MS SAMP COOLER P3302B002 INLET VLV	TB	2M		K-12	630'09"									28990n										I	N	
No	0	P3300F208	PPS MS SAMP COOLER P3302B002 OUTLET VLV	TB	2M		K-12	630'07"									28990n										I	N	
No	0	P3300F209	PPS MS SAMP COOLER P3302B002 OUTLET DRIAN VLV	TB	2M		K-12	629'07"									28990n										I	N	
No	0	P3302B002	PPS RX MS SAMP 14B ROUGHING COOLER	TB	2M	D-36A	L-12	630'04"									28990n										I	N	
No	8	P34F401A	PASS RX COOLANT SAMP FROM JET PUMP #5 SAMP ISO VLV	RB	1		D-10	593'00"									29428n										I	Y	
Yes	8	P34F401B	PASS RX COOLANT SAMP FROM JET PUMP #15 SAMP ISO VLV	RB	1		D-15	594'06"		X							29428n	Y	Y						Y		I	Y	
No	0	P34N401A	PASS VLV F401A POSITION SW	RB	1		D-11	593'00"									29428n										I	Y	
No	0	P34N401B	PASS VLV F401B POSITION SW	RB	1		D-15	594'06"									29428n										I	Y	
No	0	P34N402A	PASS VLV F401A POSITION SW	RB	1		D-11	593'00"									29428n										I	Y	
No	0	P34N402B	PASS VLV F401B POSITION SW	RB	1		D-15	594'06"									29428n										I	Y	
Yes	21	P4400A001	EECW DIV1 M/U WTR SURGE TANK	RB	2		A-15	618'03"		X									Y	Y					Y		I	Y	
Yes	21	P4400B001A	EECW DIV1 PLATE FRAME HX	RB	2	A-17	A-9	613'06"									29805y	Y	Y						Y		I	N	
Yes	21	P4400B001D	EECW DIV2 PLATE FRAME BACKUP HX	RB	2		D-10	613'06"										Y	Y						Y		I	N	
Yes	5	P4400C001B	EMERGENCY EQUIPMENT COOLING WATER DIV2 PUMP	RB	2	A-17	E-10	613'06"									33703y	Y	Y						Y		I	Y	
Yes	5	P4400C002A	EECW DIV1 M/U PUMP	RB	2		A-13	615'00"									30844y	Y	Y						Y		I	N	
Yes	5	P4400C002B	EECW DIV2 M/U PUMP	RB	2		D-10	615'00"									30844y	Y	Y						Y		I	N	
No	0	P4400F014A	EECW DIV1 PUMP C001A SUCTION VLV	RB	2		A-15	625'00"									30844n										I	N	
No	0	P4400F014B	EECW DIV2 PUMP C001B SUCTION VLV	RB	2		E-10	622'00"									30844n										I	N	
No	0	P4400F038	EECW DIV1 BATT ROOM SPACE COOLER T4100B033 RTRN CHECK VLV	AB	3		G-11	645'01"									28988n										I	Y	
No	0	P4400F1003A	EECW DIV1 M/U SURGE TANK TIE-IN ISO VLV	AB	5		H-13	580'02"									28456n										I	N	
No	0	P4400F1003B	EECW DIV2 M/U SURGE TANK TIE-IN ISO VLV	AB	5		G-13	587'10"									28456n										I	N	
No	0	P4400F101A	EECW DIV1 SPLY HDR DRAIN VLV	RB	B	A-01	C-13	574'03"									13687n										I	N	
No	0	P4400F1024	EECW DIV1 F607A OUTLET ISO CHECK VLV	RB	B	A-01	C-13	575'00"									29255y										I	N	
No	0	P4400F102A	EECW DIV1 SPLY TO RHR PUMPS & RB SUMP HX ISO VLV	RB	B	A-01	C-13	575'00"									13687n										I	N	
No	0	P4400F1033A	EECW DIV1 EECW PLATE FRAME HX B001A THERMAL RELIEF VLV	RB	2		A-9	623'04"									29805y										I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	0	P4400F1033B	EECW DIV2 EECW PLATE FRAME HX B001B THERMAL RELIEF VLV	RB	2		E-10	615'00"									29805y										I	N	
No	0	P4400F1034B	EECW DIV2 INLET ISO VLV FOR B001D EECW HX	RB	2		E-10	628'00"									29805y										I	N	
No	0	P4400F1035B	EECW DIV2 INLET ISO VLV FOR B001B EECW HX	RB	2		E-10	624'00"									29805y										I	N	
No	0	P4400F1036	EECW DIV1 RTRN TO EECW HX B001A INLET LINE VENT VLV	RB	2		A-12	632'03"									29805y										I	N	
No	0	P4400F1037	EECW DIV1 HX B001A INLET LINE VENT VLV	RB	2		A-10	634'03"									29805y										I	N	
No	0	P4400F1038	EECW DIV1 RTRN TO EECW HX B001A MAN DRAIN VLV	RB	2		A-10	618'06"									29805y										I	N	
No	0	P4400F1039	EECW DIV1 RTRN TO EECW HX B001A INLET LINE DRAIN VLV	RB	2		A-12	626'08"									29805y										I	N	
No	0	P4400F103A	EECW DIV1 SPLY TO RHR PUMPS AND RB SUMP HX INBOARD VENT VLV	RB	B		B-15	579'06"									29805y										I	N	
No	0	P4400F103B	EECW DIV2 SPLY TO RHR PUMPS VENT VLV	RB	B		C-10	578'06"									29805y										I	N	
No	0	P4400F1040	EECW DIV1 HX F001A INLET LINE DRAIN VLV	RB	2		A-9	623'04"									29805y										I	N	
No	0	P4400F1041	EECW DIV1 HX B001A OUTLET LINE VENT VLV	RB	2		A-12	632'03"									29805y										I	N	
No	0	P4400F1042	EECW DIV1 HX B001A OUTLET LINE VENT VLV	RB	2		A-9	633'00"									29805y										I	N	
No	0	P4400F1043	EECW DIV1 HX B001A OUTLET LINE DRAIN VLV	RB	2		A-10	618'06"									29805y										I	N	
No	0	P4400F1044	EECW DIV1 HX F001A OUTLET LINE DRAIN VLV	RB	2		A-12	625'03"									29805y										I	N	
No	0	P4400F1045	EECW DIV1 HX B001A OUTLET LINE DRAIN VLV	RB	2		A-9	616'11"									29805y										I	N	
No	0	P4400F1046	EECW DIV1 HX B001B INLET LINE DRAIN VLV	RB	2		E-10	615'00"									29805y										I	N	
No	0	P4400F1047	EECW DIV2 HX B001B INLET LINE VENT VLV	RB	2		E-10	621'11"									29805y										I	N	
No	0	P4400F1048	EECW DIV2 HX B001B INLET LINE VENT VLV	RB	2		E-9	623'03"									29805y										I	N	
No	0	P4400F1049	EECW DIV2 HX B001B INLET LINE DRAIN VLV	RB	2		E-10	615'00"									29805y										I	N	
No	0	P4400F1050	EECW DIV2 HX B001B OUTLET MAN DRAIN VLV	RB	2		E-9	614'11"									29805y										I	N	
No	0	P4400F1051	EECW DIV2 HX B001B OUTLET MAN FLUSHING CONN AND VENT VLV	RB	2		D-10	626'05"									29805y										I	N	
No	0	P4400F1052	EECW DIV1 SUCTION TO PUMP C001A MAN DRAIN VLV	RB	2		A-12	621'03"									29805y										I	N	
No	0	P4400F1053A	EECW DIV1 L416A CT MAN SOURCE VLV	RB	2		A-12	624'07"									29805y										I	N	
No	0	P4400F1053B	EECW DIV2 L416B CT MAN SOURCE VLV	RB	2		D-10	622'06"									29805y										I	N	
No	0	P4400F1055	EECW DIV2 RTRN TO HX B001D VENT VLV	RB	2		E-10	628'00"									29805y										I	N	
No	0	P4400F1056A	EECW DIV1 M/U PUMP RECIRC LINE INBOARD FLOW TEST VLV	RB	2		A-13	620'00"									30844n										I	N	
No	0	P4400F1056B	EECW DIV2 M/U PUMP RECIRC LINE INBOARD FLOW TEST VLV	RB	2		D-10	619'07"									30844n										I	N	
No	0	P4400F1057A	EECW DIV1 M/U PUMP RECIRC LINE OUTBOARD FLOW TEST VLV	RB	2		A-13	620'04"									30844n										I	N	
No	0	P4400F1057B	EECW DIV2 M/U PUMP RECIRC LINE OUTBOARD FLOW TEST VLV	RB	2		D-10	619'03"									30844n										I	N	
No	0	P4400F1059A	EECW DIV1 M/U PUMP BLEED LINE FLOW VLV	RB	2		A-13	621'06"									30844n										I	N	
No	0	P4400F1059B	EECW DIV2 M/U PUMP BLEED LINE FLOW VLV	RB	2		D-10	620'08"									30844n										I	N	
No	0	P4400F1060A	EECW DIV1 M/U PUMP TEST LINE INBOARD FLOW TEST VLV	RB	2		A-12	620'04"									30844n										I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	0	P4400F1060B	EECW DIV2 M/U PUMP TEST LINE INBOARD FLOW TEST VLV	RB	2		D-10	619'08"									30844n										I	N	
No	0	P4400F1061A	EECW DIV1 M/U PUMP TEST LINE OUTBOARD FLOW TEST VLV	RB			A-12	621'00"									30844n										I	N	
No	0	P4400F1061B	EECW DIV2 M/U PUMP TEST OUTBOARD FLOW TEST VLV	RB	2		D-10	619'04"									30844n										I	N	
No	0	P4400F1062A	EECW DIV1 M/U PUMP TEST LINE VENT VLV	RB	2		A-12	625'00"									30844n										I	N	
No	0	P4400F1062B	EECW DIV2 M/U PUMP TEST LINE VENT VLV	RB	2		D-10	622'08"									30844n										I	N	
No	0	P4400F1063A	EECW DIV1 M/U PUMP BLEED LINE VENT VLV	RB	2		A-12	625'00"									30844n										I	N	
No	0	P4400F1063B	EECW DIV2 M/U PUMP BLEED LINE VENT VLV	RB	2		D-10	622'08"									30844n										I	N	
No	0	P4400F111A	EECW DIV1 RB EQUIP SUMP HX G1101B002A RTRN CHECK VLV	RB	SB		A-17	546'06"									28988n										I	Y	
No	0	P4400F111B	EECW DIV2 RB EQUIP SUMP HX G1101B002B RTRN CHECK VLV	RB	SB		G-10	542'00"									28988n										I	Y	
No	0	P4400F114A	EECW DIV1 RHR PUMPS & RB SUMP HX RTRN ISO VLV	RB	B	A-01	C-13	575'09"									13687n										I	N	
No	0	P4400F115A	EECW DIV1 RTRN HDR INBOARD DRAIN VLV	RB	B	A-01	C-13	574'03"									13687n										I	N	
No	0	P4400F121A	EECW DIV1 TO DEMIN WTR SPLY M/U TANK A001 DRAIN VLV	RB	2		A-15	615'00"									28251n										I	N	
No	0	P4400F121B	EECW DIV2 TO DEMIN WTR SPLY M/U TANK A002 INBOARD DRAIN VLV	RB	2		E-9										28251n										I	N	
Yes	0	P4400F126A	EECW DIV1 M/U TANK A001 RLF VLV	RB	2		A-15	620'00"		X							28251n	Y	Y					Y			I	N	
Yes	0	P4400F126B	EECW DIV2 M/U TANK A002 RLF VLV	RB	2		D-10	620'00"		X							28251n	Y	Y					Y			I	N	
No	0	P4400F131A	EECW DIV1 ALT M/U WTR SPLY TO EECW M/U TANK A001 ISO VLV	RB	2		A-15	615'06"									28251n										I	Y	
No	0	P4400F131B	EECW DIV2 ALT M/U WTR SPLY TO EECW M/U TANK A002 ISO VLV	RB	2		D-10	613'06"									28251n										I	Y	
No	0	P4400F182	EECW DIV2 CRD PUMPS C1106C001A/B RTRN CHECK VLV	AB	B	B-02	G-10	569'06"									28988n										I	Y	
No	0	P4400F245A	EECW DIV1 SPLY HDR SAFTEY THERMAL RLF VLV	DW	1	A-15	235DEG	590'01"		X																	I	N	
No	0	P4400F245B	EECW DIV2 SPLY HDR SAFTEY THERMAL RLF VLV	DW	B		90DEG	580'11"		X																	I	N	
No	0	P4400F246	EECW DIV1 DW PENETRATION COOLERS RTRN CHECK VLV	DW	B		220DEG	582'06"									28988n										I	Y	
No	0	P4400F387A	EECW DIV1 N2 SPLY TO EECW M/U TANK A001 RLF VLV	RB	2		A-15										28251n										I	Y	
No	0	P4400F387B	EECW DIV2 N2 SPLY TO EECW M/U TANK A002 RLF VLV	RB	2	A-17	D-10	625'03"									28251n										I	Y	
No	0	P4400F397A	EECW DIV1 M/U PUMP SUCTION TEST VLV	RB	2		A-13	616'00"									30844n										I	N	
No	0	P4400F397B	EECW DIV2 M/U PUMP SUCTION TEST VLV	RB	2		D-10	615'09"									30844n										I	N	
Yes	7	P4400F504A	EECW DIV1 M/U PUMP DISCH AOV	RB	2		A-13	618'04"									30844n	Y	Y					Y			I	N	
Yes	7	P4400F504B	EECW DIV2 M/U PUMP DISCH AOV	RB	2		D-10	616'09"									30844n	Y	Y					Y			I	N	
No	8	P4400F601A	RBCCW DIV1 RTRN ISO MOV	RB	1		C-13	597'09"		X																	I	Y	
Yes	8	P4400F601A	RBCCW DIV1 RTRN ISO MOV	RB	1		C-13	597'09"									29183y	Y	Y					Y			I	Y	
No	8	P4400F601B	RBCCW DIV2 RTRN ISO MOV	RB	1	A-12	F-10	600'00"		X																	I	Y	
No	8	P4400F602A	EECW DIV1 M/U WTR TANK A001 OUTLET ISO MOV	RB	2	A-17	A-12	620'00"		X																	I	Y	
No	8	P4400F602B	EECW DIV2 M/U WTR TANK A002 OUTLET ISO MOV	RB	2	A-17	D-10	618'00"		X																	I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
Yes	8	P4400F603A	RBCCW DIV1 SPLY ISO MOV	RB	1		C-13	600'00"		X							29183y	Y	Y						Y		I	Y	
Yes	8	P4400F603A	RBCCW DIV1 SPLY ISO MOV	RB	1		C-13	600'00"									28140n	Y	Y						Y		I	Y	
Yes	8	P4400F603A	RBCCW DIV1 SPLY ISO MOV	RB	1		C-13	600'00"									34042 35380	Y	Y						Y		I	Y	
Yes	8	P4400F603B	RBCCW DIV2 SPLY ISO MOV	RB	1	A-12	F-10	600'00"									35621y	Y	Y						Y		I	Y	
No	8	P4400F604	EECW DIV2 SPLY TO CRD PUMPS ISO MOV	RB	B	A-12	H-11	569'06"		X																	I	Y	
No	8	P4400F605A	EECW DIV1 SPLY TO RB EQUIP SUMP HX G1101B002A ISO MOV	RB	SB		B-17	545'06"		X																	I	Y	
No	8	P4400F605B	EECW DIV2 SPLY TO RB EQUIP SUMP HX G1101B002B ISO MOV	RB	SB	A-12	G-10	542'00"		X																	I	Y	
Yes	8	P4400F606A	EECW DIV1 DW SPLY OUTBOARD ISO MOV	RB	B	A-01	AZ-30	575'00"		X							13687y	Y	Y						Y		I	Y	
Yes	8	P4400F606A	EECW DIV1 DW SPLY OUTBOARD ISO MOV	RB	B	A-01	AZ-30	575'00"									35380n	Y	Y						Y		I	Y	
Yes	8	P4400F606B	EECW DIV2 SPLY TO DW EQUIP OUTBOARD ISO MOV	RB	B	A-01	D-10	575'00"		X							13687y	Y	Y						Y		I	Y	
Yes	8	P4400F606B	EECW DIV2 SPLY TO DW EQUIP OUTBOARD ISO MOV	RB	B	A-01	D-10	575'00"									35380n	Y	Y						Y		I	Y	
Yes	8	P4400F607A	EECW DIV1 DW RTRN OUTBOARD ISO MOV	RB	B	A-01	C-13	578'06"									35380n	Y	Y						Y		I	Y	
Yes	8	P4400F607B	EECW DIV2 DW EQUIP OUTBOARD RTRN ISO MOV	RB	B	A-01	096DEG	578'06"									35380n	Y	Y						Y		I	Y	
Yes	8	P4400F608	EECW DIV2 SPLY TO DW SUMP HX ISO MOV	DW	B	A-12	79DEG	580'06"		X							28140n	N		Y	Y			Y	Y		I	Y	
Yes	8	P4400F613	EECW DIV1 SPLY TO BATT ROOM SPACE COOLER T4100B033 ISO MOV	AB	3	B-20	H-11	645'00"		X							28140n	Y	Y						Y		I	Y	
Yes	8	P4400F614	EECW DIV1 SPLY TO DW PENETRATION COOLERS ISO MOV	DW	B		240DEG	582'06"		X							28140n	N		Y	Y			Y	Y		I	Y	
Yes	8	P4400F615	EECW DIV2 DW EQUIP INBOARD RTRN ISO MOV.	DW	B	A-12	100DEG	579'00"									28742 29183	N		Y	Y			Y	Y		I	Y	
No	0	P4400F617A	EECW DIV1 INLET ISO VLV FOR EECW HX B001A MAN GATE ISO VLV	RB	2		A-12	630'09"									29805y										I	N	
No	0	P4400F617B	EECW DIV2 INLET ISO VLV FOR EECW HX B001B MAN GATE ISO VLV	RB	2		E-10	615'00"									29805y										I	N	
No	0	P4400F618A	EECW DIV1 OUTLET ISO VLV FOR EECW HX B001A MAN GATE ISO VLV	RB	2		A-12	625'03"									29805y										I	N	
No	0	P4400F618B	EECW DIV2 OUTLET ISO VLV FOR EECW HX B001B MAN GATE ISO VLV	RB	2		D-10	622'06"									29805y										I	N	
No	0	P4400F619A	EECW DIV1 INLET ISO VLV FOR EECW HX B001C MAN GATE ISO VLV	RB	2		A-12	626'00"									29805y										I	N	
No	0	P4400F619B	EECW DIV 2 HX B001B INLET LINE SPARE BRANCH CONNECTION ISOLATION VALVE	RB	2		E-10	615'00"									29805y										I	N	
No	0	P4400F620A	EECW DIV1 M/U PUMP INLET VENT VLV	RB	2		A-12	624'00"									30844n										I	N	
No	0	P4400F620B	EECW DIV2 M/U PUMP INLET VENT VLV	RB	2		D-10	622'09"									30844n										I	N	
No	0	P4400F623A	EECW DIV1 M/U PUMP DISCH TEST VLV	RB	2		A-13	616'03"									30844n										I	N	
No	0	P4400F623B	EECW DIV2 M/U PUMP DISCH TEST VLV	RB	2		D-10	616'02"									30844n										I	N	
No	0	P4400F624A	EECW DIV1 M/U PUMP INBOARD TEST VLV	RB	2		A-13	618'00"									30844n										I	N	
No	0	P4400F624B	EECW DIV2 M/U PUMP INBOARD TEST VLV	RB	2		D-10	616'06"									30844n										I	N	
No	0	P4400F625A	EECW DIV1 M/U PUMP DISCH CHECK VLV	RB	2		A-13	618'04"									30844n										I	N	
No	0	P4400F625B	EECW DIV2 M/U PUMP DISCH CHECK VLV	RB	2		D-10	616'09"									30844n										I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	0	P4400F626A	EECW DIV1 M/U PUMP OUTBOARD TEST VLV	RB	2		A-13	618'00"									30844n										I	N	
No	0	P4400F626B	EECW DIV2 M/U PUMP OUTBOARD TEST VLV	RB	2		D-10	616'06"									30844n										I	N	
No	0	P4400F628A	EECW DIV1 M/U PUMP DRAIN VLV	RB	2		A-15	618'09"									30844n										I	N	
No	0	P4400F628B	EECW DIV2 M/U PUMP DRAIN VLV	RB	2		D-10	615'05"									30844n										I	N	
No	0	P4400F629A	EECW DIV1 M/U TANK SPLY ISO VLV	RB	2		A-15	619'00"									30844n										I	N	
No	0	P4400F630A	EECW DIV1 M/U PUMP DISCH VLV	RB	2		A-13	617'04"									30844n										I	N	
No	0	P4400F630B	EECW DIV2 M/U PUMP DISCH VLV	RB	2		D-10	616'09"									30844n										I	N	
No	0	P4400F631A	EECW DIV1 M/U PUMP RECIRC LINE VENT VLV	RB	2		A-12	623'06"									30844n										I	N	
No	0	P4400F631B	EECW DIV2 M/U PUMP RECIRC LINE VENT VLV	RB	2		D-10	622'09"									30844n										I	N	
No	0	P4400F632A	EECW DIV1 M/U PUMP RECIRC LINE FLOW VLV	RB	2		A-13	617'07"									30844n										I	N	
No	0	P4400F632B	EECW DIV2 M/U PUMP RECIRC LINE FLOW VLV	RB	2		D-10	617'03"									30844n										I	N	
No	0	P4400F633A	EECW DIV1 M/U PUMP TEST LINE ISO VLV	RB	2		A-15	621'06"									30844n										I	N	
No	0	P4400F633B	EECW DIV2 M/U PUMP TEST LINE ISO VLV	RB	2		D-10	617'03"									30844n										I	N	
No	0	P4400F634A	EECW DIV1 M/U PUMP RECIRC LINE ISO VLV	RB	2		A-12	621'00"									30844n										I	N	
No	0	P4400F966A	EECW DIV1 F606A INLET ISO VLV	RB	B	A-01	C-13	575'00"									13687n										I	N	
No	0	P4400F966B	EECW DIV2 F606B INLET ISO VLV	RB	B	A-01	D-10	575'00"									13687n										I	N	
No	0	P4400F967A	EECW DIV1 F607A OUTET ISO VLV	RB	B	A-01	C-13	575'00"									13687n										I	N	
No	0	P4400F967B	EECW DIV2 F607B OUTLET ISO VLV	RB	B	A-01	D-10	575'00"									13687n										I	N	
No	0	P4400F968	EECW DIV2 SPLY HDR DRAIN VLV	RB	B	A-01	D-10	574'03"									13687n										I	N	
No	0	P4400F970	EECW DIV2 RTRN HDR DRAIN VLV	RB	B	A-01	D-10	574'03"									13687n										I	N	
No	0	P4400F972A	EECW DIV1 DEMIN WTR TO M/U TANK A001 CHECK VLV	RB	2												28251n										I	N	
No	0	P4400F972B	EECW DIV2 DEMIN WTR TO M/U TANK A002 CHECK VLV	RB	2												28251n										I	N	
No	0	P4400F973A	EECW DIV1 N2 SPLY TO EECW M/U TANK A001 CHECK VLV	RB	2												28251n										I	N	
No	0	P4400F973B	EECW DIV2 N2 SPLY TOEECW M/U TANK A002 CHECK VLV	RB	2												28251n										I	N	
No	0	P4400F974A	EECW DIV1 N2 SPLY TO EECW M/U TANK A001 CHECK VLV	RB	2												28251n										I	Y	
No	0	P4400F974B	EECW DIV2 N2 SPLY TO EECW M/U TANK A002 CHECK VLV	RB	2												28251n										I	Y	
No	0	P4400F976A	EECW DIV1 ALT M/U WTR SPLY TO EECW M/U TANK A001 CHECK VLV	RB	2												28251n										I	Y	
No	0	P4400F977A	EECW DIV1 ALT N2 SPLY TO EECW M/U TANK A001 ISO VLV	RB	2												28251n										I	Y	
No	0	P4400F977B	EECW DIV2 ALT N2 SPLY TO EECW M/U TANK A002 ISO VLV	RB	2												28251n										I	Y	
No	0	P4400F978A	EECW DIV1 ALT N2 SPLY TO EECW M/U TANK A001 CHECK VLV	RB	2												28251n										I	N	
No	0	P4400F979A	EECW DIV1 ALT N2 SPLY TO EECW M/U TANK A001 CHECK VLV	RB	2												28251n										I	N	
No	0	P4400F983A	EECW DIV1 N2 SPLY TO EECW M/U TANK A001 TEST VLV	RB	2												28251n										I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	0	P4400F983B	EECW DIV2 N2 SPLY TO EECW M/U TANK A002 TEST VLV	RB	2												28251n										I	N	
No	0	P4400F984A	EECW DIV1 N2 SPLY TO EECW M/U TANK A001 TEST VLV	RB	2												28251n										I	N	
No	0	P4400F984B	EECW DIV2 N2 SPLY TO EECW M/U TANK A002 TEST VLV	RB	2												28251n										I	N	
No	0	P4400F985A	EECW DIV1 ALT N2 SPLY TO EECW M/U TANK A001 RLF VLV	RB	2												28251n										I	N	
No	0	P4400F988A	EECW DIV1 ALT N2 SPLY TO EECW M/U TANK A001 OUTBOARD TEST VLV	RB	2												28251n										I	N	
No	0	P4400F989A	EECW DIV1 ALT N2 SPLY TO EECW M/U TANK A001 TEST VLV	RB	2												28251n										I	N	
No	0	P4400F990A	EECW DIV1 ALT N2 SPLY TO EECW M/U TANK A001 INBOARD TEST VLV	RB	2												28251n										I	N	
No	DS	P4400G011A	EECW DIV1 NIAS CA TO TCV F400A FLEXIBLE METAL HOSE	RB	2	A-17	A-12	618'00"									29792y										I	N	
No	DS	P4400G011B	EECW DIV2 NIAS CA TO TCV F400B FLEXIBLE METAL HOSE	RB	2	A-17	F-10	618'00"									29792y										I	N	
No	DS	P4400G012A	EECW DIV1 NIAS SPLY AIR TO POSITIONER ON TCV F400A FLEXIBLE METAL HOSE	RB	2	A-17	A-12	618'00"									29792y										I	N	
No	DS	P4400G012B	EECW DIV2 NIAS SPLY AIR TO POSITIONER ON TCV F400B FLEXIBLE METAL HOSE	RB	2	A-17	F-10	618'00"									29792y										I	N	
No	0	P4400M058A	EECW M/U PUMP C002A PNL H21P472 CTRL SW	RB	2		A-15	613'06"									30844n										I	N	
No	0	P4400M058B	EECW M/U PUMP C002B PNL H21P473 CTRL SW	RB	2		D-10	613'06"									30844n										I	N	
No	0	P44F200A	EECW DIV1 SPLY AIR TO TCV F400A PRESS CTRL VLV	RB	2	A-17	A-12	615'00"									29792y										I	N	
No	0	P44F200B	EECW DIV2 SPLY AIR TO TCV F400B PRESS CRTL VLV	RB	2	A-17	F-10	615'00"									29792y										I	N	
No	0	P44F201A	EECW DIV1 M/U PUMP PRESS CRTL VLV	RB	2		A-13	618'04"									30844y										I	N	
No	0	P44F201B	EECW DIV2 M/U PUMP PRESS CRTL VLV	RB	2		D-10	616'09"									30844y										I	N	
No	8	C11F160B	CRD DIV2 SOV	RB	1	A-12	G-11	593'00"		X	X		X					Y	Y						Y		I	Y	MMR
No	0	P44F986A	EECW DIV1 ALT N2 SPLY TO EECW M/U TANK A001 PRESS CRTL VLV	RB	2		A-13	619'00"									28251n										I	Y	
No	0	P44F987A	EECW DIV1 ALT N2 SPLY TO EECW M/U TANK A001 PRESS CRTL VLV	RB	2		A-13	619'00"									28251n										I	Y	
No	0	P44K400A	EECW DIV1 E/P FOR TEMP CRTL VLV F400A	RB	2		A-15	613'06"									29792y										I	N	
No	DS	P44K800A	EECW DIV1 HX B001A / B001C TEMP CTRLR	AB	3		G-13	643'06"		X							29792y										I	N	
No	DS	P44K800B	EECW DIV2 HX B001B / B001D TEMP CTRLR	AB	3		F-13	643'06"		X							29792y										I	N	
No	0	P44K803A	EECW DIV1 HX B001A / B001C OUTLET TEMP SIG CND ELECTRIC	AB	2	B-15	F-16	613'06"									29792y										I	N	
No	0	P44K803B	EECW DIV2 HX B001B / B001D OUTLET TEMP SIG CND ELECTRIC	AB	2	B-15	F-14	613'06"									29792y										I	N	
No	20	P44K807A	EECW DIV1 POSITION XMTR N422A SIGNAL CONDITIONING ISOLATOR	AB	2	B-15	F-16	613'06"									29792y										I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	20	P44K807B	EECW DIV2 POSITION XMTR N422B SIGNAL CONDITIONING ISOLATOR	AB	2	B-15	B-15	613'06"									29792y										I	N	
No	DS	P44L435A	EECW DIV1 FLOW ELEMENT N444A FLOW TAP HI	RB	2		A-13	621'00"									30844n										I	N	
No	DS	P44L435B	EECW DIV2 FLOW ELEMENT N444B FLOW TAP HI	RB	2		D-10	620'03"									30844n										I	N	
No	DS	P44L436A	EECW DIV1 FLOW ELEMENT N444A FLOW TAP LO	RB	2		A-13	621'00"									30844n										I	N	
No	DS	P44L436B	EECW DIV2 FLOW ELEMENT N444B FLOW TAP LO	RB	2		D-10	620'03"									30844n										I	N	
No	DS	P44L437A	EECW DIV1 FLOW ELEMENT N445A FLOW TAP HI	RB	2		A-13	621'06"									30844n										I	N	
No	DS	P44L437B	EECW DIV2 FLOW ELEMENT N445B FLOW TAP HI	RB	2		D-10	620'03"									30844n										I	N	
No	DS	P44L438A	EECW DIV1 FLOW ELEMENT N445A FLOW TAP LO	RB	2		A-13	621'06"									30844n										I	N	
No	DS	P44L438B	EECW DIV2 FLOW ELEMENT N445B FLOW TAP LO	RB	2		D-10	620'03"									30844n										I	N	
Yes	19	P44N401B	EECW HX B001B / B001D RTRN T/C	RB	2		D-10	622'06"		X							29805y	Y	Y						Y		I	N	
No	18	P44N410B	M/U TANK A002 PRESS SW ELECTRIC	RB	2	A-17	D-10	613'06"									28251n										I	N	
No	DS	P44N423A	EECW DIV1 TCV F400A POSITIONER EXCHANGER B001A / B001C DIV1	RB	2	A-17	A-12	618'00"									29792y										I	N	
No	DS	P44N423B	EECW DIV2 TCV F400B POSITIONER EXCHANGER B001B / B001D DIV2	RB	2	A-17	F-10	618'00"									29792y										I	N	
No	18	P44N425A	SPLY AND RTRN OF DIV1 EECW PDIS	RB	1	A-12	C-13	583'06"		X																	I	N	
No	18	P44N426A	SPLY AND RTRN OF DIV1 EECW PDIS	RB	1	A-12	C-13	583'06"		X																	I	N	
No	18	P44N426B	SPLY AND RTRN OF DIV2 EECW PDIS	RB	1	A-12	F-11	583'06"		X																	I	N	
No	DS	P44N444A	EECW DIV1 M/U PUMP MIN LINE FLOW ELEMENT	RB	2		A-13	621'00"									30844n										I	N	
No	DS	P44N444B	EECW DIV2 M/U PUMP MIN LINE FLOW ELEMENT	RB	2		D-10	620'03"									30844n										I	N	
No	DS	P44N445A	EECW DIV1 M/U PUMP TEST LINE FLOW ELEMENT	RB	2		A-13	621'06"									30844n										I	N	
No	DS	P44N445B	EECW DIV2 M/U PUMP TEST LINE FLOW ELEMENT	RB	2		D-10	620'03"									30844n										I	N	
No	18	P44N446B	EECW DIV2 MAKEUP PUMP P4400C002A SUCTION PRESS SW (LOW TRIP)	RB	2		D-10	620'08"									30844n										I	N	
No	DS	P4500C002A	EMERGENCY EQUIPMENT SERVICE WATER SOUTH PUMP	RHR	1		E-3	590'00"		X																	I	Y	
Yes	6	P4500C002A	EMERGENCY EQUIPMENT SERVICE WATER SOUTH PUMP	RHR	1		E-3	590'00"										Y	Y						Y		I	Y	
No	DS	P4500C002B	EMERGENCY EQUIPMENT SERVICE WATER NORTH PUMP	RHR	1		E-11	590'00"		X																	I	Y	
No	0	P4500F008A	EESW GSW SOURCE VLV CAPPED AND SPARED	RHR	1		F-3	592'06"									29792y										I	Y	
No	0	P4500F008B	EESW GSW SOURCE VLV CAPPED AND SPARED	RHR	1		F-11	592'06"									29792y										I	Y	
No	0	P4500F011A	EESW DIV1 INLET ISO VLV FOR EECW HX P4400B001A MAN BUTTERFLY ISO VLV	RB	2		A-12	622'06"									29805y										I	N	
No	0	P4500F011B	EESW DIV2 INLET ISO VLV FOR EECW HX P4400B001B MAN BUTTERFLY ISO VLV	RB	2		C-10	622'06"									29805y										I	N	
No	0	P4500F012A	EESW DIV1 OUTLET ISO VLV FOR EECW HX P4400B001A MAN BUTTERFLY ISO VLV	RB	2		A-12	614'09"									29805y										I	N	
No	0	P4500F012B	EESW DIV2 OUTLET ISO VLV FOR EECW HX P4400B001B MAN BUTTERFLY ISO VLV	RB	2		E-9	615'00"									29805y										I	N	
No	0	P4500F013A	EESW DIV1 OUTLET ISO VLV FOR EECW HX P4400B001C MAN BUTTERFLY ISO VLV	RB	2		A-12	614'09"									29805y										I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	0	P4500F013B	EESW DIV2 OUTLET ISO VLV FOR EECW HX P4400B001D MAN BUTTERFLY ISO VLV	RB	2		E-10	615'00"									29805y										I	N	
No	0	P4500F015A	EESW DIV1 M/U PUMP P4400C002A TEST LINE ISO VLV	RB	2		A-12	625'00"									30844n										I	N	
No	0	P4500F015B	EESW DIV2 M/U PUMP P4400C002A TEST LINE ISO VLV	RB	2		D-10	622'05"									30844n										I	N	
No	0	P4500F144A	EECW/EESW TCV (F400A) INLET ISO VLV	RB	2		A-12	614'09"									29805y										I	N	
No	0	P4500F144B	EECW/EESW TCV (F400B) INLET ISO VLV	RB	2		F-10	615'00"									29805y										I	N	
No	0	P4500F146A	EECW/EESW TCV (F400A) OUTLET ISO VLV	RB	2		A-12	614'09"									29805y										I	N	
No	0	P4500F146B	EECW/EESW TCV (F400B) OUTLET ISO VLV	RB	2		F-10	615'00"									29805y										I	N	
No	0	P4500F147A	EESW/EECW TCV (F400A) BYP RTRN VLV	RB	1		A-12	614'09"									29805y										I	N	
No	0	P4500F147B	EESW/EECW TCV (F400B) BYP RTRN VLV	RB	2		F-10	615'00"									29805y										I	N	
No	0	P4500F181A	EESW DIV1 EECW PLATE FRAME HX P4400B001A THERMAL RELIEF VLV	RB	2		A-9	618'03"									29805y										I	N	
No	0	P4500F181B	EESW DIV2 HX P4400B001B THERMAL RELIEF VLV	RB	2		E-9	617'00"									29805y										I	N	
No	0	P4500F182A	EESW DIV1 OUTLET ISO VLV FOR AIP P4400B001 EECW HX	RB	2		A-13	621'00"									29805y										I	N	
No	0	P4500F183A	EESW DIV1 OUTLET ISO VLV FOR P44F400A EECW TEMP CRTL VLV MAN ISO VLV	RB	2		A-13	618'09"									29805y										I	N	
No	0	P4500F184A	EESW TO EECW DIV1 HEAD TANK ALTERNATE M/U SPLY MAN ISO VLV	RB	2		A-12	623'06"									29805y										I	N	
No	0	P4500F184B	EESW TO EECW DIV2 HEAT TANK ALTERNATE M/U SPLY MAN ISO VLV	RB	2		D-10	619'04"									29805y										I	N	
No	0	P4500F185	EECW DIV2 SPLY TO EECW P4400B001B MAN FLUSHING CONN AND DRAIN VLV	RB	2		E-9	617'00"									29805y										I	N	
No	0	P4500F186	EESW DIV2 HX P4400B001B OUTLET LINE DRAIN VLV	RB	2		E-9	614'00"									29805y										I	N	
No	0	P4500F187	EESW DIV2 HX P4400B001B OUTLET LINE DRAIN VLV	RB	2		E-9	614'00"									29805y										I	N	
No	0	P4500F189	EESW DIV1 EXCHANGER P4400B001A INLET LINE VENT VLV	RB	2		A-9	637'03"									29805y										I	N	
No	0	P4500F190	EESW DIV1 SPLY TO EECW HX P4400B001A MAN FLUSHG CONN/DRN VLV	RB	2		A-12	626'09"									29805y										I	N	
No	0	P4500F191	EESW DIV1 SPLY TO EECW HX P4400B001A MAN FLUSHG CONN/DRN VLV	RB	2		A-9	616'11"									29805y										I	N	
No	0	P4500F192	EESW DIV1 HX P4400B001A OUTLET LINE VENT VLV	RB	2		A-12	625'03"									29805y										I	N	
No	0	P4500F193	EESW DIV1 HX P4400B001A OUTLET LINE VENT VLV	RB	2		A-12	633'03"									29805y										I	N	
No	0	P4500F194	EESW DIV1 HX P4400B001A OUTLET LINE VENT VLV	RB	2		A-10	636'00"									29805y										I	N	
No	0	P4500F195	EESW DIV1 HX P4400F001A OUTLET LINE DRAIN VLV	RB	2		A-12	614'09"									29805y										I	N	
No	0	P4500F196	EESW DIV1 HX P4400B001A OUTLET LINE DRAIN VLV	RB	2		A-10	618'06"									29805y										I	N	
No	0	P4500F197	EESW DIV1 EECW HX P4400B001A OUTLET MAN FLSHG CONN AND DRAIN VLV	RB	2		A-12	618'09"									29805y										I	N	
No	0	P4500F198	EESW DIV1 EECW HX P4400B001A OUTLET MAN FLSHG CONN AND DRAIN VLV	RB	2		A-12	623'04"									29805y										I	N	
No	0	P4500F199	EESW DIV2 EECW HX P4400B001B OUTLET MAN GATE FLUSHING CONN/VENT VLV	RB	2		E-9	623'03"									29805y										I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	0	P4500F200	EESW DIV2 SPLY TO EECW HX P4400B001B MAN FLUSHING CONN/VENT VLV	RB	2		C-10	622'06"									29805y										I	N	
No	0	P4500F201	EESW DIV1 HX P4400B001A OUTLET LINE DRAIN VLV	RB	2		A-12	614'09"									29805y										I	N	
No	0	P4500F202	EESW DIV1 HX P4400B001C OUTLET LINE DRAIN VLV	RB	2		A-12	614'09"									29805y										I	N	
No	0	P4500F205A	EESW DIV1 M/U PUMP RECIRC LINE ISO VLV	RB	2		A-12	624'00"									30844n										I	N	
No	0	P4500F205B	EESW DIV2 M/U PUMP RECIRC LINE ISO VLV	RB	2		D-10	622'06"									30844n										I	N	
No	0	P4500F206A	EESW DIV1 BLEED LINE RTRN HDR ISO VLV	RB	2		A-12	625'00"									30844n										I	N	
No	0	P4500F206B	EESW DIV2 BLEED LINE RTRN HDR ISO VLV	RB	2		D-10	622'05"									30844n										I	N	
No	0	P45F400	EESW DIV2 SERV WTR PUMP C002B MIN FLOW BACK PRESS LIMITING VLV	RHR	1		E-11	593'06"									29792y										I	Y	
No	0	P45F401	EESW DIV1 SERV WTR PUMP C002A MIN FLOW BACK PRESS LIMITING VLV	RHR	1		F-3	593'06"									29792y										I	Y	
No	DS	P45L554A	RHR EESW PUMP C002A PT (SPARE)	RHR	1		F-3	592'06"									29792y										I	N	
No	DS	P45L554B	RHR EESW PUMP C002B PT (SPARE)	RHR	1		F-11	592'06"									29792y										I	N	
No	18	P45N415A	EESW TO HX P4400B001A / P4400B001C DP XMTR	RB	2		A-13	615'06"		X																	I	N	
No	18	P45N415B	EESW TO HX P4400B001B / P4400B001D DP XMTR	RB	2		A-12	616'11"		X																	I	N	
No	0	P5000F1093A	NIAS DIV1 SPLY AIR TO POSITIONER ON NEW TCV P44F400A MAN ISO VLV	RB	2	A-17	A-12	623'03"									29792y										I	N	
No	0	P5000F1093B	NIAS DIV2 SPLY AIR TO POSITIONER ON NEW TCV P44F400B MAN ISO VLV	RB	2	A-17	D-10	624'04"									29792y										I	N	
No	0	P5000F1094A	NIAS DIV1 CA TO POSITIONER ON NEW TCV P44F400A MAN ISO VLV	RB	2	A-17	A-12	623'03"									29792y										I	N	
No	0	P5000F1094B	NIAS DIV2 CA TO POSITIONER ON NEW TCV P44F400B MAN ISO VLV	RB	2	A-17	D-10	619'06"									29792y										I	N	
No	0	P5000F1095A	NIAS DIV1 SPLY AIR TO POSITIONER ON ABANDONED TCV P44F400A MAN ISO VLV	RB	2	A-17	A-12	623'03"									29792y										I	N	
No	0	P5000F1095B	NIAS DIV2 SPLY AIR TO POSITIONER ON ABANDONED TCV P44F400B MAN ISO VLV	RB	2	A-17	D-10	624'04"									29792y										I	N	
No	0	P5000F1096A	NIAS DIV1 CA TO POSITIONER ON ABANDONED TCV P44F400A MAN ISO VLV	RB	2	A-17	A-12	623'03"									29792y										I	N	
No	0	P5000F1096B	NIAS DIV2 CA TO POSITIONER ON ABANDONED TCV P44F400B MAN ISO VLV	RB	2	A-17	D-10	624'04"									29792y										I	N	
No	0	P5000F1097	NIAS DIV1 TO E/P CONVERTER P44K400A MAN ISO VLV	RB	2	A-17	A-15	613'06"									29792y										I	N	
No	0	P5000F207A	NIAS NORTH CONTROL AIR COMP D001 AFTERCOOLER RELIEF VLV							X																	I	Y	
No	0	P5000F207B	NIAS SOUTH CONTROL AIR COMP D002 AFTERCOOLER RELIEF VLV							X																	I	Y	
No	0	P5000F223A	CONTROL AIR DIV I NON-IAS SUPPLY RECEIVER P5002A001 RELIEF VLV	AB	B	B-03	G-15	564'00"		X																	I	Y	
No	0	P5000F223B	NIAS CONTROL AIR RECEIVER P5002A002 RELIEF VLV	AB	B		H-12	564'00"		X																	I	Y	
No	0	P5000F2246A	NIAS FILTER P5002D037A INLET VALVE	AB	B	B-03	H-15	555'00"									34625n										I	N	
No	0	P5000F2246B	NIAS FILTER P5002D037B INLET VALVE	AB	B	B-03	H-12	555'00"									34625n										I	N	
No	0	P5000F2247A	NIAS FILTER P5002D037A OUTLET VALVE	AB	B	B-03	H-15	557'00"									34625n										I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	0	P5000F2247B	NIAS FILTER P5002D037B OUTLET VALVE	AB	B	B-03	H-12	557'00"									34625n										I	N	
No	0	P5000F2248A	NIAS FILTER P5002D038A INLET VALVE	AB	B	B-03	H-15	555'00"									34625n										I	N	
No	0	P5000F2248B	NIAS FILTER P5002D038B INLET VALVE	AB	B	B-03	H-12	555'00"									34625n										I	N	
No	0	P5000F2249A	NIAS FILTER P5002D038A OUTLET VALVE	AB	B	B-03	H-15	555'00"									34625n										I	N	
No	0	P5000F2249B	NIAS FILTER P5002D038B OUTLET VALVE	AB	B	B-03	H-12	555'00"									34625n										I	N	
No	0	P5000F362C	IAS DIV1 ISO VLV (SPARE)	RHR	1		F-3	590'00"									29792y										I	N	
No	0	P5000F362H	IAS DIV2 ISO VLV (SPARE)	RHR	1		F-11	590'00"									29792y										I	N	
No	7	P5000F440	NIAS STATION AIR TO CONTROL AIR ISO AOV	AB	B	B-03	H-15			X																	I	Y	
No	7	P5000F441	NIAS STATION AIR TO CONTROL AIR ISO AOV	AB	B	B-03	H-12			X																	I	Y	
No	0	P5000F539A	NIAS NORTH CONTROL AIR DRYER PREFILTER #P5002D014 DRAIN VLV	AB	B	B-03	G-15	551'08"									26513n										I	N	
No	0	P5000F539B	NIAS SOUTH CONTROL AIR DRYER PREFILTER P5002D015 DRAIN VLV	AB	B	B-03	G-11	551'08"									26513n										I	N	
No	0	P5000F540A	NIAS NORTH CONTROL AIR DRYER PREFILTER #P5002D014 AUTO DRAIN ISO VLV	AB	B	B-03	G-15	551'08"									26513n										I	N	
No	0	P5000F540B	NIAS NORTH CONTROL AIR DRYER PREFILTER #P5002D015 AUTO DRAIN ISO VLV	AB	B	B-03	G-11	551'08"									26513n										I	N	
No	0	P5000F541A	CTRL AIR NON-INTERRUPTABLE N CTRL AIR DRYER W CHAMBER RELIEF VLV	AB	B	B-03	G-15			X																	I	N	
No	0	P5000F541B	CTRL AIR NON-INTERRUPTABLE S CTRL AIR DRYER E CHAMBER RELIEF VLV	AB	B	B-03	G-11			X																	I	N	
No	0	P5000F542A	CTRL AIR NON-INTERRUPTABLE N CTRL AIR DRYER E CHAMBER RELIEF VLV	AB	B	B-03	G-15			X																	I	N	
No	0	P5000F542B	CTRL AIR NON-INTERRUPTABLE S CTRL AIR DRYER W CHAMBER RELIEF VLV	AB	B	B-03	G-11			X																	I	N	
Yes	21	P5002A002	CA SOUTH RECEIVER	AB	SB		G-11	540'00"		X								Y	Y					Y		I	N	
No	21	P5002A004A	CA DIV1 NIAS RB RAILROAD INTERIOR DOOR R1-2 SEAL VOLUME CHAMBER	RB	1		A-10	588'00"		X																I	N	
No	21	P5002A004B	CA DIV2 NIAS RB RAILROAD EXTERIOR DOOR R1-1 SEAL VOLUME CHAMBER	RB	1		A-10	588'00"		X																I	N	
No	21	P5002B004	CA NORTH COMPRESSOR AFTERCOOLER	AB	SB		G-15	551'00"		X																I	N	
No	21	P5002B005	CA SOUTH COMPRESSOR AFTERCOOLER	AB	SB		G-11	551'00"		X																I	N	
Yes	12	P5002D002	CA SOUTH COMPRESSOR	AB	B	B-03	G-11	551'00"		X								Y	Y					Y		I	Y	
No	0	P5002D012	CA NORTH DRYER.	AB	B	B-03	G-15	551'00"		X																I	N	
No	0	P5002D015	CA SOUTH DRYER PREFILTER	AB	B	B-03	G-11	552'08"		X																I	N	
No	0	P5002D016	CA NORTH DRYER AFTERFILTER	AB	B	B-03	G-15	551'00"		X																I	N	
No	0	P5002D017	CA SOUTH DRYER AFTERFILTER	AB	B	B-03	G-15	551'00"		X																I	N	
No	0	P5002D029A	NIAS NORTH AFTERCOOLER (P5002B004) DRAIN TRAP	AB	B		H-15	553'00"		X																I	N	
No	0	P5002D029B	NIAS SOUTH AFTERCOOLER (P5002B005) DRAIN TRAP	AB	B		H-15	553'00"		X																I	N	
No	8	P50F433A	NORTH CA COMP P5002D001 UNLOADER CYLINDER DIV1 SOLENOID VLV	RB	B		G-17	555'06"		X																I	N	
No	8	P50F433B	SOUTH CA COMP P5002D002 UNLOADER CYLINDER DIV2 SOLENOID VLV	RB	B		G-12	566'00"		X																I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	8	P50F511A	CA DIV1 NORTH DRYER P5002D012 LEFT CHAMBER INLET VLV SOLENOID VLV	AB	B		H-15	551'00"		X																I	N	
No	8	P50F511B	CMPRSD AIR S DEHYD UNIT DRYER SUB-UNIT P5002D013 LEFT INLET CYL DIV2 SOL VLV	AB	B		H-12	558'00"		X																I	N	
No	8	P50F512A	CA DIV1 NORTH DRYER P5002D012 RIGHT CHAMBER INLET VLV SOLENOID VLV	AB	B		H-15	551'00"		X																I	N	
No	8	P50F512B	CMPRSD AIR S DEHYD UNIT DRYER P5002D013 RIGHT INLET VLV DIV2 SOL VLV	AB	B		H-12	558'00"		X																I	N	
No	8	P50F513A	CA DIV1 (NIAS) N DEHYD UNIT DRYER P5002D012 LEFT EXHAUST VLV CYL SOL VLV	AB	B		H-16	558'00"		X																I	N	
No	8	P50F513B	CMPRSD AIR S DEHYD UNIT DRYER SUB-UNIT P5002D013 LEFT EXH VLV CYL DIV2 SOL VLV	AB	B		H-12	558'00"		X																I	N	
No	8	P50F514A	CA DIV1 N DEHYD UNIT DRYER SUB-UNIT P5002D012 RIGHT EXHAUST VLV CYL SOL VLV	RB	B		H-16	558'00"		X																I	N	
No	8	P50F514B	CMPRSD AIR S DEHYD UNIT DRYER SUB-UNIT P5002D013 RIGHT EXH CYL DIV2 SOL VLV	AB	B		H-12	558'00"		X																I	N	
No	8	P50F515A	CA DIV1 NORTH DRYER P5002D014 PREFILTER DRAIN SOLENOID VLV	AB	B		H-15	551'00"		X																I	N	
No	8	P50F515B	CA DIV2 SOUTH DRYER P5002D015 PREFILTER DRAIN SOLENOID VLV	AB	B		H-12	551'06"		X																I	N	
No	8	P50F516A	CA DIV1 NIAS ISO VLV P5000F440 SOLENOID VLV	AB	B		H-17	551'00"		X																I	Y	
No	8	P50F516B	CA DIV2 NIAS ISO VLV P5000F441 SOLENOID VLV	AB	B		H-12	551'00"		X																I	Y	
No	8	P50F518	CA DIV2 NIAS ISO VLV P5000F403 SOLENOID VLV	AB	B		H-12	551'00"		X																I	Y	
No	0	P50F519A	CA DIV1 NIAS RX BUILDING RXR INTERIOR DOOR R1-2 SEAL AIR SPY PRESS REGULATOR	RB	1		A-10	588'00"		X																I	N	
No	0	P50F519B	CA DIV2 NIAS RX BUILDING RXR EXTERIOR DOOR R1-1 SEAL AIR SPY REGULATOR	RB	1		B-7	588'00"		X																I	N	
No	0	P50F519B	CA DIV2 NIAS RX BUILDING RXR EXTERIOR DOOR R1-1 SEAL AIR SPY REGULATOR	RB	1		B-7	588'00"		X																I	N	
No	18	P50N480A	SA AUX BUILDING NORTH NON-INTERRUPTABLE AIR SUPPLY TO DIV1 PRESSURE SWITCH	AB	2		H-11	619'03"		X																I	N	
No	18	P50N480B	STA AIR AB N NON-INTERRUPTABLE AIR SUPPLY TO DIV2 PRESS SW	AB	2		H-11	618'06"		X																I	N	
No	18	P50N481A	CA DIV1 AB N CTRL AIR COMP P5002D001 CHASSIS OIL PRESS SW	AB	B		G-17	555'00"		X																I	N	
No	18	P50N481B	CA DIV2 AB S CTRL AIR COMP P5002D002 CHASSIS OIL PRESS SW	AB	B		G-12	566'00"		X																I	N	
No	18	P50N482A	CA DIV1 AUX BUILDING NORTH CONTROL AIR COMP P5002D001 PRESSURE SWITCH	AB	B		H-17	551'00"		X																I	N	
No	18	P50N482B	CA DIV2 AUX BUILDING SOUTH CONTROL AIR COMP P5002D002 PRESSURE SWITCH	AB	B		H-12	551'00"		X																I	N	
No	18	P50N483A	CMPRSD AIR AB N CTRL AIR COMP P5000D001 DIV1 PRESS SW ELECTRIC	AB	B		G-17	555'00"		X																I	N	

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	P50N483B	CMPRSD AIR AB S CTRL AIR COMP P5000D002 DIV2 PRESS SW ELECTRIC	AB	B		G-12	566'00"		X																I	N	
No	18	P50P401A	CMPRSD AIR AUX BUILDING N AIR COMP CTRL PANEL DIV1 INSTRUMENT RACK	AB	B		G-17	555'00"		X																I	N	
No	18	P50P401B	CMPRSD AIR AUX BUILDING SOUTH AIR COMP CTRL PANEL DIV2 INSTRUMENT RACK	RB	B		G-12	566'00"		X																I	N	
No	18	P50P402A	CA RELAY CABINET INSTRUMENT RACK	RB	B		G-17	566'00"		X																I	N	
Yes	3	R1400S001B	SWGR 4160V METALCLAD SWITCHGEAR BUS NO. 64B DIV 1 (RHR Pump, CS Pump A, CRD Pump A)	AB	2	B-11	H-10	613'08"	X	X							35621y	P	Y					Y		I	Y	
No	3	R1400S001B	SWGR 4160V METALCLAD SWITCHGEAR BUS NO. 64B	AB	2	B-11	H-10	613'08"									36014n									I	Y	
No	3	R1400S001C	SWGR 4160V METALCLAD SWITCHGEAR BUS NO. 64C	AB	2	B-11	G-10	613'08"									36014n									I	Y	
No	3	R1400S001E	SWGR 4160V METALCLAD SWITCHGEAR BUS NO. 65E	AB	3		H-10	643'06"									36014n									I	Y	
Yes	3	R1400S001F	SWGR 4160V METALCLAD SWITCHGEAR BUS NO. 65F (D RHR,)	AB	3		G-10	643'06"		X							35621y	P	Y					Y		I	Y	
No	3	R1400S001F	SWGR 4160V METALCLAD SWITCHGEAR BUS NO. 65F	AB	3		G-10	643'06"									36014n									I	Y	
Yes	3	R1400S002A	SWGR 4160V METALCLAD SWITCHGEAR DIESEL GENERATOR BUS NO. 11EA (DIV 1 RHRSW, EDG 11)	RHR	2	EDG11	F-7	617'00"	X	X							35621y	P	Y					Y		I	Y	
Yes	3	R1400S002B	SWGR 4160V METALCLAD SWITCHGEAR DIESEL GENERATOR BUS NO. 12EB (RHRSWC, EDG12)	RHR	2	EDG12	F-6	617'00"	X	X							35621y	P	Y					Y		I	Y	
No	3	R1400S002C	SWGR 4160V METALCLAD SWITCHGEAR DIESEL GENERATOR BUS NO. 13EC	RHR	2	EDG13	H-10	617'00"									27493n									I	Y	
Yes	3	R1400S002D	SWGR 4160V METALCLAD SWITCHGEAR DIESEL GENERATOR BUS NO. 14ED DIV2 (RHRSW D, EDG14)	RHR	2	EDG14	F-7	617'00"	X	X							35621y	P	Y					Y		I	Y	
No	2	R1400S020	SWGR 480V INDOOR UNIT SUBSTATION BUS NO. 72E (DIV2)	AB	3		H-10	643'06"	X	X	X	X	X	X	X	X	36808n									I	Y	
No	4	R1400S020A	SWGR 480V UNIT SUBSTATION TRANSFORMER NO. 72E	AB	3		H-10	643'06"		X																I	N	
No	4	R1400S020B	SWGR 480V UNIT SUBSTATION REGULATOR NO. 72E	AB	3		H-10	643'06"		X																I	N	
No	2	R1400S021	SWGR 480V UNIT SUBSTATION TRANSFORMER BUS NO. 72F (DIV2)	AB	3		G-10	643'06"		X	X	X	X	X	X	X	28306n									I	Y	
Yes	2	R1400S021	SWGR 480V UNIT SUBSTATION TRANSFORMER BUS NO. 72F	AB	3		G-10	643'06"			X	X	X	X	X	X	36808n	P	Y					Y		I	Y	
No	4	R1400S021A	SWGR 480V UNIT SUBSTATION TRANSFORMER NO. 72F	AB	3		G-10	643'06"		X																I	N	
No	4	R1400S021B	SWGR 480V UNIT SUBSTATION REGULATOR NO. 72F	AB	3		G-10	643'06"	X	X																I	N	
No	2	R1400S022	SWGR 480V INDOOR UNIT SUBSTATIONS BUS NO. 72B (DIV 1)	AB	2	B-11	H-10	613'06"	X	X	X	X	X	X	X	X										I	Y	
No	4	R1400S022A	SWGR 480V UNIT SUBSTATION TRANSFORMER NO. 72B	AB	2	B-11	H-9	613'06"		X																I	N	
No	4	R1400S023A	SWGR 480V UNIT SUBSTATION TRANSFORMER NO. 72C	AB	2	B-11	G-10	613'06"		X																I	N	
No	2	R1400S036	SWGR 480V INDOOR UNIT SUBSTATIONS BUS NO. 72EA	RHR	2		F-6	617'00"	X	X		X	X	X		X	36808n									I	Y	
No	4	R1400S036A	SWGR 480V UNIT SUBSTATION TRANSFORMER NO. 72EA	RHR	2		F-6	617'00"		X																I	N	
No	2	R1400S037	SWGR 480V INDOOR UNIT SUBSTATIONS BUS NO. 72EB	RHR	2		F-5	617'00"	X	X		X	X	X		X	36808n									I	Y	
No	4	R1400S037A	SWGR 480V UNIT SUBSTATION XFMR NO 72EB	RHR	2		F-5	617'00"		X																I	N	
No	2	R1400S038	SWGR 480V INDOOR UNIT SUBSTATIONS BUS NO 72EC	RHR	2		F-8	617'00"	X	X			X	X			27108y									I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	8	C11F163A	CRD SOV	RB	1	A-12	C-13	587'02"		X	X		X					Y							Y		I	Y	MMR
No	4	R1400S038B	SWGR DIV2 480V ESS BUS 72EC V REG	RHR	2		F-8	617'00"	X	X							27108y										I	N	
No	2	R1400S039	SWGR 480V INDOOR UNIT SUBSTATIONS BUS NO 72ED	RHR	2		F-7	617'00"					X	X			27108y										I	Y	
Yes	4	R1400S039A	SWGR 480V UNIT SUBSTATION TRANSFORMER NO. 72ED DIV 2 (EDG 14)	RHR	2		F-7	617'00"	X	X							27108y	P	Y						Y		I	N	
No	4	R1400S039B	SWGR DIV2 480V ESS BUS 72ED V REG	RHR	2		F-7	617'00"									27108y										I	N	
Yes	18	H21P474	LOC PNL/RACK (MR ONLY) EECW DIV1 INST RACK	RB	1		B-13	583'06"	X	X								Y	Y						Y		I	N	
No	DS	R1600S002A	MCC/DIST CAB 480V MCC 72B-2A	AB	2	B-11	E-10	583'06"									35303n										I	Y	
No	DS	R1600S002A	MCC/DIST CAB 480V MCC 72B-2A	AB	2	B-11	E-10	583'06"									34535y										I	Y	
No	8	C11F182A	CRD SCRAM DISCH VOL VENT & DRAIN VLV F180 & F181 PILOT AIR 'A' SOV	RB	1	A-12	C-13	583'06"		X	X		X					Y							Y		I	N	MMR
No	1	R1600S002B	MCC/DIST CAB 480V MCC NO 72B-3A	RB	1	A-12	G-13	583'06"		X																	I	Y	
No	1	R1600S002C	MCC/DIST CAB 480V MCC 72B-4C	RB	1	A-12	G-13	583'06"																			I	N	
No	1	R1600S003A	MCC/DIST CAB 480V MCC NO 72C-2A	AB	5	B-27A	H-15	620'06"		X																	I	Y	
No	1	R1600S003B	MCC/DIST CAB 480V MCC 72C-3A	RB	2	A-17	B-15	613'06"		X																	I	Y	
Yes	1	R1600S003D	MCC/DIST CAB 480V 72C-F MCC	RB	2	A-17	A-11	613'06"	X	X							34824n	P	Y						Y		I	Y	
No	1	R1600S003E	MCC/DIST CAB 480V MCC NO 72C-3B	AB	4	B-24A	H-11	618'06"																			I	N	
No	1	R1600S004B	MCC/DIST CAB 480V MCC NO 72E-5A	RB	1		D-9	583'00"		X																	I	Y	
No	1	R1600S004D	MCC/DIST CAB 480V MCC NO 72E-5B	RB	1		E-9	583'06"																			I	N	
Yes	1	R1600S005A	MCC/DIST CAB 480V MCC NO 72F-2A	AB	3		F-10	643'06"	X	X								P	Y						Y		I	Y	
No	0	R1600S005A	MCC/DIST CAB 480V MCC NO 72F-2A	AB	3		F-10	643'06"									27108y										I	Y	
No	0	R1600S005A	MCC/DIST CAB 480V MCC NO 72F-2A	AB	3		F-10	643'06"									35303n										I	Y	
No	DS	R1600S005A	MCC/DIST CAB 480V MCC NO 72F-2A	AB	3		F-10	643'06"									34535y										I	Y	
No	1	R1600S005C	MCC/DIST CAB 480V MCC NO 72F-4A	RB	2		D-9	613'06"		X																	I	Y	
Yes	1	R1600S005D	MCC/DIST CAB 480V MCC NO 72F-5A	AB	5	B-27	G-12	677'06"		X							35304y	P	Y						Y		I	Y	
No	1	R1600S005E	MCC/DIST CAB AE DIV2 E H2 RECOMBINER MCC NO 72F-5B.	AB	4	B-24A	G-11	643'06"																			I	N	
Yes	1	R1600S016A	MCC/DIST CAB 480V MCC NO 72EA-2C	RHR	2		F-6	617'00"		X							34492n	P	Y						Y		I	N	
Yes	1	R1600S017A	MCC/DIST CAB 480V MCC NO 72EB-2D (EDG 12)	RHR	2		E-6	617'00"		X						X	34492n	P	Y						Y		I	N	
Yes	1	R1600S018A	MCC/DIST CAB 480V MCC NO 72EC-2C (EDG 13)	RHR	2		E-9	617'00"		X						X	34492n	P	Y						Y		I	N	
Yes	2	R1600S148	MCC/DIST CAB 3L TRANSFER SW FOR H21P632 PNL	RB	2		C-10	613'06"						X		X	29183y	Y	Y						Y		I	N	
Yes	21	R3000A001	EDG 11 FO TANK	RHR	1		C-6.1	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A002	EDG 12 FO TANK	RHR	1		C-5.1	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A003	EDG 13 FO TANK	RHR	1		C-8.1	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A005	EDG 11 JC EXPANSION TANK	RHR	1		D-7	603'00"		X								Y	Y						Y		I	N	
Yes	21	R3000A006	EDG 12 JC EXPANSION TANK	RHR	1		D-6	603'00"		X								Y	Y						Y		I	N	
Yes	21	R3000A007	EDG 13 JC EXPANSION TANK	RHR	1		D-9	603'00"		X								Y	Y						Y		I	N	
Yes	21	R3000A008	EDG 14 JC EXPANSION TANK	RHR	1		D-8	603'00"		X								Y	Y						Y		I	N	
Yes	21	R3000A009	EDG 11 E STARTING AIR RECEIVER	RHR	1		C-6.1	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A010	EDG 12 E STARTING AIR RECEIVER	RHR	1		C-6	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A012	EDG 12 W STARTING AIR RECEIVER	RHR	1		C-6	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A013	EDG 13 E STARTING AIR RECEIVER	RHR	1		C-8.1	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A014	EDG 14 E STARTING AIR RECEIVER	RHR	1		C-7.1	590'00"		X								Y	Y						Y		I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
Yes	21	R3000A015	EDG 13 W STARTING AIR RECEIVER	RHR	1		C-8	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A016	EDG 14 W STARTING AIR RECEIVER	RHR	1		C-7.1	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A017	EDG 11 FO DAY TANK	RHR	1		C-6.1	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A018	EDG 12 FO DAY TANK	RHR	1		C-5.1	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A019	EDG 13 FO DAY TANK	RHR	1		C-8.1	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A020	EDG 14 FO DAY TANK	RHR	1		C-7.1	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A021	EDG 11 LUBE OIL TANK	RHR	1		D-7	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A023	EDG 13 LUBE OIL TANK	RHR	1		D-9	590'00"		X								Y	Y						Y		I	Y	
Yes	21	R3000A024	EDG 14 LUBE OIL TANK	RHR	1		D-7	590'00"		X								Y	Y						Y		I	Y	
No	5	R3000C001	EDG NO. 11 FUEL OIL TRANSFER PUMP A	RHR	1		E-7	592'00"		X																	I	Y	
No	5	R3000C002	EDG NO. 12 FUEL OIL TRANSFER PUMP A	RHR	1		C-5.1	592'00"		X																	I	Y	
No	5	R3000C003	EDG NO. 11 FUEL OIL TRANSFER PUMP B	RHR	1		C-7	592'00"		X																	I	Y	
No	5	R3000C004	EDG NO. 12 FUEL OIL TRANSFER PUMP B	RHR	1		C-5	592'00"		X																	I	Y	
Yes	5	R3000C009	EDG NO. 13 FUEL OIL TRANSFER PUMP A	RHR	1		E-9	592'00"		X									Y	Y						Y		I	Y	
No	5	R3000C010	EDG NO. 14 FUEL OIL TRANSFER PUMP A	RHR	1		C-7.1	592'00"		X																	I	Y	
No	5	R3000C011	EDG NO. 13 FUEL OIL TRANSFER PUMP B	RHR	1		C-8.1	592'00"		X																	I	Y	
No	5	R3000C012	EDG NO. 14 FUEL OIL TRANSFER PUMP B	RHR	1		C-7	592'00"		X																	I	Y	
Yes	12	R3000D001	EDG 11 STARTING AIR COMPRESSOR	RHR	1		C-6.1	590'00"		X									Y	Y						Y		I	N	
Yes	12	R3000D003	EDG 13 STARTING AIR COMPRESSOR	RHR	1		C-8.1	590'00"		X									Y	Y						Y		I	N	
Yes	12	R3000D004	EDG 14 STARTING AIR COMPRESSOR	RHR	1		C-7.1	590'00"		X								26191y	Y	Y						Y		I	N	
No	8	R3000F012A	EDG 11 JC 3-WAY TEMP CTRL VLV	RHR	1		F-6			X																	I	N	
No	8	R3000F012B	EDG 13 JC 3-WAY TEMP CTRL VLV	RHR	1		F-7			X																	I	N	
No	8	R3000F012C	EDG 12 JC 3-WAY TEMP CTRL VLV	RHR	1		F-5			X																	I	N	
No	8	R3000F012D	EDG 14 JC 3-WAY TEMP CTRL VLV	RHR	1		F-8			X																	I	N	
No	7	R3000F023A	EDG 11 ACS 3-WAY TEMP CTRL VLV	RHR	1		E-7	593'00"		X																	I	N	
No	7	R3000F023B	EDG 13 ACS 3-WAY TEMP CTRL VLV	RHR	1		E-9	593'00"		X																	I	N	
No	7	R3000F023C	EDG 12 ACS 3-WAY TEMP CTRL VLV	RHR	1		E-6	593'00"		X																	I	N	
No	0	R3000F031A	EDG 11 W STARTING AIR RECEIVER A011 INLET CHK VLV	RHR	1		C-6.1	596'00"										30815n									I	Y	
No	0	R3000F031B	EDG 13 W STARTING AIR RECEIVER A015 INLET CHK VLV	RHR	1		C-8.1	596'00"										30815n									I	Y	
No	0	R3000F031C	EDG 12 W STARTING AIR RECEIVER A012 INLET CHK VLV	RHR	1		C-5.1	596'00"										30815n									I	Y	
No	0	R3000F031D	EDG 14 W STARTING AIR RECEIVER A016 INLET CHK VLV	RHR	1		C-7.1	596'00"										30815n									I	Y	
No	0	R3000F032A	EDG 11 E STARTING AIR RECEIVER A009 INLET CHK VLV	RHR	1		C-6.1	596'00"										30815n									I	Y	
No	0	R3000F032B	EDG 13 E STARTING AIR RECEIVER A013 INLET CHK VLV	RHR	1		C-8.1	596'00"										30815n									I	Y	
No	0	R3000F032C	EDG 12 E STARTING AIR RECEIVER A010 INLET CHK VLV	RHR	1		C-5.1	596'00"										30815n									I	Y	
No	0	R3000F032D	EDG 14 E STARTING AIR RECEIVER A014 INLET CHK VLV	RHR	1		C-7.1	596'00"										30815n									I	Y	
No	0	R3000F035A	EDG 11 W STARTING AIR RECEIVER A011 PRESS RELIEF VLV	RHR	1	EDG11		601'06"		X																	I	Y	
No	0	R3000F035B	EDG 13 W STARTING AIR RECEIVER A015 PRESS RELIEF VLV	RHR	1	EDG13		601'06"		X																	I	Y	
No	0	R3000F035C	EDG 12 W STARTING AIR RECEIVER A012 PRESS RELIEF VLV	RHR	1	EDG12		590'00"		X																	I	Y	
No	0	R3000F035D	EDG 14 W STARTING AIR RECEIVER A016 PRESS RELIEF VLV	RHR	1	EDG14		601'06"		X																	I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	0	R3000F036A	EDG 11 E STARTING AIR RECEIVER A009 PRESS RELIEF VLV	RHR	1	EDG11		601'06"		X																I	Y	
No	0	R3000F036B	EDG 13 E STARTING AIR RECEIVER A013 PRESS RELIEF VLV	RHR	1	EDG13		601'06"		X																I	Y	
No	0	R3000F036C	EDG 12 E STARTING AIR RECEIVER A010 PRESS RELIEF VLV	RHR	1	EDG12		601'06"		X																I	Y	
No	0	R3000F036D	EDG 14 E STARTING AIR RECEIVER A014 PRESS RELIEF VLV	RHR	1	EDG14		601'06"		X																I	Y	
No	0	R3000F040A	EDG 11 W STARTING AIR RECEIVER A011 DRAIN VLV	RHR	1		C-6.1	591'05"									27608n									I	N	
No	0	R3000F040B	EDG 13 W STARTING AIR RECEIVER A015 DRAIN VLV	RHR	1		C-8.1	591'05"									27608n									I	N	
No	0	R3000F040C	EDG 12 W STARTING AIR RECEIVER A012 DRAIN VLV	RHR	1		C-5.1	591'05"									27608n									I	N	
No	0	R3000F040D	EDG 14 W STARTING AIR RECEIVER A016 DRAIN VLV	RHR	1		C-7.1	591'05"									27608n									I	N	
No	0	R3000F041A	EDG 11 E STARTING AIR RECEIVER A009 DRAIN VLV	RHR	1		C-6.1	591'05"									27608n									I	N	
No	0	R3000F041B	EDG 13 E STARTING AIR RECEIVER A013 DRAIN VLV	RHR	1		C-8	591'05"									27608n									I	N	
No	0	R3000F041C	EDG 12 E STARTING AIR RECEIVER A010 DRAIN VLV	RHR	1		C-5.1	591'05"									27608n									I	N	
No	0	R3000F041D	EDG 14 E STARTING AIR RECEIVER A014 DRAIN VLV	RHR	1		C-7.1	591'05"									27608n									I	N	
No	0	R3000F096A	EDG 11 FO PMPS DISCH HEADER RELIEF VLV	RHR	1		D-06	594'00"		X																I	N	
No	0	R3000F096B	EDG 13 FO PMPS DISCH HEADER RELIEF VLV	RHR	1	EDG13				X																I	N	
No	0	R3000F096C	EDG 12 FO PMPS DISCH HEADER RELIEF VLV	RHR	1		D-06	594'00"		X																I	N	
No	0	R3000F096D	EDG 14 FO PMPS DISCH HEADER RELIEF VLV	RHR	1	EDG14				X																I	N	
No	0	R3000F109A	EDG 11 LUBE OIL SUMP LVL FLOAT REG FILL VLV	RHR	1		E-6			X																I	N	
No	0	R3000F109B	EDG 13 LUBE OIL SUMP LVL FLOAT REG FILL VLV	RHR	1		E-8			X																I	N	
No	0	R3000F109C	EDG 12 LUBE OIL SUMP LVL FLOAT REG FILL VLV	RHR	1		E-5			X																I	N	
No	0	R3000F109D	EDG 14 LUBE OIL SUMP LVL FLOAT REG FILL VLV	RHR	1		E-7			X																I	N	
No	0	R3000F111A	EDG 11 TURBO CHGRS DISCH HEADER RELIEF VLV	RHR	1		D-06	594'00"		X																I	N	
No	0	R3000F111B	EDG 13 TURBO CHGR DISCH HEADER RELIEF VLV	RHR	1	EDG13				X																I	N	
No	0	R3000F111C	EDG 12 TURBO CHGRS DISCH HEADER RELIEF VLV	RHR	1		D-06	594'00"		X																I	N	
No	0	R3000F111D	EDG 14 TURBO CHGR DISCH HEADER RELIEF VLV	RHR	1	EDG14				X																I	N	
No	8	R3000F123A	EDG 11 LUBE OIL 3-WAY TEMP CTRL VLV	RHR	1		D-6			X																I	N	
No	8	R3000F123B	EDG 13 LUBE OIL 3-WAY TEMP CTRL VLV	RHR	1		D-8			X																I	N	
No	8	R3000F123C	EDG 12 LUBE OIL 3-WAY TEMP CTRL VLV	RHR	1		D-5			X																I	N	
No	8	R3000F123D	EDG 14 LUBE OIL 3-WAY TEMP CTRL VLV	RHR	1		D-7			X																I	N	
No	8	R3000F601	EDG 13 FUEL TANK A003 INBRD EMERG DRAIN MOV	RHR	1		D-7	592'02"		X																I	N	
No	8	R3000F603	EDG 14 FUEL TANK A004 INBRD EMERG DRAIN MOV	RHR	1		D-7	592'02"		X																I	N	
No	8	R3000F605	EDG 11 FUEL TANK A001 INBRD EMERG DRAIN MOV	RHR	1		D-7	592'02"		X																I	N	
No	8	R3000F607	EDG 12 FUEL TANK A002 INBRD EMERG DRAIN MOV	RHR	1		D-5	592'02"		X																I	N	
No	0	R3000F964A	EDG 11 DSL FO STRG TANK R3000A001 FO SAMPLE TAP R30L579A CT ISO VLV	RHR	1		C-7	592'07"									28272n									I	Y	
No	0	R3000F964B	EDG 13 DSL FO STRG TANK R3000A003 FO SAMPLE TAP R30L579B CT ISO VLV	RHR	1		C-9	592'07"									28272n									I	Y	
No	0	R3000F964C	EDG 12 DSL FO STRG TANK R3000A002 FO SAMPLE TAP R30L579C CT ISO VLV	RHR	1		C-5	592'07"									28272n									I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	0	R3000F964D	EDG 14 DSL FO STRG TANK R3000A004 FO SAMPLE TAP R30L579D CT ISO VLV	RHR	1		C-7	592'07"									28272n										I	Y	
No	DS	R3000S005	EDG 11 LOCAL CTRL PNL	RHR	2			617'00"		X							27566n										I	Y	
No	DS	R3000S005	EDG 11 LOCAL CTRL PNL	RHR	2			617'00"									27238n										I	Y	
Yes	20	R3000S005	EDG 11 LOCAL CTRL PNL	RHR	2			617'00"									29068y	Y	Y						Y		I	Y	
No	DS	R3000S006	EDG 12 LOCAL CTRL PNL	RHR	2		G-6	617'00"		X							27566n										I	Y	
No	DS	R3000S006	EDG 12 LOCAL CTRL PNL	RHR	2		G-6	617'00"									27238n										I	Y	
No	DS	R3000S007	EDG 13 LOCAL CTRL PNL	RHR	2			617'00"		X							27566n										I	Y	
No	DS	R3000S008	EDG 14 LOCAL CTRL PNL	RHR	2		G-8	617'00"		X							27566n										I	Y	
No	DS	R3000S008	EDG 14 LOCAL CTRL PNL	RHR	2		G-8	617'00"									27238n										I	Y	
No	0	R3000S008	EDG 14 LOCAL CTRL PNL	RHR	2		G-8	617'00"									29068y										I	Y	
Yes	21	R3001B001	EDG 12 LUBE OIL HX	RHR	1		D-5.1	596'00"		X							28844n	Y	Y						Y		I	N	
Yes	21	R3001B002	EDG 11 LUBE OIL HX	RHR	1		D-6.1	596'00"		X							28844n	Y	Y						Y		I	N	
Yes	21	R3001B003	EDG 13 LUBE OIL HX	RHR	1		D-8.1	596'00"		X							28844n	Y	Y						Y		I	N	
Yes	21	R3001B013	EDG 11 LUBE OIL HTG	RHR	1		D-6.1	595'00"										Y	Y						Y		I	N	
Yes	21	R3001B017	EDG 11 JC HX	RHR	1		D-6.1	603'00"		X							28844n	Y	Y						Y		I	N	
Yes	21	R3001B018	EDG 13 JC HX	RHR	1		D-8.1	603'00"		X							28844n	Y	Y						Y		I	N	
Yes	21	R3001B019	EDG 12 JC HX	RHR	1		D-5.1	603'00"		X							28844n	Y	Y						Y		I	N	
Yes	21	R3001B020	EDG 14 JC HX	RHR	1		D-7.1	603'00"		X							28844n	Y	Y						Y		I	N	
Yes	21	R3001B021	EDG 11 JC HTG	RHR	1		D-6.1	595'00"										Y	Y						Y		I	N	
Yes	21	R3001B022	EDG 13 JC HTG	RHR	1		D-8.1	595'00"										Y	Y						Y		I	N	
Yes	21	R3001B023	EDG 12 JC HTG	RHR	1		D-5.1	595'00"										Y	Y						Y		I	N	
Yes	21	R3001B024	EDG 14 JC HTG	RHR	1		D-7.1	595'00"										Y	Y						Y		I	N	
Yes	21	R3001B025	EDG 11 AIR COOLANT HX	RHR	1		D-6.1	595'00"		X							28844n	Y	Y						Y		I	N	
Yes	21	R3001B026	EDG 13 AIR COOLANT HX	RHR	1		D-8.1	595'00"		X							28844n	Y	Y						Y		I	N	
Yes	21	R3001B027	EDG 12 AIR COOLANT HX	RHR	1		D-5.1	595'00"		X							28844n	Y	Y						Y		I	N	
Yes	21	R3001B028	EDG 14 AIR COOLANT HX	RHR	1		D-7.1	595'00"		X							28844n	Y	Y						Y		I	N	
No	6	R3001C005	EDG 11 SERVICE WATER PUMP	RHR	1		F-4	594'00"		X																	I	Y	
Yes	6	R3001C005	EDG 11 SERVICE WATER PUMP	RHR	1		F-4	594'00"										Y	Y						Y		I	Y	
No	6	R3001C006	EDG 12 SERVICE WATER PUMP	RHR	1		E-6	594'00"		X																	I	Y	
No	6	R3001C007	EDG 13 SERVICE WATER PUMP	RHR	1		F-10	594'00"		X																	I	Y	
Yes	6	R3001C007	EDG 13 SERVICE WATER PUMP	RHR	1		F-10	594'00"										Y	Y						Y		I	Y	
No	6	R3001C008	EDG 14 SERVICE WATER PUMP	RHR	1		F-10	594'00"		X																	I	Y	
Yes	6	R3001C008	EDG 14 SERVICE WATER PUMP	RHR	1		F-10	594'00"										Y	Y						Y		I	Y	
Yes	17	R3001S001	EDG 11 4160V	RHR	1		E-6.1	595'00"	X								27238n	Y	Y						Y		I	Y	
Yes	17	R3001S002	EDG 12 4160V	RHR	1		E-5.1	595'00"	X								27238n	Y	Y						Y		I	Y	
No	17	R3001S003	EDG 13 4160V	RHR	1		E-8.1	595'00"		X																	I	Y	
Yes	17	R3001S003	EDG 13 4160V	RHR	1		E-8.1	595'00"	X									Y	Y						Y		I	Y	
No	17	R3001S004	EDG 14 4160V	RHR	1		E-7.1	595'00"		X							27238n										I	Y	
yes	17	R3001S004	EDG 14 4160V	RHR	1		E-7.1	595'00"										Y	Y						Y		I	Y	
No	8	R30FA04A	EDG 11 THREE WAY AIR START CYL 7-12 SOLENOID VLV	RHR	1		E-7	592'00"		X																	I	Y	
No	8	R30FA04B	EDG 13 THREE WAY AIR START CYL 7-12 SOLENOID VLV	RHR	1		E-9	592'00"		X																	I	Y	
No	8	R30FA04C	EDG 12 THREE WAY AIR START CYL 7-12 SOLENOID VLV	RHR	1		E-6	592'00"		X																	I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	8	R30FA04D	EDG 14 THREE WAY AIR START CYL 7-12 SOLENOID VLV	RHR	1		E-8	592'00"		X																I	Y	
No	8	R30FA05A	EDG 11 THREE WAY AIR START CYL 1-6 SOLENOID VLV	RHR	1		E-7	592'00"		X																I	Y	
No	8	R30FA05D	EDG 14 THREE WAY AIR START CYL 1-6 SOLENOID VLV	RHR	1		E-8	592'00"		X																I	Y	
No	20	R30KA01A	EDG 11 TACHOMETER RLY SPEED SIG CND	RHR	1		E-6	590'00"									32976n									I	Y	
No	20	R30KA01D	EDG 14 TACHOMETER RLY SPEED SIG CND	RHR	1		E-7	590'00"									32979n									I	Y	
No	DS	R30L579A	EDG 11 DSL FO STRG TANK R3000A001 OIL SAMPLE TAP	RHR	1		C-7	592'07"									28272n									I	N	
No	DS	R30L579B	EDG 13 DSL FO STRG TANK R3000A003 OIL SAMPLE TAP	RHR	1		C-9	592'07"									28272n									I	N	
No	DS	R30L579C	EDG 12 DSL FO STRG TANK R3000A002 OIL SAMPLE TAP	RHR	1		C-5	592'07"									28272n									I	N	
No	DS	R30L579D	EDG 14 DSL FO STRG TANK R3000A004 OIL SAMPLE TAP	RHR	1		C-7	592'07"									28272n									I	N	
No	20	R30N016A	EDG 11 DIV1 GOVERNOR MAGNETIC PICKUP SPEED SENSOR	RHR	1		E-6	590'00"								27238	27238n									I	Y	
No	20	R30N016C	EDG 12 DIV1 GOVERNOR MAGNETIC PICKUP SPEED SENSOR	RHR	1		E-5	590'00"									27238n									I	Y	
No	20	R30N016D	EDG 14 DIV2 GOVERNOR MAGNETIC PICKUP SPEED SENSOR	RHR	1		E-7	590'00"									27238n									I	Y	
No	0	R30N563A	EDG DSL FO DAY TANK R3000A017 LOW LVL LS	RHR	1		D-6	611'00"		X																I	N	
No	0	R30N563B	EDG DSL FO DAY TANK R3000A019 LOW LVL LS	RHR	1		C-8	611'00"		X																I	N	
No	0	R30N563C	EDG DSL FO DAY TANK R3000A018 LOW LVL LS	RHR	1		D-5	611'00"		X																I	N	
No	0	R30N563D	EDG DSL FO DAY TANK R3000A020 LOW LVL LS	RHR	1		C-7	611'00"		X																I	N	
No	18	R30N568A	EDG DIFF TYPE DGSW PMP R3001C005 TO EDG 11 R3001S001 FLOW XMTR	RHR	1		E-6	595'00"		X																I	N	
No	18	R30N568B	EDG DIFF TYPE DGSW PMP R3001C007 TO EDG 13 R3001S003 FLOW XMTR	RHR	1		E-9	595'00"		X																I	N	
No	18	R30N568C	EDG DIFF TYPE DGSW PMP R3001C006 TO EDG 12 R3001S002 FLOW XMTR	RHR	1		D-4	595'00"		X																I	N	
No	18	R30N568D	EDG DIFF TYPE DGSW PMP R3001C008 TO EDG 14 R3001S004 FLOW XMTR	RHR	1		D-8	595'00"		X																I	N	
No	18	R30NA08A	EDG 11 LUBE OIL CRANKCASE PRESS HI PRESS SW ELEC	RHR	1		D-6	592'00"		X																I	N	
No	18	R30NA08B	EDG 13 LUBE OIL CRANKCASE PRESS HI PRESS SW ELEC	RHR	1		D-8	592'00"		X																I	N	
No	18	R30NA08C	EDG 12 LUBE OIL CRANKCASE PRESS HI PRESS SW ELEC	RHR	1		D-6	592'00"		X																I	N	
No	18	R30NA08D	EDG 14 LUBE OIL CRANKCASE PRESS HI PRESS SW ELEC	RHR	1		D-7	592'00"		X																I	N	
No	18	R30NA09A	EDG 11 LUBE OIL CRANKCASE PRESS HI PRESS SW ELEC	RHR	1		D-6	592'00"		X																I	N	
No	18	R30NA09B	EDG 13 LUBE OIL CRANKCASE PRESS HI PRESS SW ELEC	RHR	1		D-8	592'00"		X																I	N	
No	18	R30NA09C	EDG 12 LUBE OIL CRANKCASE PRESS HI PRESS SW ELEC	RHR	1		D-6	592'00"		X																I	N	
No	18	R30NA10A	EDG 11 LUBE OIL CRANKCASE PRESS HI PRESS SW ELEC	RHR	1		D-6	592'00"		X																I	N	
No	18	R30NA10B	EDG 13 LUBE OIL CRANKCASE PRESS HI PRESS SW ELEC	RHR	1		D-8	592'00"		X																I	N	
No	18	R30NA10C	EDG 12 LUBE OIL CRANKCASE PRESS HI PRESS SW ELEC	RHR	1		D-6	592'00"		X																I	N	
No	18	R30NA10D	EDG 14 LUBE OIL CRANKCASE PRESS HI PRESS SW ELEC	RHR	1		D-7	592'00"		X																I	N	
No	18	R30NA11A	EDG 11 LUBE OIL PRESS LP SW ELEC	RHR	1		D-6	592'00"		X																I	N	
No	18	R30NA11B	EDG 13 LUBE OIL PRESS LP SW ELEC	RHR	1		D-8	592'00"		X																I	N	
No	18	R30NA11C	EDG 12 LUBE OIL PRESS LP SW ELEC	RHR	1		D-6	592'00"		X																I	N	
No	18	R30NA11D	EDG 14 LUBE OIL PRESS LP SW ELEC	RHR	1		D-7	592'00"		X																I	N	
No	18	R30NA12A	EDG 11 LUBE OIL PRESS LP SW ELEC	RHR	1		D-6	592'00"		X																I	N	

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IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	R30NA12B	EDG 13 LUBE OIL PRESS LP SW ELEC	RHR	1		D-8	592'00"		X																I	N	
No	18	R30NA12C	EDG 12 LUBE OIL PRESS LP SW ELEC	RHR	1		D-6	592'00"		X																I	N	
No	18	R30NA12D	EDG 14 LUBE OIL PRESS LP SW ELEC	RHR	1		D-7	592'00"		X																I	N	
No	18	R30NA13A	EDG 11 LUBE OIL PRESS LP SW ELEC	RHR	1		D-6	592'00"		X																I	N	
No	18	R30NA13B	EDG 13 LUBE OIL PRESS LP SW ELEC	RHR	1		D-8	592'00"		X																I	N	
No	18	R30NA13C	EDG 12 LUBE OIL PRESS LP SW ELEC	RHR	1		D-6	592'00"		X																I	N	
No	18	R30NA13D	EDG 14 LUBE OIL PRESS LP SW ELEC	RHR	1		D-7	592'00"		X																I	N	
No	18	R30NA16A	EDG 11 JC PRESS SW ELEC	RHR	1		D-6	593'00"		X																I	N	
No	18	R30NA16B	EDG 13 JC PRESS SW ELEC	RHR	1		D-8	593'00"		X																I	N	
No	18	R30NA16C	EDG 12 JC PRESS SW ELEC	RHR	1		D-5	593'00"		X																I	N	
No	18	R30NA16D	EDG 14 JC PRESS SW ELEC	RHR	1		D-7	593'00"		X																I	N	
No	0	R30NA17B	EDG 13 MAGNETIC PICKUP SPEED XMTR	RHR	1		E-8	590'00"		X																I	Y	
No	0	R30NA17C	EDG 12 MAGNETIC PICKUP SPEED XMTR	RHR	1		E-5	590'00"		X																I	Y	
Yes	0	R30NA17D	EDG 14 MAGNETIC PICKUP SPEED XMTR	RHR	1		E-7	590'00"		X								32979n	Y	Y					Y		I	Y	
No	18	R30NA18A	EDG 11 AIR COOLER TEMP XMTR PNEUMATIC	RHR	1		D-6	598'00"		X																I	N	
No	18	R30NA18B	EDG 13 AIR COOLER TEMP XMTR PNEUMATIC	RHR	1		D-8	598'00"		X																I	N	
No	18	R30NA18C	EDG 12 AIR COOLER TEMP XMTR PNEUMATIC	RHR	1		D-5	598'00"		X																I	N	
No	18	R30NA18D	EDG 14 AIR COOLER TEMP XMTR PNEUMATIC	RHR	1		D-8	598'00"		X																I	N	
No	20	R30NA19A	EDG 11 AIR COOLER TEMP CTRLR PNEUMATIC	RHR	1	EDG11	D-6	598'00"		X																I	N	
No	20	R30NA19B	EDG 13 AIR COOLER TEMP CTRLR PNEUMATIC	RHR	1	EDG13	D-8	598'00"		X																I	N	
No	20	R30NA19C	EDG 12 AIR COOLER TEMP CTRLR PNEUMATIC	RHR	1	EDG12	D-5	598'00"		X																I	N	
No	20	R30NA19D	EDG 14 AIR COOLER TEMP CTRLR PNEUMATIC	RHR	1	EDG14	D-7	598'00"		X																I	N	
No	18	R30P311	EDG 11 RLY CABINET INSTRUMENT RACK	RHR	2		E-6	617'00"		X																I	N	
No	18	R30P312	STBY EMERG PWR SYS CKT CONNECTION BOX INSTRUMENT RACK	RHR	1		F-6	590'00"		X																I	N	
No	18	R30P321	EDG 12 RLY CABINET INSTRUMENT RACK	RHR	2		G-5	617'00"		X																I	N	
No	18	R30P322	EDG STBY EMERG PWR SYS CKT CONNECTION BOX INSTRUMENT RACK	RHR	1	EDG12				X																I	N	
No	18	R30P331	EDG 13 RLY CABINET INSTRUMENT RACK	RHR	2		G-8	617'00"		X																I	N	
No	18	R30P332	EDG STBY EMERG PWR SYS CKT CONNECTION BOX INSTRUMENT RACK	RHR	1		F-8	590'00"		X																I	N	
No	20	R30P340	EDG ENGINE GAUGE PNL	RHR	1	EDG14		590'00"		X																I	N	
No	18	R30P341	EDG 14 RLY CABINET INSTRUMENT RACK	RHR	2		G-7	617'00"		X																I	N	
No	18	R30P342	EDG STBY EMERG PWR SYS CKT CONNECTION BOX INSTRUMENT RACK	RHR	1	EDG14				X																I	N	
Yes	4	R30P343A	EDG 11 DIV1 SERIES BOOST EXCITER/V REG PNL	RHR	1		F-7	590'00"										29068y	Y	Y					Y		I	Y	
Yes	4	R30P343C	EDG 12 DIV1 SERIES BOOST EXCITER/V REG PNL	RHR	1		F-6	590'00"										29068y	Y	Y					Y		I	Y	
No	18	R30P405A	EDG DIV1 EDG 11 SW PMP R3001C005 FLOW INSTRUMENTS PIPE STAND	RHR	1		D-6	590'00"		X																I	N	
No	18	R30P405B	EDG DIV2 EDG 13 SW PMP R3001C007 FLOW INSTRUMENTS PIPE STAND	RHR	1		E-9	590'00"		X																I	N	
No	18	R30P405C	EDG DIV1 EDG 12 SW PMP R3001C006 FLOW INSTRUMENTS PIPE STAND	RHR	1		E-5	590'00"		X																I	N	

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IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	R30P405D	EDG DIV2 EDG 14 SW PMP R3001C008 FLOW INSTRUMENTS PIPE STAND	RHR	1		D-8	590'00"		X																	I	N	
No	20	R30R003A	EDG DIV1 EDG 11 RUN HOURMETER	RHR	2		G-7	617'00"		X																	I	N	
No	20	R30R003B	EDG DIV2 EDG 13 RUN HOURMETER	RHR	2		G-9	617'00"		X																	I	N	
No	20	R30R003C	EDG DIV1 EDG 12 RUN HOURMETER	RHR	2		G-5	617'00"		X																	I	N	
No	20	R30R003D	EDG DIV2 EDG 14 RUN HOURMETER	RHR	2		G-7	617'00"		X																	I	N	
No	20	R30R008A	EDG DIV1 EDG 11 WATTMETER	RHR	2		G-7	617'00"		X																	I	Y	
No	20	R30R008B	EDG DIV2 EDG 13 WATTMETER	RHR	2		G-9	617'00"		X																	I	Y	
No	20	R30R008C	EDG DIV1 EDG 12 WATTMETER	RHR	2		G-5	617'00"		X																	I	Y	
No	20	R30R008D	EDG DIV2 EDG 14 WATTMETER	RHR	2		G-7	617'00"		X																	I	Y	
No	20	R30R009A	EDG DIV1 EDG 11 FREQ METER	RHR	2		G-7	617'00"		X																	I	Y	
No	20	R30R009B	EDG DIV2 EDG 13 FREQ METER	RHR	2		G-9	617'00"		X																	I	Y	
No	20	R30R009C	EDG DIV1 EDG 12 FREQ METER	RHR	2		G-5	617'00"		X																	I	Y	
No	20	R30R009D	EDG DIV2 EDG 14 FREQ METER	RHR	2		G-7	617'00"		X																	I	Y	
Yes	5	C4103C001A	SLC NORTH REACTOR PUMP	RB	4	A-33	F-10	659'06"		C41	X								Y	Y					Y		I	Y	MMR
No	DS	R3101S002	VP 120VAC-MPU#2 DIV2	AB	3		F-10	643'06"	X	X																	I	Y	
No	16	R31K001	VITAL PWR DIST 120 VAC DIV1 2KVA INVERTER	AB	2		F-17	613'06"		X																	I	N	
No	16	R31K002	VITAL PWR DIST 120 VAC DIV1 2KVA INVERTER	AB	2		F-17	613'06"		X																	I	N	
No	16	R31K004	VITAL PWR DIST 120 VAC DIV2 2KVA INVERTER	AB	2		F-14	613'06"		X																	I	N	
Yes	15	R3200S003	DC DIV1 130/260V DUAL BATT 2PA	AB	3		G-12	643'06"		X								30405n	Y	Y					Y		I	Y	
Yes	16	R3200S007A	DC BATT 2A-1 DUAL MAIN FUSE CABINET	AB	3	B-22E	G-11	643'06"										26959n	Y	Y					Y		I	N	
Yes	16	R3200S007B	DC BATT 2A-2 DUAL MAIN FUSE CABINET	AB	3	B-22E	G-11	643'06"										26959n	Y	Y					Y		I	N	
Yes	16	R3200S008A	DC BATT 2B-1 DUAL MAIN FUSE CABINET	AB	3	B-22W	F-11	643'06"										26959n	Y	Y					Y		I	N	
Yes	16	R3200S008B	DC BATT 2B-2 DUAL MAIN FUSE CABINET	AB	3		F-11	643'06"										26959n	Y	Y					Y		I	N	
No	1	R3200S015	DC 260V DC MCC (2PA-1)	AB	3		G-11	643'06"		X						X											I	Y	
No	DS	R3200S016	DC 260V DC MCC (2PB-1)	AB	3		G-11	643'06"	X																		I	Y	
Yes	16	R3200S020A	DC DIV1 2A-1 130V BATT CHGR	AB	3		G-11	643'06"		X								30405n	Y	Y					Y		I	Y	
Yes	16	R3200S020B	DC DIV1 2A-2 130V BATT CHGR	AB	3		G-11	643'06"		X								30405n	Y	Y					Y		I	Y	
Yes	16	R3200S021A	DC DIV2 2B-1 130V BATT CHGR	AB	3		F-11	643'06"		X								26959n	Y	Y					Y		I	Y	
Yes	16	R3200S021B	DC DIV2 2B-2 130V BATT CHGR	AB	3		F-11	643'06"		X								26959n	Y	Y					Y		I	Y	
Yes	16	R3200S021C	DC DIV2 2B 1-2 130V BATT CHGR	AB	3		F-11	643'06"		X								26959n	Y	Y					Y		I	Y	
Yes	14	R3200S026	DC BATT SPB MAIN DIST CABINET 2PA-2	AB	3		F-11	643'06"		X									Y	Y					Y		I	Y	
Yes	14	R3200S027	DC BATT 2PB MAIN DIST CABINET 2PB-2	AB	3		F-11	643'06"		X									Y	Y					Y		I	Y	
Yes	5	C4103C001B	SLC SOUTH REACTOR PUMP	RB	4	A-33	F-10	659'06"		C41	X								Y	Y					Y		I	Y	MMR
No	0	P5002D014	CA NORTH DRYER PREFILTER	AB	B	B-03	G-15	551'00"		X																	I	N	
Yes	14	R3200S063	DC EDG 11 & 12 130V DIST CABINET 2PA2-13	RHR	2		G-6	613'06"		X									Y	Y					Y		I	N	
Yes	14	R3200S064A	DC RR 130V DIST CABINET 2PB2-5	AB	2	B-15	F-13	613'06"		X									Y	Y					Y		I	N	
Yes	14	R3200S064B	DC RR 130V DIST CABINET 2PB2-6	AB	2		F-13	613'06"		X									Y	Y					Y		I	N	
Yes	14	R3200S065	DC RB 130V DIST CABINET 2PB2-15	AB	3		G-10	643'06"		X									Y	Y					Y		I	N	
Yes	14	R3200S066	DC EDG 13 & 14 130V DIST CABINET 2PB2-14	RHR	2		G-9	617'00"		X									Y	Y					Y		I	N	
No	0	T2300F004	PC PERSON AIR LOCK LEAK TEST VLV	RB	1		C-12	593'02"					X					29348n									I	N	
No	0	T2300F400A	PC VAC BKR CHECK AOV	RB	B			562'08"		X			X														I	Y	
No	0	T2300F400B	PC VAC BKR CHECK AOV	RB	B			562'08"		X			X														I	Y	

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No	0	T2300F400C	PC VAC BKR CHECK AOV	RB	B		E-10	562'08"		X			X														I	Y	
No	0	T2300F400D	PC VAC BKR CHECK AOV	RB	B		E-10	562'08"		X			X														I	Y	
No	0	T2300F400E	PC VAC BKR CHECK AOV	RB	B		C-10	562'08"		X			X														I	Y	
No	0	T2300F400F	PC VAC BKR CHECK AOV	RB	B		C-10	562'08"		X			X														I	Y	
No	0	T2300F400G	PC VAC BKR CHECK AOV	RB	B		C-15	562'08"		X			X														I	Y	
No	0	T2300F400H	PC VAC BKR CHECK AOV	RB	B		C-15	562'08"		X			X														I	Y	
No	0	T2300F400J	PC VAC BKR CHECK AOV	RB	B		E-15	562'08"		X			X														I	Y	
No	0	T2300F400K	PC VAC BKR CHECK AOV	RB	B		E-15	562'08"		X			X														I	Y	
No	0	T2300F400L	PC VAC BKR CHECK AOV	RB	B		F-13	562'08"		X			X														I	Y	
No	0	T2300F400M	PC VAC BKR CHECK AOV	RB	B		F-13	562'08"		X			X														I	Y	
No	7	T2300F409	PC SUPR CHAMBER-RB VAC BKR AOV	RB	B	A-01	D-15	575'05"		X			X														I	Y	
No	7	T2300F410	PC SUPR CHAMBER-RB VAC BKR AOV	RB	B	A-01	D-10	575'05"		X			X														I	Y	
Yes	21	T2302A001	PC SUPR CMBR TORUS	RB	B	A-01	D-12	562'00"					X					Y	Y						Y		I	Y	
No	8	T23F409	PC PC TORUS TO SC VAC BKR VLV T2300F409 SOV	RB	B		270DEG	573'00"		X			X														I	Y	
No	8	T23F410	PC PC TORUS TO SC VAC BKR VLV T2300F410 SOV	RB	B		90DEG	573'00"		X			X														I	Y	
No	18	T23N010A	PC DIV 1 RX TO TORUS VAC BREAKER ISO VALVE PRESS DIFF SWITCH	RB	SB	A-03	B-15	548'00"		X			X														I	N	
No	18	T23N010B	PC DIV 2 RX TO TORUS VAC BKR ISO VLV PRESS DIFF SW	RB	SB	A-02	B-10	548'00"		X			X														I	Y	
No	0	T23N401A	PC SUPR POOL TO DW VAC BKR VLV T2300F400A POS SW	DW	B		20DEG	564'01"					X				28384n										I	Y	
No	0	T23N401B	PC SUPR POOL TO DW VAC BKR VLV T2300F400B POS SW	DW	B		24DEG	564'01"					X				28384n										I	Y	
No	0	T23N401C	PC SUPR POOL TO DW VAC BKR VLV T2300F400C POS SW	DW	B		65DEG	564'01"					X				28384n										I	Y	
No	0	T23N401D	PC SUPR POOL TO DW VAC BKR VLV T2300F400D POS SW	DW	B		69DEG	564'01"					X				28384n										I	Y	
No	0	T23N401E	PC SUPR POOL TO DW VAC BKR VLV T2300F400E POS SW	DW	B		110DEG	564'01"					X				28384n										I	Y	
No	0	T23N401F	PC SUPR POOL TO DW VAC BKR VLV T2300F400F POS SW	DW	B		114DEG	564'01"					X				28384n										I	Y	
No	0	T23N401G	PC SUPR POOL TO DW VAC BKR VLV T2300F400G POS SW	DW	B		245DEG	564'01"					X				28384n										I	Y	
No	0	T23N401H	PC SUPR POOL TO DW VAC BKR VLV T2300F400H POS SW	DW	B		249DEG	564'01"					X				28384n										I	Y	
No	0	T23N401J	PC SUPR POOL TO DW VAC BKR VLV T2300F400J POS SW	DW	B		290DEG	564'01"					X				28384n										I	Y	
No	0	T23N401K	PC SUPR POOL TO DW VAC BKR VLV T2300F400K POS SW	DW	B		294DEG	564'01"					X				28384n										I	Y	
No	0	T23N401L	PC SUPR POOL TO DW VAC BKR VLV T2300F400L POS SW	DW	B		335DEG	564'01"					X				28384n										I	Y	
No	0	T23N401M	PC SUPR POOL TO DW VAC BKR VLV T2300F400M POS SW	DW	B		339DEG	564'01"					X				28384n										I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	0	T23N402A	PC SUPR POOL TO DW VAC BKR VLV T2300F400A POS SW	DW	B		20DEG	564'01"					X				28384n										I	Y	
No	0	T23N402B	PC SUPR POOL TO DW VAC BKR VLV T2300F400B POS SW	DW	B		24DEG	564'01"					X				28384n										I	Y	
No	0	T23N402C	PC SUPR POOL TO DW VAC BKR VLV T2300F400C POS SW	DW	B		65DEG	564'01"					X				28384n										I	Y	
No	0	T23N402D	PC SUPR POOL TO DW VAC BKR VLV T2300F400D POS SW	DW	B		69DEG	564'01"					X				28384n										I	Y	
No	0	T23N402E	PC SUPR POOL TO DW VAC BKR VLV T2300F400E POS SW	DW	B		110DEG	564'01"					X				28384n										I	Y	
No	0	T23N402F	PC SUPR POOL TO DW VAC BKR VLV T2300F400F POS SW	DW	B		114DEG	564'01"					X				28384n										I	Y	
No	0	T23N402G	PC SUPR POOL TO DW VAC BKR VLV T2300F400G POS SW	DW	B		245DEG	564'01"					X				28384n										I	Y	
No	0	T23N402H	PC SUPR POOL TO DW VAC BKR VLV T2300F400H POS SW	DW	B		249DEG	564'01"					X				28384n										I	Y	
No	0	T23N402J	PC SUPR POOL TO DW VAC BKR VLV T2300F400J POS SW	DW	B		290DEG	564'01"					X				28384n										I	Y	
No	0	T23N402K	PC SUPR POOL TO DW VAC BKR VLV T2300F400K POS SW	DW	B		294DEG	564'01"					X				28384n										I	Y	
No	0	T23N402L	PC SUPR POOL TO DW VAC BKR VLV T2300F400L POS SW	DW	B		335DEG	564'01"					X				28384n										I	Y	
No	0	T23N402M	PC SUPR POOL TO DW VAC BKR VLV T2300F400M POS SW	DW	B		339DEG	564'01"					X				28384n										I	Y	
yes	10	T4100B002	RBHVAC 2ND FLR SWGR RM EAST ESSENTIAL COOL UNIT	AB	2	B-11	H-10	613'06"		X			X					Y	Y					Y		I	Y	
yes	10	T4100B003	RBHVAC 2ND FLR SWGR RM WEST ESSENTIAL COOL UNIT	AB	2	B-11	F-10	613'06"		X			X					Y	Y					Y		I	Y	
yes	10	T4100B004	RBHVAC 3RD FLR SWGR RM EAST ESSENTIAL COOL UNIT	AB	3	B-20	H-10	643'06"		X			X					Y	Y					Y		I	Y	
yes	10	T4100B005	RBHVAC 3RD FLR SWGR RM WEST ESSENTIAL COOL UNIT	AB	3	B-20	F-10	643'06"		X			X					Y	Y					Y		I	Y	
yes	10	T4100B006	RBHVAC CR SOUTH DIV2 MULTIZONE AIR SPLY UNIT	AB	5	B-27B	H-13	680'00"		X			X					Y	Y					Y		I	Y	
yes	10	T4100B007	RBHVAC CR NORTH DIV1 MULTIZONE AIR SPLY UNIT	AB	5	B-27A	H-17	680'00"		X			X					Y	Y					Y		I	Y	
Yes	0	T4100B008	CCHVAC SOUTH DIV2 AIR CONDITIONER CH.	AB	5	B-27	G-13	677'06"		X			X				12675n	Y	Y					Y		I	N	
Yes	12	T4100B008	CCHVAC SOUTH DIV2 AIR CONDITIONER CH.	AB	5	B-27	G-13	677'06"										Y	Y					Y		I	N	
yes	11	T4100B008	CCHVAC SOUTH DIV2 AIR CONDITIONER CH.	AB	5	B-27	G-13	677'06"										Y	Y					Y		I	N	
No	5	T4100B008A	RBHVAC CCHVAC SOUTH CHILLER DIV2 OIL PUMP	AB	5	B-27	G-13	677'06"		X			X													I	Y	
Yes	0	T4100B009	CCHVAC NORTH DIV1 AIR CONDITIONER CH	AB	5	B-27A	G-10	677'06"		X			X				12675n	Y	Y					Y		I	N	
Yes	12	T4100B009	CCHVAC NORTH DIV1 AIR CONDITIONER CH	AB	5	B-27A	G-10	677'06"										Y	Y					Y		I	N	
No	5	T4100B009A	RBHVAC CCHVAC N CHILLER DIV1 OIL PUMP	AB	5	B-27A	G-15	677'06"		X			X													I	Y	
No	9	T4100B017	RBHVAC SGTS SOUTH RM ESSENTIAL COOL UNIT	AB	5	B-28S	G-13	677'06"					X				27234y									I	Y	
yes	10	T4100B019	RBHVAC RHR EMERG EQUIP SOUTH COOL UNIT	RB	SB	A-02	B-10	540'00"		X			X					Y	Y					Y		I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
yes	10	T4100B021	RBHVAC RCIC & CORE SPRAY EQUIP NORTH COOL UNIT	RB	SB	A-05	F-17	555'00"		X			X					Y	Y						Y		I	Y	
yes	10	T4100B022	RBHVAC HPCI EMERG EQUIP COOL UNIT	AB	SB	B-01	H-9	540'00"		X			X					Y	Y						Y		I	Y	
yes	10	T4100B029	RBHVAC CA COMP RM NORTH COOL UNIT	AB	B	B-05	H-17	554'00"		X			X					Y	Y						Y		I	Y	
yes	10	T4100B030	RBHVAC CA COMP RM SOUTH COOL UNIT	AB	B	B-05	H-12	554'00"		X			X					Y	Y						Y		I	Y	
yes	10	T4100B034	RBHVAC EECW PUMP RM COOL UNIT	RB	2	A-17	A-15	613'06"		X			X					Y	Y						Y		I	Y	
yes	10	T4100B043	RBHVAC DIV1 BATT CHARGER RM FAN COIL UNITS	AB	3		G-11	651'00"		X			X					Y	Y						Y		I	Y	
Yes	9	T4100C007	RBHVAC EAST BATT RM EAST ESSENTIAL EXH FAN	AB	3	B-22E	G-13	653'00"					X					Y	Y						Y		I	N	
Yes	9	T4100C008	RBHVAC EAST BATT RM WEST ESSENTIAL EXH FAN	AB	3	B-20	G-11	653'00"					X					Y	Y						Y		I	N	
Yes	9	T4100C010	RBHVAC WEST BATT RM WEST ESSENTIAL EXH FAN	AB	3	B-22W	F-11	654'00"					X					Y	Y						Y		I	N	
Yes	10	T4100C030	RBHVAC CR WEST RTRN AIR FAN	AB	5	B-27A	H-17	677'06"		X			X				36663n	Y	Y						Y		I	Y	
Yes	10	T4100C031	RBHVAC CR EAST RTRN AIR FAN	AB	5	B-27A	G-17	677'00"		X			X				36663n	Y	Y						Y		I	Y	
No	5	T4100C040	RBHVAC CONTROL ROOM AIR CONDITIONER SOUTH CHILL WATER PUMP	AB	5	B-25	G-12	677'06"		X			X														I	Y	
No	5	T4100C041	RBHVAC CONTROL ROOM AIR CONDITIONER NORTH CHILL WATER PUMP	AB	5	B-27A	H-17	677'06"		X			X														I	Y	
Yes	9	T4100C053	CCHVAC CABLE TRAY COOL FAN	AB	5	B-27A	G-13	687'06"					X					Y	Y						Y		I	N	
No	7	T4100F031B	RBHVAC RTRN AIR DIV2 DAMPER (A.O.)	AB	4		H-15			X			X														I	Y	
No	7	T4100F033A	RBHVAC OUTSIDE AIR DIV1 DAMPER (A.O.)	AB	4		H-13			X			X														I	Y	
No	7	T4100F033B	RBHVAC OUTSIDE AIR DIV2 DAMPER (A.O.)	AB	4		H-13			X			X														I	Y	
No	7	T4100F035	RBHVAC CR NORTH AIR SPLY DIV1 MULTIZONE SHUTOFF DAMPER (A.O.)	AB	4		H-17			X			X														I	Y	
No	7	T4100F039B	RBHVAC EAST RTRN AIR DIV1 FAN C031 SHUTOFF DAMPER (A.O.)	AB	5	B-27A	G-17			X			X														I	Y	
No	7	T4100F040B	RBHVAC WEST RTRN AIR DIV2 FAN C030 SHUTOFF DAMPER (A.O.)	AB	5	B-27	G-17			X			X														I	Y	
No	7	T4100F042	CCHVAC NORMAL INTAKE AIR DIV2 ISO DAMPER (A.O.)	AB	4	B-24	H-12			X			X														I	Y	
No	7	T4100F068A	RBHVAC NORTH MULTIZONE HEATING COIL DIV1 SHUTOFF DAMPER (A.O.)	AB	5	B-27A	H-15	686'00"		X			X														I	Y	
No	7	T4100F068B	RBHVAC NORTH MULTIZONE COOL COIL DIV1 SHUTOFF DAMPER (A.O.)	AB	5	B-27A	H-13	686'00"		X			X														I	Y	
No	7	T4100F069A	RBHVAC SOUTH MULTIZONE HEATING COIL DIV2 SHUTOFF DAMPER (A.O.)	AB	5	B-27B	H-15			X			X														I	Y	
No	7	T4100F069B	RBHVAC SOUTH MULTIZONE COOL DIV2 SHUTOFF DAMPER (A.O.)	AB	5	B-27B	H-15			X			X														I	Y	
No	DS	T4100F083A	RBHVAC EXH AIR DIV1 & 2 FIRE DAMPER	AB	4	B-24	H-13			X			X														I	Y	
No	DS	T4100F083B	RBHVAC EXH AIR DIV1 & 2 FIRE DAMPER	AB	4	B-24	H-13			X			X														I	N	
No	DS	T4100F084A	RBHVAC NORMAL AIR INTAKE DIV1 & 2 FIRE DAMPER	AB	4	B-24	H-13			X			X														I	N	
No	DS	T4100F084B	RBHVAC NORMAL AIR INTAKE DIV1 & 2 FIRE DAMPER	AB	4	B-24	H-13			X			X														I	N	
No	DS	T4100F085	RBHVAC MULTIZONE INTAKE SHUTOFF DIV2 FIRE DAMPER	AB	4	B-24	H-13			X			X														I	N	
No	DS	T4100F086	RBHVAC RELAY RM INLET FIRE DAMPER	AB	2	B-15	F-16			X			X														I	N	
No	DS	T4100F087	RBHVAC RELAY RM EXH FIRE DAMPER	AB	2	B-15	F-13			X			X														I	N	
No	DS	T4100F088	RBHVAC CABLE SPREAD RM EXH FIRE DAMPER	AB	3		F-13			X			X														I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	DS	T4100F089	RBHVAC CABLE SPREAD RM INLET FIRE DAMPER	AB	3		F-13			X			X														I	N	
No	DS	T4100F099	RBHVAC MULTIZONE AIR CONDITIONER DIV2 INTAKE FIRE DAMPER	AB	5	B-27	H-12			X			X														I	N	
No	DS	T4100F100	RBHVAC MULTIZONE AIR CONDITIONER DIV2 EXH FIRE DAMPER	AB	5	B-27	H-13			X			X														I	N	
No	DS	T4100F101	RBHVAC MULTIZONE AIR CONDITIONER DIV1 EXH FIRE DAMPER	AB	5	B-27A	H-15			X			X														I	N	
No	DS	T4100F102	RBHVAC CR NORTH AIR SPLY UNIT FIRE DAMPER	AB	5	B-27A	H-15			X			X														I	N	
No	DS	T4100F109	RBHVAC WEST RTRN AIR FAN DIV2 INLET FIRE DAMPER	AB	5	B-27A	G-17	677'00"		X			X														I	N	
No	DS	T4100F110	RBHVAC EAST RTRN AIR FAN DIV1 INLET FIRE DAMPER	AB	5	B-27A	G-17	677'00"		X			X														I	N	
No	7	T4100F157A	RBHVAC NORTH MULTIZONE RELAY RM MIXING DAMPER (A.O.)	AB	5	B-27B	H-13	677'06"		X			X														I	N	
No	7	T4100F157B	RBHVAC SOUTH MULTIZONE RELAY RM MIXING DAMPER (A.O.)	AB	5	B-27B	H-15	677'06"		X			X														I	N	
No	7	T4100F158A	RBHVAC NORTH MULTIZONE CABLE SPREAD RM MIXING DAMPER (A.O.)	AB	5	B-27B	H-13	677'06"		X			X														I	N	
No	7	T4100F158B	RBHVAC SOUTH MULTIZONE CABLE SPREAD RM MIXING DAMPER (A.O.)	AB	5	B-27B	H-15	677'06"		X			X														I	N	
No	7	T4100F159A	RBHVAC NORTH MULTIZONE CR MIXING DAMPER (A.O.)	AB	5	B-27B	H-13	677'06"		X			X														I	N	
No	7	T4100F159B	RBHVAC SOUTH MULTIZONE CR MIXING DAMPER (A.O.)	AB	5	B-27B	H-15	677'06"		X			X														I	N	
No	7	T4100F160A	RBHVAC NORTH MULTIZONE COMPUTER RM MIXING DAMPER (A.O.)	AB	5	B-27B	H-13	677'06"		X			X														I	N	
No	7	T4100F160B	RBHVAC SOUTH MULTIZONE COMPUTER RM MIXING DAMPER (A.O.)	AB	5	B-27B	H-15	677'06"		X			X														I	N	
No	7	T4100F161A	RBHVAC NORTH MULTIZONE CR OFFICE MIXING DAMPER (A.O.)	AB	5	B-27B	H-13	677'06"		X			X														I	N	
No	7	T4100F161B	RBHVAC SOUTH MULTIZONE CR OFFICE MIXING DAMPER (A.O.)	AB	5	B-27B	H-15	677'06"		X			X														I	N	
No	7	T4100F162A	RBHVAC NORTH MULTIZONE CR CONFERENCE RM MIXING DAMPER (A.O.)	AB	5	B-27B	H-13	677'06"		X			X														I	N	
No	7	T4100F162B	RBHVAC SOUTH MULTIZONE CR CONFERENCE RM MIXING DAMPER (A.O.)	AB	5	B-27B	H-15	677'06"		X			X														I	N	
No	7	T4100F163A	RBHVAC NORTH MULTIZONE A/C EQUIP AND AND SGTS	AB	5	B-27B	H-13	677'06"		X			X														I	N	
No	7	T4100F163B	RBHVAC SOUTH MULTIZONE A/C EQUIP AND AND SGTS	AB	5	B-27B	H-15	677'06"		X			X														I	N	
No	DS	T4100F903	RBHVAC RTRN AIR FAN SHUTOFF FIRE DAMPER	AB	5	B-25	G-17	677'06"		X			X														I	N	
No	9	T4100M235	RBHVAC SGTS RM EMERG EQUIP COOL FAN DIV1, B016, CMC SW	AB	3		G-16	643'06"					X				12689n										I	N	
No	9	T4100M243	RBHVAC SGTS RM EMERG EQUIP COOL FAN DIV2 (B017) CMC SW	AB	3		G-15	643'06"					X				12689n										I	N	

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	9	T4100M245	RBHVAC RHR RM EMERG EQUIP COOL FAN DIV2 (B019) CMC SW	AB	3		G-15	643'06"					X				12689n										I	N	
No	9	T4100M246	RBHVAC CORE SPRAY RM EMERG EQUIP COOL FAN DIV2 (B020) CMC SW	AB	3		G-15	643'06"					X				12689n										I	N	
No	9	T4100M247	RBHVAC CORE SPRAY RM EMERG EQUIP COOL FAN DIV1 (B021) CMC SW	AB	3		G-16	643'06"					X				12689n										I	N	
No	9	T4100M248	RBHVAC HPCI RM EMERG EQUIP COOL FAN DIV2 (B022) CMC SW	AB	3		G-15	643'06"					X				12689n										I	N	
No	8	T41F025A	RBHVAC RB MULTI-ZONE UNIT SHUTOFF DAMPER F035 DIV1 SOV	AB	5		H-15	677'06"		X			X														I	N	
No	8	T41F025B	RBHVAC RB MULTI-ZONE UNIT SHUTOFF DAMPER F038 DIV2 SOV	AB	5		H-13	677'06"		X			X														I	N	
No	8	T41F026A	RBHVAC RB VENT SYS DISCH DAMPER F039B DIV1 SOV	AB	5		H-15	677'06"		X			X														I	N	
No	8	T41F026B	RBHVAC RB VENT SYS DISCH DAMPER F040B DIV2 SOV	AB	5		H-13	677'06"		X			X														I	N	
No	8	T41F071A	CCHVAC CH COMP UNIT B009 DIV1 SOV	AB	5		G-15	684'00"		X			X														I	N	
No	8	T41F071B	CCHVAC CH COMP UNIT B008 DIV2 SOV	AB	5		G-13	684'00"		X			X														I	N	
No	8	T41F072A	CCHVAC CH COMP UNIT B009 VANE ACTUATOR DIV1 FLOW CTRL VLV	AB	5		G-15	682'00"		X			X														I	N	
No	8	T41F072B	CCHVAC CH COMP UNIT B008 VANE ACTUATOR DIV2 FLOW CTRL VLV	AB	5		G-13	682'00"		X			X														I	N	
No	8	T41F073A	CCHVAC CH COMP UNIT B009 HOT GAS BYP ACTUATOR DIV1 FLOW CTRL VLV	RB	5		G-15	682'00"		X			X														I	N	
No	8	T41F073B	CCHVAC CH COMP UNIT B008 HOT GAS BYP ACTUATOR DIV2 FLOW CTRL VLV	AB	5		G-13	682'00"		X			X														I	N	
No	8	T41F074A	CCHVAC DIV1 CH COMP UNIT B009 PURGE VLV SOV	AB	5	B-27A	G-15	684'00"		X			X														I	N	
No	8	T41F074B	CCHVAC DIV2 CH COMP UNIT B008 PURGE VLV SOV	AB	5	B-27	G-13	684'00"		X			X														I	N	
No	8	T41F083B	RBHVAC DIV2 SGTS RM SPLY ISO DAMPER F036 SOV	AB	5		H-13	677'06"		X			X														I	Y	
No	8	T41F084A	RBHVAC DIV1 NORMAL INTAKE AIR ISO DAMPER F041 (A.O.) SOV	AB	4		H-12	666'00"		X			X														I	Y	
No	8	T41F084B	RBHVAC DIV2 NORMAL INTAKE AIR ISO DAMPER F042 (A.O.) SOV	AB	4		H-12	666'00"		X			X														I	Y	
No	8	T41F085A	RBHVAC DIV1 CC EXH AIR ISO DAMPER F043 (A.O.) SOV	AB	4		G-13	674'06"		X			X														I	Y	
No	8	T41F086A	CCHVAC EQUIP RM RTRN AIR ISO VLV F053 COTNROL DIV1 SOV	AB	5		H-15	677'06"		X			X														I	N	
No	8	T41F086B	CCHVAC EQUIP RM RTRN AIR ISO VLV F054 CTRL DIV2 SOV	AB	5		H-13	677'06"		X			X														I	Y	
No	8	T41F088A	CCHVAC TOILET EXH ISO VLV F062A CTRL DIV1 SOV	AB	5		H-15	677'06"		X			X														I	Y	
No	8	T41F089A	CCHVAC KITCHEN EXH ISO VLV F063A CTRL DIV1 SOV	AB	5		H-15	677'06"		X			X														I	Y	
No	8	T41F092B	CCHVAC DIV2 HEATING COIL MULTI ZONE DAMPER A.O. F069A SOV	AB	5		G-13	677'06"		X			X														I	Y	
No	8	T41F093A	CCHVAC NORTH EMERG AIR INTAKE DAMPER F034C DIV1 SOV	AB	5		G-13	677'06"		X			X														I	Y	
No	8	T41F099A	CCHVAC RTRN AIR DAMPER F031A CTRL DIV1 SOV	AB	5		H-15	677'06"		X			X														I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	8	T41F099B	CCHVAC RTRN AIR DAMPER F031B CTRL DIV2 SOV	AB	5		H-13	677'06"		X			X													I	N	
No	8	T41F100A	CCHVAC RTRN AIR DAMPER F031A CTRL DIV1 SOV	AB	5		H-15	677'06"		X			X													I	Y	
No	8	T41F100B	CCHVAC RTRN AIR DAMPER F031B CTRL DIV2 SOV	AB	5		H-13	677'06"		X			X													I	Y	
No	8	T41F101B	CCHVAC OUTSIDE AIR DAMPER F033B CTRL DIV2 SOV	AB	5		H-13	677'06"		X			X													I	Y	
No	8	T41F102A	CCHVAC OUTSIDE AIR DAMPER F033A CTRL DIV1 SOV	AB	5		H-15	677'06"		X			X													I	N	
No	8	T41F103A	CCHVAC MODULATING EMERG RECIRCULATING DAMPER F061A CTRL DIV1 SOV	AB	5		H-15	677'06"		X			X													I	N	
No	8	T41F104A	CCHVAC SPLY AIR TO MODULATING EMERG RECIRC DAMPER F061A DIV1 SOV	RB	5		H-15	677'06"		X			X													I	N	
No	8	T41F104B	CCHVAC SPLY AIR TO MODULATING EMERG RECIRC DAMPER F061B DIV2 SOV	AB	5		H-13	677'06"		X			X													I	N	
No	8	T41F107A	CCHVAC MULTI-ZONE SHUTOFF DAMPER F068B SOV	AB	5		G-13	677'06"		X			X													I	N	
No	8	T41F107B	CCHVAC MULTI-ZONE SHUTOFF DAMPER F069B SOV	AB	5		G-13	677'06"		X			X													I	Y	
No	8	T41F111A	CCHVAC DIV1 INST RACK H21P296A PRESS CTRL VLV	AB	5	B-27A	H-15	677'06"		X			X													I	N	
No	8	T41F111B	CCHVAC DIV2 INST RACK H21P296B PRESS CTRL VLV	AB	5	B-27	H-13	677'06"		X			X													I	N	
No	8	T41F114A	CCHVAC DIV1 INST RACK H21P296E PRESS CTRL VLV	AB	5	B-27A	G-13	677'06"		X			X													I	N	
No	18	T41F114A	CCHVAC DIV1 INST RACK H21P296E PRESS CTRL VLV	AB	5	B-27A	G-13	677'06"		X			X													I	N	
No	7	T41F132	RBHVAC DIV1 ISO DAMPER F062A PNEU PILOT VLV	AB	4	B-24	G-12	673'00"		X			X													I	Y	
No	7	T41F134	RBHVAC DIV1 ISO DAMPER F063A PNEU PILOT VLV	AB	4	B-24	G-12	673'00"		X			X													I	Y	
No	7	T41F142	RBHVAC DIV2 ISO DAMPER F054 PNEU PILOT VLV	AB	5	B-27A	G-17	684'00"		X			X													I	N	
No	7	T41F143	CCHVAC DIV1 ISO DAMPER F053 PNEU PILOT VLV	AB	5	B-27A	G-17	684'00"		X			X													I	N	
No	8	T41F144	RBHVAC DIV1 SGTS RM SPLY AIR ISO DAMPER F037 (A.O.) SOV	AB	5	B-28N	G-17	677'06"		X			X													I	Y	
No	7	T41F145	RBHVAC DIV2 ISO DAMPER F036 PNEU PILOT VLV	AB	5	B-27	G-17	692'00"		X			X													I	N	
No	7	T41F382A	RBHVAC DIV1 CENTRAVAC MOTOR OUTLET REGULATING VLV	AB	5		G-15	683'02"		X			X													I	N	
No	7	T41F382B	RBHVAC DIV2 CENTRAVAC MOTOR OUTLET REGULATING VLV	AB	5		G-13	683'02"		X			X													I	N	
No	7	T41F384A	RBHVAC DIV1 OIL COOLER OUTLET REGULATING VLV	AB	5		G-15	680'10"		X			X													I	N	
No	7	T41F384B	RBHVAC DIV2 OIL COOLER OUTLET REGULATING VLV	AB	5		G-13	680'09"		X			X													I	N	
No	20	T41K001A	RBHVAC CC VENTILATING TO RTRN AIR AND OUTSIDE AIR DAMPERS DIV1 TEMP CTRLR PNEU	AB	5		H-15	677'06"		X			X													I	N	
No	20	T41K001B	RBHVAC CC VENT TO RTRN AIR DAMPER DIV1 TEMP CTRLR PNEU	AB	5		H-13	677'06"		X			X													I	N	
No	20	T41K007A	RBHVAC RB VENT FOR CC OUTSIDE AIR INTAKE DIV1 TEMP CTRLR ELEC	AB	5	B-27A	H-15	677'06"		X			X													I	N	
No	20	T41K007B	RBHVAC RB VENT FOR CC OUTSIDE AIR INTAKE DIV2 TEMP CTRLR ELEC	AB	5	B-25	H-13	677'06"		X			X													I	N	
No	20	T41K030A	CCHVAC CH COMP UNIT B009 CAPACITY CTRLR	AB	5		G-13	677'06"		X			X													I	N	
No	20	T41K030B	CCHVAC DIV2 CH COMP UNIT B008 CAPACITY CTRLR	AB	5	B-25	G-13	677'06"		X			X				27666n									I	N	
No	20	T41K032A	RBHVAC CC CH COMP B009 ACTUATOR SPEED CTRL MULTIVARIABLE CTRLR ELEC	AB	5		G-13	677'06"		X			X													I	N	

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IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	20	T41K032B	RBHVAC CC CH COMP B008 ACTUATOR SPEED CTRL MULTIVARIABLE CTRLR ELEC	AB	5		H-14	677'06"		X			X													I	N	
No	20	T41K032D	RBHVAC CC CH COMP B008 ACTUATOR SPEED CTRL MULTIVARIABLE CTRLR ELEC	AB	5		H-14	677'06"		X			X													I	N	
No	20	T41K039A	CCHVAC RTRN AIR DAMPER F034A ELEC TO PNEU CONVERTER	AB	5		H-15	677'06"		X			X													I	N	
No	20	T41K039B	CCHVAC RTRN AIR DAMPER F034B ELEC TO PNEU CONVERTER	AB	5		H-13	677'06"		X			X													I	N	
No	20	T41K414	CCHVAC STATIC PRESS CTRLR ELEC	AB	5		H-13	677'06"					X				36457n									I	N	
No	DS	T41L007	CCHVAC DIV2 CH UNIT B008 EVAPORATOR DISCH THERMOWELL	AB	5		G-13	685'03"					X				27666n									I	N	
No	18	T41N022A	CCHVAC CR STATIC PRESS DIFF XMTR STATIC PRESS	AB	3		G-17	651'03"					X				29933n									I	Y	
No	18	T41N022B	CCHVAC CR STATIC PRESS DIFF XMTR STATIC PRESS	AB	3		F-17	651'03"					X				29933n									I	Y	
No	18	T41N024A	CCHVAC COMPUTER RM STATIC PRESS DIFF XMTR STATIC PRESS	AB	4		F-15	661'02"					X				29933n									I	N	
No	18	T41N024B	CCHVAC COMPUTER RM STATIC PRESS DIFF XMTR STATIC PRESS	AB	4		H-13	669'10"					X				29933n									I	N	
No	20	T41N059A	CCHVAC CHILLED WTR PUMP C041 DISCH PRESS DIFF SW	AB	5	B-27A	G-13	677'06"		X			X													I	N	
No	20	T41N059B	CCHVAC DIV2 CHILLED WTR PUMP C040 DISCH PRESS DIFF SW	AB	5	B-27	G-13	677'06"		X			X													I	N	
No	20	T41N060A	CCHVAC VENT CH B009 PRESS DIFF SW	AB	5	B-27A	G-13	677'06"		X			X													I	N	
No	20	T41N060B	CCHVAC SOUTH DIV2 AIR CONDITIONER CH B008 PRESS DIFF SW	AB	5	B-27A	G-13	677'06"		X			X													I	N	
No	20	T41N061A	RBHVAC VENT FOR MULTI ZONE 1 DIV1 TEMP SW PNEU	AB	2	B-15	G-15	618'00"		X			X													I	N	
No	20	T41N061B	RBHVAC VENT FOR MULTI ZONE 1 DIV2 TEMP SW PNEU	AB	2	B-15	G-15	618'00"		X			X													I	N	
No	20	T41N062A	RBHVAC VENT FOR MULTI-ZONE UNIT B007 TO CABLE SPREAD RM ZONE 2 DIV1 TEMP SW PNEU	AB	2	B-15	H-15	635'00"		X			X													I	N	
No	20	T41N062B	RBHVAC VENT FOR MULTI-ZONE UNIT B006 TO CABLE SPREAD RM ZONE 2 DIV2 TEMP SW PNEU	AB	2	B-15A	H-15	635'00"		X			X													I	N	
No	20	T41N063A	CCHVAC VENT FOR MULTI-ZONE UNIT B007 TO CR ZONE 3 DIV1 TEMP SW PNUEMATIC	AB	3		G-17	648'00"		X			X													I	N	
No	20	T41N063B	RBHVAC VENT FOR MULTI-ZONE UNIT B006 TO CR ZONE 3 DIV2 TEMP SW PNEU	AB	3		F-17	648'00"		X			X													I	N	
No	20	T41N065A	RBHVAC VENT FOR MULTI-ZONE UNIT B007 TO CONFERENCE RM ZONE 7 DIV1 TEMP SW PNEU	AB	3		H-13	648'06"		X			X													I	N	
No	19	T41N065B	RBHVAC VENT FOR MULTI-ZONE UNIT B006 TO CONFERENCE RM ZONE 7 DIV2 TEMP SW PNEU	AB	3		H-13	648'00"		X			X													I	N	
No	19	T41N066A	RBHVAC VENT FOR MULTI-ZONE UNIT B007 TO ZONE 6 DIV1 TEMP SW PNEU	AB	3		H-15	648'06"		X			X													I	N	
No	20	T41N066B	RBHVAC VENT FOR MULTI-ZONE UNIT B006 TO ZONE 6 DIV2 TEMP SW PNEU	AB	3		H-15	648'00"		X			X													I	N	

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IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	20	T41N067A	RBHVAC VENT FOR MULTI-ZONE UNIT B007 TO COMPUTER RM ZONE 4 DIV1 TEMP SW PNEU	AB	4		H-13	660'06"		X			X														I	N	
No	20	T41N067B	RBHVAC VENT FOR MULTI-ZONE UNIT B006 TO COMPUTER RM ZONE 4 DIV2 TEMP SW PNEU	AB	4		H-13	664'06"		X			X														I	N	
No	20	T41N068A	RBHVAC MULTI-ZONE UNIT B007 TO ZN8 A/C EQUIP & SGTS RM DIV1 VENT TEMP SW PNEU	AB	5		H-17	682'00"		X			X														I	N	
No	19	T41N068B	RBHVAC MULTI-ZONE UNIT B006 TO ZN8 A/C EQUIP & SGTS RM DIV1 VENT TEMP SW PNEU	AB	5	B-28S	G-13	682'00"		X			X														I	N	
Yes	19	T41N112A	RBHVAC VENT MULTI-ZONE UNIT B007 AFTER COOL COIL TSE	AB	5	B-27A	H-15	683'00"					X				27804n	Y	Y						Y		I	N	
No	19	T41N117A	RBHVAC FOR CC MULTI-ZONE UNIT B007 INTAKE AIR TEMP XMTR PNEU	AB	5		H-17	686'00"		X			X														I	N	
No	19	T41N117B	RBHVAC FOR CC MULTI-ZONE UNIT B006 INTAKE AIR TEMP XMTR PNEU	AB	5	B-27	H-12	683'00"		X			X														I	N	
Yes	19	T41N120A	RBHVAC VENT MULTI-ZONE UNIT B007 AFTER HEATING COIL TSE	AB	5	B-27A	H-15	684'06"					X				35033a	Y	Y						Y		I	N	
Yes	19	T41N120B	RBHVAC CC MULTI-ZONE UNIT B006 AFTER HEATING COIL TSE	AB	5	B-27	H-13	684'06"					X				35033a	Y	Y						Y		I	N	
No	20	T41N132A	RBHVAC RB CC PNL VENT ACROSS MULTI-ZONE UNIT FAN B007 DIV1 PRESS DIFF SW	AB	5	B-27A	H-15	677'06"		X			X														I	N	
No	0	T41N132B	RBHVAC RB CC PNL VENT ACROSS MULTI-ZONE UNIT FAN B006 DIV2 PRESS DIFF SW	AB	5	B-27	H-13	677'06"	X	X			X														I	N	
No	20	T41N134A	RBHVAC DIV1 RB CC DIFF PRESS ACROSS RTRN AIR FAN C031 SW	AB	5	B-27A	H-15	677'06"		X			X														I	N	
No	0	T41N134B	RBHVAC DIV2 RB CC DIFF PRESS ACROSS RTRN AIR FAN C030 SW	AB	5	B-27	H-13	677'06"	X	X			X														I	N	
No	20	T41N222A	RBHVAC CH COMP UNIT B009 EVAPORATOR LO TEMP TSE	AB	5	B-27A	G-13	677'06"		X			X														I	N	
No	20	T41N222B	RBHVAC CH COMP UNIT B008 EVAPORATOR LO TEMP TSE	AB	5	B-25	G-13	677'06"		X			X														I	N	
No	18	T41N309A	RBHVAC CC MULTI-ZONE UNIT B007 RTRN AIR DAMPER CTRL MISC XMTR PNEU	AB	5		H-15	677'06"		X			X														I	N	
No	18	T41N309B	RBHVAC CC MULTI-ZONE UNIT B006 RTRN AIR DAMPER CTRL MISC XMTR PNEU	AB	5		H-13	677'06"		X			X														I	N	
No	18	T41N310A	CCHVAC STATIC RM PRESS CTRL DIV1 MISC XMTR PNEU	AB	5		H-15	677'06"		X			X														I	N	
No	18	T41N310B	CCHVAC STATIC RM PRESS CTRL DIV2 MISC XMTR PNEU	AB	5		H-13	677'06"		X			X														I	N	
No	19	T41N322A	CCHVAC CH COMP UNIT B009 OIL TEMP TSE	AB	5	B-27A	G-13	677'06"		X			X														I	N	
No	19	T41N322B	CCHVAC CH COMP UNIT B008 OIL TEMP TSE	AB	5		G-13	677'06"		X			X														I	N	
No	18	T41N323A	RBHVAC CH COMP UNIT B009 PRESS DIFF SW	AB	5	B-27A	G-13	677'06"		X			X														I	N	
No	18	T41N323B	RBHVAC CH COMP UNIT B008 PRESS DIFF SW	AB	5	B-25	G-13	677'06"		X			X														I	N	
No	19	T41N324A	RBHVAC CH COMP UNIT B009 BEARING OIL TEMP # 1 TSE	AB	5	B-27A	G-13	677'06"		X			X														I	N	

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No	19	T41N324B	RBHVAC CH COMP UNIT B008 BEARING OIL TEMP # 1 TSE	AB	5	B-25	G-13	677'06"		X			X														I	N	
No	19	T41N325A	RBHVAC CH COMP UNIT B009 BEARING OIL TEMP # 2 TSE	AB	5	B-27A	G-13	677'06"		X			X														I	N	
No	19	T41N325B	RBHVAC CH COMP UNIT B008 BEARING OIL TEMP # 2 TSE	AB	5	B-25	G-13	677'06"		X			X														I	N	
No	18	T41N326A	CCHVAC CH COMP UNIT B009 COND ELEC HI PRESS SW	AB	5	B-27A	G-13	677'06"		X			X														I	N	
No	18	T41N326B	CCHVAC CH COMP UNIT B008 COND ELEC HI PRESS SW	AB	5	B-25	G-13	677'06"		X			X														I	N	
No	19	T41N327A	RBHVAC CH COMP UNIT B009 MOTOR TEMP TSE	AB	5	B-27	G-13	677'06"		X			X														I	N	
No	19	T41N327B	RBHVAC CH COMP UNIT B008 MOTOR TEMP TSE	AB	5	B-25	G-13	677'06"		X			X														I	N	
No	19	T41N334A	CCHVAC CH UNIT B009 EVAP DISCH RTD	AB	5		G-15	677'06"		X			X														I	N	
No	18	T41N369A	CCHVAC MULTI-ZONE UNIT B007 BEFORE FAN PRESS ELEM	RB	5		H-17	682'00"		X			X														I	N	
No	18	T41N369B	CCHVAC MULTI-ZONE UNIT B007 AFTER FAN PRESS ELEM	RB	5		H-17	682'00"		X			X														I	N	
No	18	T41N371A	CCHVAC MULTI-ZONE UNIT B006 BEFORE FAN PRESS ELEM	RB	5		H-12	684'06"		X			X														I	N	
No	18	T41N371B	CCHVAC MULTI-ZONE UNIT B006 AFTER FAN PRESS ELEM	RB	5		H-13	684'06"		X			X														I	N	
No	4	T41N456A	RBHVAC CURRENT XFMR	RB				684'00"		X			X														I	N	
No	4	T41N456B	RBHVAC CURRENT XFMR	RB				684'00"		X			X														I	N	
No	18	T41N463A	RBHVAC CC OUTSIDE AIR DAMPER F033A MINIMUM POS RELAY MISC XMTR PNEU	AB	5		H-15	677'06"		X			X														I	N	
No	18	T41N463B	RBHVAC CC OUTSIDE AIR DAMPER F033B MINIMUM POS RELAY MISC XMTR PNEU	AB	5		H-13	677'06"		X			X														I	N	
No	18	T46N013A	SGTS EXH FAN T4600C003 DIV1 FLOW XMTR	AB	5		G-15	682'00"					X				29933n										I	Y	
No	18	T46N013B	SGTS EXH FAN T4600C004 DIV2 FLOW XMTR	AB	5		G-15	682'00"					X				29933n										I	Y	
Yes	9	T4700C001	PCAC REACTOR DW COOLING PRIMARY CNTM DW COOLER FAN	DW	2		190DEG	620'00"					X					N		Y	Y		Y	Y		I	Y	
Yes	9	T4700C003	PCAC REACTOR DW COOLING PRIMARY CNTM DW COOLER FAN	DW	2		140DEG	620'00"					X					N		Y	Y		Y	Y		I	Y	
Yes	9	T4700C004	PCAC REACTOR DW COOLING PRIMARY CNTM DW COOLER FAN	DW	2		0 DEG	600'00"					X					N		Y	Y		Y	Y		I	Y	
No	0	T4800F123	CAC N2 INERTING T48N469 PXE SOURCE VLV	RB	2		E-13	628'02"					X				28769x										I	Y	
No	7	T4800F407	CAC N2 INERTING DW AIR PURGE INLET SPLY VENT AOV	RB	B		B-12	581'00"					X				11193n										I	Y	
Yes	7	T4800F451	CAC N2 INERTING T48N469 PXE SOURCE AOV	RB	2		E-13			X			X				28769x	Y	Y					Y			I	N	
No	0	T4800F451	CAC N2 INERTING T48N469 PXE SOURCE AOV	RB	2		E-13			X			X														I	N	
No	0	T4800F452	CAC N2 INERTING SUPR POOL PRESS SENSING LINE ISO AOV	RB	B	A-01	142DEG	563'06"					X				28769x										I	N	
No	7	T4800F453	CAC N2 INERTING DW PRESS CTRL VENT AOV	RB	B		B-12	576'00"		X			X														I	Y	
No	0	T4800F453	CAC N2 INERTING DW PRESS CTRL VENT AOV	RB	B		B-12	576'00"		X			X														I	Y	
No	7	T4800F454	CAC N2 INERTING DW N2 M/U OTBD ISO AOV	RB	B		B-12	576'00"		X			X														I	Y	

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No	0	T4800F454	CAC N2 INERTING DW N2 M/U OTBD ISO AOV	RB	B		B-12	576'00"		X			X													I	Y	
No	7	T4800F455	CAC N2 INERTING DW N2 M/U INBD ISO AOV	DW	B		180DEG	580'02"		X			X													I	Y	
No	0	T4800F455	CAC N2 INERTING DW N2 M/U INBD ISO AOV	DW	B		180DEG	580'02"		X			X													I	Y	
No	7	T4800F456	CAC N2 INERTING TO SGTS N2 SPLY BYP ISO AOV	RB	B		F-12	576'00"		X			X													I	Y	
No	0	T4800F456	CAC N2 INERTING TO SGTS N2 SPLY BYP ISO AOV	RB	B		F-12	576'00"		X			X													I	Y	
No	7	T4800F457	CAC N2 INERTING TO SGTS N2 SPLY BYP AOV	RB	B		F-12			X			X													I	Y	
No	0	T4800F457	CAC N2 INERTING TO SGTS N2 SPLY BYP AOV	RB	B		F-12			X			X													I	Y	
No	7	T4800F458	CAC N2 INERTING TO SGTS N2 SPLY BYP AOV	RB	B		F-12	576'07"		X			X													I	Y	
No	0	T4800F458	CAC N2 INERTING TO SGTS N2 SPLY BYP AOV	RB	B		F-12	576'07"		X			X													I	Y	
No	DS	T48L409	CAC SPARE DW CTRL M/U VLV VR3-2824 PRESS TAP	RB	2		E-12	630'06"									28769x									I	N	
No	18	T48N466	CAC N2 INERTING SUPR POOL PRESS XMTR ELEC	RB	B		B-9	562'00"									28769y									I	Y	
No	18	T48N469	CAC N2 INERTING DW ELEC PRESS XMTR	RB	2		E-13	613'06"									28769y									I	N	
Yes	18	T48P406	CAC N2 INERTING/PURGE SYS LOCAL INST RACK T48P406	RB	2		E-13	613'06"									28769y	Y	Y						Y	I	N	
No	0	T4901F021	PC PNEU DIV1 ACCUMULATOR TNK B2104A003A RELIEF VLV	DW	2		270DEG	614'06"		X																I	Y	
No	0	T4901F024	PC PNEU DIV1 ACCUMULATOR TNK B2104A003E RELIEF VLV	DW	2		285DEG	616'00"		X																I	Y	
No	0	T4901F027	PC PNEU DIV1 ACCUMULATOR TNK B2104A003D RELIEF VLV	DW	2		310DEG	617'06"		X																I	Y	
No	0	T4901F030	PC PNEU DIV1 ACCUMULATOR TNK B2104A003B RELIEF VLV	DW	2	A-15	320DEG	618'03"		X																I	Y	
No	0	T4901F033	PC PNEU DIV1 ACCUMULATOR TNK B2104A003C RELIEF VLV	DW	2		330DEG	618'03"		X																I	Y	
No	7	T4901F465	PC PNEU DIV1 SPLY OTBD PC ISO AOV	RB	1	A-12	C-13	600'06"		X																I	Y	
No	7	T4901F468	PC PNEU DIV2 SPLY OTBD PC ISO AOV	RB	2		C-11	633'00"		X																I	Y	
No	8	T4901F601	PC PNEU DIV1 INST N2 INERTING SPLY INBD PC ISO MOV	DW	1		220DEG	602'00"		X																I	Y	
No	8	T4901F601	PC PNEU DIV1 INST N2 INERTING SPLY INBD PC ISO MOV	DW	1		220DEG	602'00"		X																I	Y	
No	8	T4901F602	COMPR AIR PC PNEU DIV2 INST N2 INERTING SPY INBRD PC ISO MOV	DW	2		140DEG	630'06"		X																I	Y	
No	18	T49P400B	PC PNEU DIV2 SPLY INST RACK	RB	2		C-11	613'06"		X																I	N	
No	0	T5000F455	PCAM PC RAD MON RACK H21P284 OUTLET SECONDARY ISO AOV DIV2	RB	2		B-12	620'06"		X																I	Y	
No	0	T5000F456	PCAM PC RAD MON RACK H21P284 INLET SECONDARY ISO AOV	RB	2		B-12	621'03"		X																I	Y	
No	8	T50F451	PCAM PC RAD MON SYS OUTLET ISO VLV V5-3084 SOV	RB	2		B-12	620'06"		X																I	Y	
No	20	T50K001A	PCAM PC PRESS MON DIV1 TORUS PRESS MODULATOR SIG CND	AB	2		F-16	613'06"		X																I	Y	
No	18	T50K403A	PCAM DIV1 O2 CONCENTRATION MODULATOR SIG CND ELEC	AB	2		F-16	613'06"									28135n									I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	T50K403B	PCAM DIV2 O2 CONCENTRATION MODULATOR SIG CND ELEC	AB	2		F-14	613'06"									28135n										I	N	
No	18	T50K406A	PCAM DIV1 H2 CONCENTRATION MODULATOR SIG CND	AB	2		F-16	613'06"									28135n										I	N	
No	18	T50K406B	PCAM DIV2 H2 CONCENTRATION MODULATOR SIG CND	AB	2		F-14	613'06"									28135n										I	N	
No	18	T50K800A	PCAM DIV1 PWR SPLY	AB	2		H-16	613'06"		X																	I	Y	
No	18	T50K800B	PCAM DIV2 PWR SPLY	AB	2		G-14	613'06"		X																	I	N	
No	20	T50K801A	PCAM PC PRESS MON DW NR PRESS MODULATOR DIV1 PRESS SIG CND	AB	2		F-16	613'06"		X																	I	Y	
No	20	T50K801B	PCAM PC PRESS MON DW NR PRESS MODULATOR DIV2 PRESS SIGNAL COND	AB	2		F-14	613'06"		X																	I	N	
No	20	T50K802A	PCAM PC PRESS MON DW WR PRESS MODULATOR DIV1 PRESS SIG CND	AB	2		F-16	613'06"		X																	I	Y	
No	20	T50K802B	PCAM PC PRESS MON DW WR PRESS MODULATOR DIV2 PRESS SIG CND	AB	2		F-14	613'06"		X																	I	Y	
No	DS	T50L406A	PCAM DW PRESS DIV1 PRESS TAP	RB	2		E-12	630'03"									28769n										I	N	
Yes	19	T50N400A	PCAM PC TEMP MON DW ABOVE SKIRT DIV1 T/C	DW	4		270DEG	664'07"		X								N		Y	Y			Y	Y		I	Y	
No	18	T50N401A	PCAM PC PRESS MON DW PRESS NR DIV1 PRESS XMTR ELEC	RB	2		F-13	618'00"		X																	I	Y	
No	18	T50N401B	PCAM PC PRESS MON DW PRESS NR DIV2 PRESS XMTR ELEC	RB	2		C-13	618'00"		X																	I	Y	
Yes	19	T50N402A	PCAM PC TEMP MON TORUS SUPR CHAMBER (ATM) DIV1 T/C	RB	B		225DEG	568'06"		X								Y	Y						Y		I	Y	
Yes	19	T50N402B	PCAM PC TEMP MON TORUS SUPR CHAMBER (ATM) DIV2 T/C	RB	B		135DEG	568'06"		X								Y	Y						Y		I	Y	
Yes	19	T50N403A	PCAM PC TEMP MON TORUS SUPR CHAMBER (ATM) DIV1 T/C	RB	B		315DEG	568'06"		X								Y	Y						Y		I	Y	
Yes	19	T50N404A	PCAM PC TEMP MON TORUS SUPR CHAMBER (WTR) DIV1 T/C	RB	B		270DEG	551'04"		X								Y	Y						Y		I	Y	
Yes	19	T50N404B	PCAM PC TEMP MON TORUS SUPR CHAMBER (WTR) DIV2 T/C	RB	B		180DEG	551'04"		X								Y	Y						Y		I	Y	
Yes	19	T50N405B	PCAM PC TEMP MON TORUS SUPR CHAMBER (WTR) DIV2 T/C	RB	B		90DEG	551'04"		X								Y	Y						Y		I	Y	
No	18	T50N406A	PCAM PC TORUS WTR LVL MON TORUS WTR LVL DIV1 LVL XMTR ELEC	RB	SB		A-15	540'00"		X																	I	Y	
No	18	T50N406B	PCAM PC TORUS WTR LVL MON TORUS WTR LVL DIV2 LVL XMTR ELEC	RB	SB		B-9	540'00"		X																	I	Y	
Yes	19	T50N407A	PCAM PC TEMP MON (DW WALL) DIV2 T/C	DW	1		342DEG	597'00"		X								N		Y	Y			Y	Y		I	Y	
Yes	19	T50N407B	PCAM PC TEMP MON (DW ATM) DIV1 T/C	DW	1		18DEG	597'00"		X								N		Y	Y			Y	Y		I	Y	
Yes	19	T50N408B	PCAM PC TEMP MON (DW WALL) DIV2 T/C	DW	1		36DEG	597'00"		X								N		Y	Y			Y	Y		I	Y	
Yes	19	T50N409A	PCAM PC TEMP MON (DW WALL) DIV1 T/C	DW	1		306DEG	597'00"		X								N		Y	Y			Y	Y		I	Y	
Yes	19	T50N409B	PCAM PC TEMP MON (DW ATM) DIV2 T/C	DW	1		54DEG	597'00"		X								N		Y	Y			Y	Y		I	Y	

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IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
Yes	19	T50N410A	PCAM PC TEMP MON (DW ATM) DIV1 T/C	DW	1		288DEG	597'00"		X								N		Y	Y			Y	Y		I	Y	
Yes	19	T50N410B	PCAM PC TEMP MON DIV1 DW SURFACE T/C	DW	1		72DEG	597'00"		X								N		Y	Y			Y	Y		I	Y	
Yes	19	T50N411A	PCAM PC (DW WALL) DIV2 T/C	DW	1		247DEG	597'00"		X								N		Y	Y			Y	Y		I	Y	
Yes	19	T50N411B	PCAM PC (DW ATM TEMP) DIV1 T/C	DW	1		112DEG	595'06"		X								N		Y	Y			Y	Y		I	Y	
Yes	19	T50N412A	PCAM PC TEMP MON (DW ATM) DIV1 T/C	RB			225DEG	597'00"		X								N		Y	Y			Y	Y		I	Y	
Yes	19	T50N413A	PCAM PC TEMP MON (DW WALL) DIV1 T/C	DW	1		202DEG	597'00"		X								N		Y	Y			Y	Y		I	Y	
Yes	19	T50N413B	PCAM PC TEMP MON (DW ATM) DIV2 T/C	DW	1		157DEG	597'00"		X								N		Y	Y			Y	Y		I	Y	
No	18	T50N414A	PCAM DIV1 TORUS WR PRESS XMTR	RB	1		A-13	589'01"		X																	I	Y	
No	18	T50N414B	PCAM DIV2 TORUS WR PRESS XMTR	RB	1		A-11	589'01"		X																	I	Y	
No	18	T50N415A	PCAM PC PRESS MON DW PRESS WR DIV1 PRESS XMTR ELEC	RB	2		F-13	618'00"		X																	I	Y	
No	18	T50N415A	PCAM PC PRESS MON DW PRESS WR DIV1 PRESS XMTR ELEC	RB	2		F-13	618'00"		X																	I	Y	
No	18	T50N415B	PCAM PC PRESS MON DW PRESS WR DIV2 PRESS XMTR ELEC	RB	2		C-13	618'00"		X																	I	Y	
No	18	T50N415B	PCAM PC PRESS MON DW PRESS WR DIV2 PRESS XMTR ELEC	RB	2		C-13	618'00"		X																	I	Y	
No	18	T50N499A	PCAM DIV1 TORUS NR PRESS XMTR	RB	1		A-13	589'01"		X																	I	Y	
No	18	T50N499B	PCAM DIV2 TORUS NR PRESS XMTR	RB	1		A-11	589'01"		X																	I	Y	
No	20	T50R800A	PCAM PC ATMOSPHERIC MON DIV1 DW AND TORUS TEMP RECORDER	AB	3	B-23	G-13	643'06"		X																	I	Y	
No	20	T50R800B	PCAM PC ATMOSPHERIC MON DIV2 DW AND TORUS TEMP RECORDER	AB	3	B-23	F-13	643'06"		X																	I	Y	
No	20	T50R802A	PCAM DW & TORUS PRESS DIV1 PRESS RECORDER ELEC	AB	3		G-13	643'06"		X																	I	Y	
No	20	T50R802B	PCAM PRESS MON DIV2 DW & TORUS PRESS RECORDER	AB	3		F-13	643'06"		X																	I	Y	
No	DS	T50R804A	PCAM PC TORUS WTR LVL MON DIV1 LVL RECORDER ELEC	AB	3		G-13	643'06"		X								27297n									I	Y	
No	DS	T50R804B	PCAM TORUS WTR LVL MON DIV2 PC LVL RECORDER	AB	3	B-23	F-13	643'06"		X								27297n									I	Y	
No	20	T50R804B	PCAM TORUS WTR LVL MON DIV2 PC LVL RECORDER	AB	3	B-23	F-13	643'06"		X																	I	Y	
No	20	T50R806A	PCAM DW ATMOS H2 AND O2 ANALYSIS DIV1 CHEM RECORDER ELEC.	AB	3		G-15	643'06"										27297 28135									I	N	
No	20	T50R806B	PCAM DW ATMOS H2 AND O2 ANALYSIS DIV2 CHEM RECORDER ELEC	AB	3		G-15	643'06"										27297 28135									I	N	
Yes	9	X4103C002	RHRHVAC EDG 11 RM W VENT FAN	RHR	2		D-6	617'00"		X									Y	Y					Y		I	N	
Yes	9	X4103C003	RHRHVAC EDG 12 RM E VENT FAN.	RHR	2		E-5	617'00"		X									Y	Y					Y		I	N	
Yes	9	X4103C004	RHRHVAC EDG 12 RM W VENT FAN	RHR	2		E-6	617'00"		X									Y	Y					Y		I	N	
Yes	9	X4103C005	RHRHVAC EDG 13 RM E VENT FAN	RHR	2		E-8	617'00"		X									Y	Y					Y		I	N	
Yes	9	X4103C006	RHRHVAC EDG 13 W RM VENT FAN	RHR	2		D-8	617'00"		X									Y	Y					Y		I	N	
Yes	9	X4103C008	RHRHVAC EDG 14 RM W VENT FAN	RHR	2		D-7	617'00"		X									Y	Y					Y		I	N	
No	9	X4103C009	RHRHVAC EDG 11 SWGR RM N VENT FAN	RHR	2		E-7	617'00"		X																	I	N	
No	9	X4103C010	RHRHVAC EDG 11 SWGR RM S VENT FAN	RHR	2		E-7	617'00"		X																	I	N	
No	9	X4103C012	RHRHVAC EDG 12 SWGR RM S VENT FAN	RHR	2		E-6	617'00"		X																	I	N	

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IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	9	X4103C013	RHRHVAC EDG 13 SWGR RM N VENT FAN	RHR	2		E-9	617'00"		X																I	N	
No	9	X4103C014	RHRHVAC EDG 13 SWGR RM S VENT FAN	RHR	2		E-9	617'00"		X																I	N	
No	9	X4103C015	RHRHVAC EDG 14 SWGR RM N VENT FAN	RHR	2		E-8	617'00"		X																I	N	
No	9	X4103C016	RHRHVAC EDG 14 SWGR RM S VENT FAN	RHR	2		E-8	617'00"		X																I	N	
No	9	X4103C017	RHRHVAC S PMP RM N VENT FAN	RHR	1		G-1	590'00"		X																I	N	
No	9	X4103C018	RHRHVAC S PMP RM S VENT FAN	RHR	1		G-1	590'00"		X																I	N	
No	9	X4103C019	RHRHVAC N PMP RM N VENT FAN	RHR	1		G-13	590'00"		X																I	N	
No	9	X4103C020	RHRHVAC N PMP RM S VENT FAN	RHR	1		G-13	590'00"		X																I	N	
No	DS	X4103F101	RHRHVAC EDG 11 SWGR RM EXH AIR GRAVITY DMPR	RHR	2		D-6			X																I	N	
No	DS	X4103F102	RHRHVAC EDG 11 OIL STRG RM EXH AIR GRAVITY DMPR	RHR	2		D-6			X																I	N	
No	0	X4103F103	RHRHVAC EDG 11 SWGR RM OUTDOOR AIR IN DMPR	RHR	2		E-7	632'00"		X																I	N	
No	0	X4103F104	RHRHVAC EDG 11 SWGR RM RTRN AIR DMPR	RHR	2		E-7	632'00"		X																I	N	
No	0	X4103F106	RHRHVAC EDG 11 SWGR RM N FAN C009 DISCH DMPR	RHR	2		E-7	629'00"		X																I	N	
No	0	X4103F108	RHRHVAC EDG 11 SWGR RM S FAN DISCH DMPR	RHR	2		E-7	625'00"		X																I	N	
No	0	X4103F109	RHRHVAC EDG 11 SWGR RM EXH AIR DMPR	RHR	2		E-6	632'00"		X																I	N	
No	DS	X4103F113	RHRHVAC EDG 12 SWGR RM EXH AIR GRAVITY	RHR	2		D-6			X																I	N	
No	DS	X4103F114	RHRHVAC EDG 12 OIL STRG RM EXH AIR GRAVITY	RHR	2		D-5			X																I	N	
No	0	X4103F115	RHRHVAC EDG 12 SWGR RM OUTDOOR AIR IN DMPR	RHR	2		E-6	623'00"		X																I	N	
No	0	X4103F116	RHRHVAC EDG 12 SWGR RM RTRN AIR DMPR	RHR	2		D-6	623'00"		X																I	N	
No	0	X4103F118	RHRHVAC EDG 12 SWGR RM N FAN C011 DISCH DMPR	RHR	2		E-6	623'00"		X																I	N	
No	0	X4103F120	RHRHVAC EDG 12 SWGR RM S FAN DISCH DMPR	RHR	2		E-6	623'06"		X																I	N	
No	0	X4103F121	RHRHVAC EDG 12 SWGR RM EXH AIR DMPR	RHR	2		E-5	626'00"		X																I	N	
No	DS	X4103F125	RHRHVAC EDG 13 SWGR RM EXH AIR GRAVITY	RHR	2		D-9			X																I	N	
No	DS	X4103F126	RHRHVAC EDG 13 OIL STRG RM EXH AIR GRAVITY	RHR	RF		E-9			X																I	N	
No	0	X4103F127	RHRHVAC EDG 13 SWGR RM OUTDOOR AIR IN	RHR	2		D-9	630'00"		X																I	N	
No	0	X4103F128	RHRHVAC EDG 13 SWGR RM RTRN AIR DMPR	RHR	2		D-9	632'00"		X																I	N	
No	0	X4103F130	RHRHVAC EDG 13 SWGR RM N FAN C013	RHR	2		E-9	625'00"		X																I	N	
No	0	X4103F132	RHRHVAC EDG 13 SWGR RM S FAN X4103C014 DISCH DMPR	RHR	2		E-9	625'00"		X																I	N	
No	0	X4103F133	RHRHVAC EDG 13 SWGR RM EXHE AIR DMPR	RHR	2		E-9	627'00"		X																I	N	
No	DS	X4103F137	RHRHVAC EDG 14 SWGR RM EXH AIR GRAVITY	RHR	2		D-9			X																I	N	
No	DS	X4103F138	RHRHVAC EDG 14 OIL STRG RM EXH AIR GRAVITY	RHR	2		E-7			X																I	N	
No	0	X4103F139	RHRHVAC EDG 14 SWGR RM OUTDOOR AIR IN	RHR	2		D-8	632'00"		X																I	N	
No	0	X4103F140	RHRHVAC EDG 14 SWGR RM RTRN AIR DMPR	RHR	2		D-8	632'00"		X																I	N	
No	0	X4103F142	RHRHVAC EDG 14 SWGR RM N FAN C015	RHR	2		E-8	625'00"		X																I	N	
No	0	X4103F144	RHRHVAC EDG 14 SWGR RM S FAN C016	RHR	2		E-8	624'10"		X																I	N	
No	0	X4103F145	RHRHVAC EDG 14 SWGR RM EXH AIR DMPR	RHR	2		E-7	630'00"		X																I	N	
No	0	X4103F149A	RHRHVAC EDG 11 DSL RM OUTDOOR AIR IN DMPR	RHR	2		E-6	629'00"		X																I	N	
No	DS	X4103F149B	RHRHVAC EDG 11 DSL RM OUTDOOR AIR IN DMPR	RHR	2		E-6	629'00"		X																I	N	
No	0	X4103F149C	RHRHVAC EDG 11 DSL RM OUTDOOR AIR IN DMPR	RHR	2		E-6	629'00"		X																I	N	
No	DS	X4103F149D	RHRHVAC EDG 11 DSL RM OUTDOOR AIR IN DMPR	RHR	2		E-6	629'00"		X																I	N	
No	0	X4103F150	RHRHVAC EDG 11 DSL RM RTRN AIR DMPR	RHR	2		D-6	626'00"		X																I	N	
No	0	X4103F151A	RHRHVAC EDG 12 DSL RM OUTDOOR AIR IN DMPR	RHR	2		E-5	632'00"		X																I	N	

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No	DS	X4103F151B	RHRHVAC EDG 12 DSL RM OUTDOOR AIR IN DMPR	RHR	2		E-5	631'00"		X																I	N	
No	0	X4103F151C	RHRHVAC EDG 12 DSL RM OUTDOOR AIR IN DMPR	RHR	2		E-5	632'00"		X																I	N	
No	DS	X4103F151D	RHRHVAC EDG 12 DSL RM OUTDOOR AIR IN DMPR	RHR	2		D-5	631'00"		X																I	N	
No	0	X4103F152	RHRHVAC EDG 12 DSL RM RTRN AIR DMPR	RHR	2		E-5	625'00"		X																I	N	
No	0	X4103F153A	RHRHVAC EDG 13 DSL RM OUTDOOR AIR IN DMPR	RHR	2		D-8	624'00"		X																I	N	
No	DS	X4103F153B	RHRHVAC EDG 13 DSL RM OUTDOOR AIR IN DMPR	RHR	2		D-8	627'00"		X																I	N	
No	0	X4103F153C	RHRHVAC EDG 13 DSL RM OUTDOOR AIR IN DMPR	RHR	2		D-8	624'00"		X																I	N	
No	DS	X4103F153D	RHRHVAC EDG 13 DSL RM OUTDOOR AIR IN DMPR	RHR	2		D-8	627'00"		X																I	N	
No	0	X4103F154	RHRHVAC EDG 13 DSL RM RTRN AIR DMPR	RHR	2		D-8	630'00"		X																I	N	
No	0	X4103F155A	RHRHVAC EDG 14 DSL RM OUTDOOR AIR IN DMPR	RHR	2		D-7	623'00"		X																I	N	
No	DS	X4103F155B	RHRHVAC EDG 14 DSL RM OUTDOOR AIR IN DMPR	RHR	2		D-7	623'00"		X																I	N	
No	0	X4103F155C	RHRHVAC EDG 14 DSL RM OUTDOOR AIR IN DMPR	RHR	2		D-7	623'00"		X																I	N	
No	DS	X4103F155D	RHRHVAC EDG 14 DSL RM OUTDOOR AIR IN DMPR	RHR	2		D-7	623'00"		X																I	N	
No	0	X4103F156	RHRHVAC EDG 14 DSL RM RTRN AIR DMPR	RHR	2		D-7	630'00"		X																I	N	
No	0	X4103F157	RHRHVAC DIV1 PMP RM OUTDOOR AIR IN DMPR	RHR	1		G-2	601'00"		X																I	N	
No	DS	X4103F158	RHRHVAC DIV1 PMP RM N VENT FAN C017 GRAVITY DMPR	RHR	1		F-2			X																I	N	
No	0	X4103F159	RHRHVAC DIV1 PMP RM N FAN C017 DISCH DMPR	RHR	1		F-2	592'00"		X																I	N	
No	DS	X4103F160	RHRHVAC DIV1 PMP RM S VENT FAN C018 GRAVITY DMPR	RHR	1		F-1			X																I	N	
No	0	X4103F161	RHRHVAC DIV1 PMP RM S VENT FAN C018 DISCH DMPR	RHR	1		F-1	595'00"		X																I	N	
No	0	X4103F162	RHRHVAC DIV1 PMP RM RTRN AIR DMPR	RHR	1		G-2	601'00"		X																I	N	
No	DS	X4103F163	RHRHVAC DIV1 PMP RM EXH AIR GRAVITY DMPR	RHR	1		G-1			X																I	N	
No	0	X4103F164	RHRHVAC DIV2 PMP RM OUTDOOR AIR IN DMPR	RHR	1		G-13	605'00"		X																I	N	
No	DS	X4103F165	RHRHVAC DIV2 PMP N VENT FAN C020 GRAVITY DMPR	RHR	1		G-12			X																I	N	
No	0	X4103F166	RHRHVAC DIV2 N PMP RM N FAN DISCH DMPR	RHR	1		F-13	600'00"		X																I	N	
No	DS	X4103F167	RHRHVAC DIV2 PMP RM S VENT FAN C019 GRAVITY DMPR	RHR	1		F-12			X																I	N	
No	0	X4103F168	RHRHVAC DIV2 PMP RM S FAN C020 DISCH DMPR	RHR	1		F-13	593'03"		X																I	N	
No	0	X4103F169	RHRHVAC DIV2 PMP RM RTRN AIR DMPR	RHR	1		F-13	600'00"		X																I	N	
No	DS	X4103F170	RHRHVAC DIV2 PMP RM EXH AIR GRAVITY DMPR	RHR	1		F-12			X																I	N	
No	DS	X4103F171	RHRHVAC EDG 11 SWGR RM EXH DUCT FIRE	RHR	2		E-7	625'06"		X																I	N	
No	DS	X4103F172	RHRHVAC EDG 11 SWGR RM AIR IN FIRE DMPR	RHR	2		E-7	625'06"		X																I	N	
No	DS	X4103F173	RHRHVAC EDG 11 SWGR VENT EQUIP RM	RHR	2		E-7	625'06"		X																I	N	
No	DS	X4103F177	RHRHVAC EDG 12 SWGR RM EXH DUCT FIRE	RHR	2		E-5			X																I	N	
No	DS	X4103F178	RHRHVAC EDG 12 SWGR RM AIR IN FIRE DMPR	RHR	2		E-6			X																I	N	
No	DS	X4103F179	RHRHVAC EDG 12 SWGR VENT EQUIP RM	RHR	2		E-6			X																I	N	
No	DS	X4103F183	RHRHVAC EDG 13 SWGR RM EXH DUCT FIRE	RHR	2		E-9			X																I	N	
No	DS	X4103F184	RHRHVAC EDG 13 SWGR RM AIR IN FIRE DMPR	RHR	2		E-9			X																I	N	
No	DS	X4103F185	RHRHVAC EDG 13 SWGR VENT EQUIPMNT RM	RHR	2		E-9			X																I	N	
No	DS	X4103F189	RHRHVAC EDG 14 SWGR RM EXH DUCT FIRE	RHR	2		E-8			X																I	N	
No	DS	X4103F190	RHRHVAC EDG 14 SWGR RM AIR IN FIRE DMPR	RHR	2		E-8			X																I	N	
No	DS	X4103F191	RHRHVAC EDG 14 SWGR RM AIR IN FIRE DMPR	RHR	2		E-8			X																I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	X41K001A	RHRHVAC EDG SWGR RM TO OUTSIDE & RTRN AIR DMPRS DIV1 TCE	RHR	2		G-7	617'00"		X																	I	N	
No	18	X41K001B	RHRHVAC EDG SWGR RM TO OUTSIDE & RTRN AIR DMPRS DIV2 TCE	RHR	2		G-9	617'00"		X																	I	N	
No	18	X41K001C	RHRHVAC EDG SWGR RM TO OUTSIDE & RTRN AIR DMPRS DIV1 TCE	RHR	2		G-5	617'00"		X																	I	N	
No	18	X41K001D	RHRHVAC EDG SWGR RM TO OUTSIDE & RTRN AIR DMPRS DIV2 TCE	RHR	2		G-7	617'00"		X																	I	N	
No	18	X41K002A	RHRHVAC EDG RM TO OUTSIDE & RTRN AIR DMPR FANS X4103C001/2 DIV1 TCE	RHR	2		G-7	617'00"		X																	I	N	
No	18	X41K002B	RHRHVAC DIV2 EDG RM TEMP CTRLR	RHR	2		G-9	617'00"		X																	I	N	
No	18	X41K002C	RHRHVAC EDG RM TO OUTSIDE & RTRN AIR DMPR FANS X4103C003/4 DIV1 TCE	RHR	2		G-5	617'00"		X																	I	N	
No	18	X41K002D	RHRHVAC EDG RM TO OUTSIDE & RTRN AIR DMPR FANS X4103C007/8 DIV2 TCE	RHR	2		G-7	617'00"		X																	I	N	
No	18	X41K002E	RHRHVAC EDG RM TO OUTSIDE & RTRN AIR DMPR FANS X4103C001/2 DIV1 TCE	RHR	2		G-7	617'00"		X																	I	N	
No	18	X41K002F	RHRHVAC EDG RM TO OUTSIDE & RTRN AIR DMPR FANS X4103C005 & C006 DIV2 TCE	RHR	2		G-9	617'00"		X																	I	N	
No	18	X41K002G	RHRHVAC EDG RM TO OUTSIDE & RTRN AIR DMPR FANS X4103C003/4 DIV1 TCE	RHR	2		G-5	617'00"		X																	I	N	
No	18	X41K002H	RHRHVAC EDG RM TO OUTSIDE & RTRN AIR DMPR FANS X4103C007/8 DIV2 TCE	RHR	2		G-7	617'00"		X																	I	N	
No	18	X41K003A	HVAC RHR PMP RM TO OUTSIDE & RTRN AIR DMPR VENT FANS X4103C017/018 DIV1 TCE	RHR	1		E-1	590'00"		X																	I	N	
No	18	X41K003B	HVAC RHR PMP RM TO OUT & RTRN AIR DMPR VENT FANS X4103C019/020 & C020 DIV2 TCE	RHR	1		E-13	590'00"		X																	I	N	
Yes	19	X41N056A	HVAC RHR EDG SWGR RM RTRN AIR DMPRS X4103C009 & C010 DIV1 RTD	RHR	2		E-7	622'00"		X								Y	Y					Y			I	N	
Yes	19	X41N056B	HVAC RHR EDG SWGR RM RTRN AIR DMPRS X4103C013 & C014 DIV2 RTD	RHR	2		F-9	622'00"		X								Y	Y					Y			I	N	
Yes	19	X41N056C	HVAC RHR EDG SWGR RM RTRN AIR DMPRS X4103C011 & C012 DIV1 RTD	RHR	2		E-6	622'00"		X								Y	Y					Y			I	N	
Yes	19	X41N057A	HVAC RHR EDG RM TO OUTSIDE & RTRN AIR DMPRS FANS X4103C001 & C002 DIV1 RTD	RHR	2		D-6	622'00"		X								Y	Y					Y			I	N	
Yes	19	X41N057B	HVAC RHR EDG 13 RM TEMP TO OUT & RTRN AIR DMPRS FANS X4103C005/C006 DIV2 RTD	RHR	2		D-8	622'00"		X								Y	Y					Y			I	N	
Yes	19	X41N057C	HVAC RHR DSL RM TO OUTSIDE & RTRN AIR DMPRS FANS X4103C003 & C004 DIV1 RTD	RHR	2		D-5	622'00"		X								Y	Y					Y			I	N	
Yes	19	X41N057D	HVAC RHR EDG RM TO OUTSIDE & RTRN AIR DMPRS FANS X4103C007 & C008 DIV2 RTD	RHR	2		D-7	622'00"		X								Y	Y					Y			I	N	
Yes	19	X41N058A	HVAC RHR EDG PMP RM RTRN AIR DMPRS X4103C017 & C018 DIV1 RTD	RHR	1		F-1	595'00"		X								Y	Y					Y			I	N	

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IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
Yes	19	X41N058B	HVAC RHR EDG PMP RM RTRN AIR DMPRS X4103C019 & C020 DIV2 RTD	RHR	1		F-13	595'00"		X								Y	Y						Y		I	N	
No	8	C4104F004A	SLC EXPLOSIVE (SQUIB) VLV	RB	2	A-17	C-11	630'06"		C41	X							Y							Y		I	Y	MMR
No	8	E1150F004C	RHR DIV1 PUMP "C" SUPR POOL SUCT ISO MOV	RB	SB	A-01	C-13	542'04"		X			X	X	X	X		Y							Y		I	Y	MMR
Yes	8	E1150F016A	RHR DIV1 DRYWELL SPRAY OTBD ISO MOV	RB	1	A-12	B-13	594'04"								X	29195y	Y	Y						Y		I	Y	MMR
No	8	E1150F068A	RHR DIV1 HX "A" SERVICE WATER OUTLET ISO MOV	RB	2	A-22N	C-17	617'03"		X			X	X	X			Y							Y		I	Y	MMR
No	6	E1151C001C	RHRSW SOUTH PUMP ROOM SOUTH SERVICE WATER "C" PUMP	RHR	1	SRHRPR	E-2	590'00"					X	X	X			Y							Y		I	Y	MMR
Yes	9	E1156C001C	RHR SW MDCT FAN	RHR	2	SRHRCT	B-3	617'00"		X			X	X	X		35509y	Y		Y						Y	I	Y	MMR
Yes	5	E2101C001C	CS DIV1 "C" PUMP	RB	SB	A-05	G-15	540'00"					X	X				Y		Y					Y		I	Y	MMR
No	8	E2150F031A	CS DIV1 MIN FLOW/RECIRC ISO MOV	RB	B	A-08	G-15	568'00"		X			X	X				Y							Y		I	Y	MMR
Yes	5	E4101C001C	HPCI TURB DRIVEN OIL PUMP	RB	SB	B-01	H-9	547'00"	X	X			X					Y		Y	Y			Y	Y		I	N	MMR
Yes	8	E4150F001	HPCI TURB STM SPLY ISO MOV	RB	SB	B-01	H-10	549'09"		X			X			X	29484n	Y		Y	Y			Y	Y		I	Y	MMR
No	8	E4150F002	HPCI TURBINE STEAM SUPPLY INBOARD CONTAINMENT ISO MOV	DW	1	A-15	0DEG	586'06"		X			X			X		N		Y	Y			Y	Y		I	Y	X1 MMR
No	7	B2100F076A	NB FEEDWATER SPLY CHECK AOV	RB	1	A-16	F-12	593'00"		X		X	X														I	Y	
No	8	B2103F028B	NB MSL "B" OTBD PC ISO AOV	RB	1	A-16	F-12	589'06"		X		X	X					Y	Y						Y		I	Y	X1 MMR
Yes	8	E4150F004	HPCI BOOSTER PUMP SUCT FROM CST ISO MOV	RB	SB	B-01	G-11	541'01"		X			X				29317y	Y		Y	Y			Y	Y		I	Y	MMR
No	0	E41K805	HPCI PUMP FLOW RATE MODULATOR/ISOLATOR FLOW SIG CND	AB	2	B-15	F-14	613'06"	X	X			X					Y							Y		I	N	MMR
Yes	8	E5150F045	RCIC TURB STM INLET ISO MOV	RB	SB	A-05	F-17	544'00"		X			X				27431y	Y		Y	Y			Y	Y		I	Y	MMR
No	7	B2104F013P	NB MSL "D" RELIEF VLV	DW	2	A-15	312DEG	612'09"		X		X	X														I	Y	
Yes	8	B21F013E	NB DIV1 SRV B2104F013E SOV	DW	1		285DEG	612'09"		X		X	X				29213n	N		Y	Y			Y	Y		I	Y	
Yes	8	G3352F001	RWCU INBOARD CNTM ISO MOV	DW	1	A-15	229DEG	602'10"		X			X			X	26858y	N		Y	Y			Y	Y		I	Y	MMR
No	8	B21F022A	NB MSL "A" INBD PC ISO AOV V17-2003 SOV	DW	1		000DEG	589'06"		X		X	X														I	Y	
No	0	G4100F016	FPCC SKIMMER SURGE TNK TO RESIDUAL HEAT REMOVAL ISO VLV	RB	1		A-12	585'00"							X			X	X						X		I	N	
No	0	G4100F045A	FPCC FUEL STRG POOL DIFFUSER "A" ISO VLV	RB	5	A-43	C-17	682'06"							X			X	X						X		I	N	
Yes	5	B3101C001B	REACTOR RECIRCULATION "B" PUMP	DW	B		135DEG	568'00"										N		Y	Y			Y	Y		I	Y	
Yes	7	C1100F180	CRD SCRAM DISCH VOL VENT AOV	RB	1		C-15	600'07"		X	X		X					Y	Y						Y		I	Y	
No	8	C11F160A	CRD DIV1 SOV	RB	1		G-11	593'00"		X	X		X														I	Y	
Yes	21	E1102C002A	RHR "A" PUMP	RB	SB	A-03	B-17	540'00"					X	X			34844y	Y		Y					Y		I	Y	
Yes	6	E1102C002A	RHR "A" PUMP	RB	SB	A-03	B-17	540'00"					X	X			34844y	Y		Y					Y		I	Y	
Yes	18	H11P606	CRTL & AUX RM PNL (MR ONLY) SRM INST RACK	AB	2		GG-14	613'06"	X		X						27108y	Y	Y		Y				Y		I	N	
No	8	E1150F008	RHR DIV1 & 2 S/D COOLING OTBD CNTM ISO MOV	RB	1	A-12	B-12	591'00"		X			X	X													I	Y	
No	8	E1150F015A	RHR DIV1 LPCI INBD ISO MOV	RB	1		B-13	594'04"		X			X	X													I	Y	
Yes	8	E1150F015B	RHR DIV2 LPCI INBD ISO MOV	RB	1	A-12	B-12	594'04"		X			X	X			27995y	Y	Y						Y		I	Y	
Yes	20	H11P609	CRTL & AUX RM PNL (MR ONLY) RPS TRIP CAB DIV1 INST RACK	AB	2		G-16	613'06"	X	X	X						27108y	Y	Y		Y				Y		I	N	
Yes	20	H11P612	CRTL & AUX RM PNL (MR ONLY) NSSS PROCESS INST CAB DIV2 INST RACK	AB	2	B-15	F-14	613'06"	X	X	X	X	X				27108y	Y	Y		Y				Y		I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
Yes	20	H11P613	CRTL & AUX RM PNL (MR ONLY) NSSS PROCESS INST CAB DIV1 INST RACK	AB	2	B-15	F-16	613'06"	X	X	X	X	X				27108y	Y	Y		Y				Y		I	N	
Yes	20	H11P628	CRTL & AUX RM PNL (MR ONLY) SRV DIV1 ADS RELAY CAB	AB	2	B-15	G-16	613'06"	X	X		X	X				27108y	Y	Y						Y		I	N	
Yes	20	H11P820	CRTL & AUX RM PNL (MR ONLY) TERM CAB DIV2 INST RACK	RB	2		G-13	613'06"	X			X	X	X		X	27108y	Y	Y						Y		I	N	
Yes	20	H11P821	CRTL & AUX RM PNL (MR ONLY) TERM CAB DIV2 INST RACK	AB	2		G-14	613'06"	X			X	X	X		X	27108y	Y	Y						Y		I	N	
Yes	20	H11P856	CRTL & AUX RM PNL (MR ONLY) TERM VACUUM PUMPS, CIRC PUMPS & SPR CAB INST RACK	RB	2		GG-14	613'06"	X		X		X	X	X	X	27108y	Y	Y						Y		I	N	
Yes	20	H11P857	CRTL & AUX RM PNL (MR ONLY) MISC DC RELAY DIV1 INST RACK	AB	2	B-15	G-16	613'06"	X	X			X			X	27108y	Y	Y						Y		I	N	
Yes	20	H11P870	CRTL & AUX RM PNL (MR ONLY) MISC DC RELAY PANEL DIV2 INST RACK	AB	2	B-15	G-14	613'06"	X	X			X			X	27108y	Y	Y						Y		I	N	
Yes	20	H11P898A	CRTL & AUX RM PNL (MR ONLY) AUTO DIGITAL LOAD SEQ CAB DIV1 INST RACK	RB	2	B-15	G-16	613'06"	X	X		X	X	X	X	X	27108y	Y	Y						Y		I	Y	
Yes	8	E4150F006	HPCI MAIN PUMP OUTLET TO FW ISO MOV	RB	1	A-16	G-12	587'03"		X			X				27422n	N		Y					Y		I	Y	
No	8	E4150F075	HPCI TURB EXHAUST LINE VACUUM BREAKER ISO MOV	RB	B	A-01	D-17	579'00"		X			X														I	Y	
Yes	20	H11P898B	CRTL & AUX RM PNL (MR ONLY) AUTO DIGITAL LOAD SEQ CAB DIV2 INST RACK	AB	2	B-15	GG-14	613'06"	X	X		X	X	X	X	X	27108y	Y	Y						Y		I	Y	
Yes	8	E5150F008	RCIC TURB STM SPLY OTBD CNTM ISO MOV	AB	1	A-16	F-12	586'10"		X			X				35380n	Y		Y					Y		I	Y	
Yes	8	E5150F008	RCIC TURB STM SPLY OTBD CNTM ISO MOV	RB	1	A-16	F-12	586'10"					X				28667y	Y		Y					Y		I	Y	
Yes	8	E5150F013	RCIC PUMP SPLY TO FEEDWATER HEADER ISO MOV	RB	1	A-16	G-12	586'06"		X			X				27424n	N		Y					Y		I	Y	
Yes	14	H11P903	CRTL & AUX RM PNL (MR ONLY) 120 VAC DIST PANEL - DIV2 INST RACK	AB	2	B-15	F-13	618'06"		X						X		Y	Y						Y		I	N	
Yes	18	H11P915	CRTL & AUX RM PNL (MR ONLY) PC MON EQUIP & MISC RELAY DIV2 INST RACK	AB	2	B-15	G-14	613'06"	X	X			X	X		X	27108y	Y	Y						Y		I	N	
Yes	8	G3352F220	RWCU DIV2 CNTM ISO MOV	RB	1		F-12	586'06"		X							35621y	N		Y	Y			Y	Y		I	Y	
No	18	H11P923	CRTL & AUX RM PNL (MR ONLY) RCIC TURB CTRL PANEL INST RACK	AB	2	B-15	F-17	618'06"		X			X					Y	Y						Y		I	N	MMR
Yes	20	H11P608	CRTL & AUX RM PNL (MR ONLY) PRNM CTRL AND AUX RM PNL	AB	2		G-14	613'06"	X								27108y	Y	Y						Y		I	Y	
No	18	H21P010	LOC PNL/RACK (MR ONLY) JET PUMP RACK B DIV2 INST RACK	RB	1	A-12	D-10	583'06"		X			X					Y	Y						Y		I	N	
No	18	H21P080	LOC PNL/RACK (MR ONLY) ECCS TRIP UNIT CAB DIV1 INST RACK	AB	4	B-24	F-12	659'06"		X			X	X				Y	Y						Y		I	N	
No	18	H21P081	LOC PNL/RACK (MR ONLY) LOCAL PNL AND RACKS DIV2 ECCS TRIP UNIT INST RACK	AB	4	A-34	F-11	659'06"		X	X	X						Y	Y						Y		I	N	
Yes	20	H11P614	CRTL & AUX RM PNL (MR ONLY) NSSS TEMP REC & LK DET CAB INST RACK	AB	2		F-14	613'06"	X	X								Y	Y						Y		I	Y	
No	18	H21P083	LOC PNL/RACK (MR ONLY) ECCS TRIP UNIT CAB DIV2 INST RACK	AB	4	A-34	F-11	659'06"		X	X	X						Y	Y						Y		I	N	

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IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	H21P085	LOC PNL/RACK (MR ONLY) RPS TRIP UNIT CAB A2 DIV2 INST RACK	AB	4	A-34	F-11	659'06"		X	X	X						Y	Y						Y		I	N	
No	18	H21P087	LOCAL PNL AND RACKS RPS TRIP UNIT CAB B2 DIV2 INST RACK	AB	4	A-34	F-11	659'06"		X	X	X						Y	Y						Y		I	N	
Yes	20	H11P855	CRTL & AUX RM PNL (MR ONLY) TERM AUX BOILER BFP - MISC & ESS CAB INST RACK	RB	2		GG-14	613'06"	X								27108 29183	Y	Y						Y		I	N	
No	18	H21P100	LOC PNL/RACK (MR ONLY) REMOTE RX SHUTDOWN PANEL DIV1 INST RACK	AB	2	B-11	F-10	613'06"		X	X	X	X	X		X		Y	Y						Y		I	N	
Yes	20	H21P296A	LOC PNL/RACK (MR ONLY) CCHVAC DIV1 INST RACK	AB	5	B-27A	H-15	677'06"	X	X	X	X	X	X	X	X		Y	Y						Y		I	N	
No	18	H21P420	LOC PNL/RACK (MR ONLY) HPCI DIV2 TURB AND PILOT VLV INST RACK	RB	SB	B-01	H-11	544'00"		X			X					Y							Y		I	N	
Yes	20	H11P886	CRTL & AUX RM PNL (MR ONLY) H2 ELIMINATION RELAY DIV1 INST RACK	RB	2		G-16	613'06"	X								27108y	Y	Y						Y		I	N	
Yes	20	H11P887	CRTL & AUX RM PNL (MR ONLY) H2 ELIMINATION RELAY DIV2 INST RACK	RB	2		G-14	613'06"	X								27108y	Y	Y						Y		I	N	
Yes	20	H11P888	CRTL & AUX RM PNL (MR ONLY) TERM CAB INST RACK	RB	2		GG-16	613'06"	X								27108y	Y	Y						Y		I	N	
Yes	20	H11P891	CRTL & AUX RM PNL (MR ONLY) BOP TERM CAB INST RACK	RB	2		GG-16	613'06"	X								27108y	Y	Y						Y		I	N	
Yes	18	H21P448	LOC PNL/RACK (MR ONLY) EECW DIV2 INST RACK	RB	2	A-17	D-10	613'06"			X	X	X	X		X	29792y	Y	Y						Y		I	N	
No	18	H21P531	LOC PNL/RACK (MR ONLY) SWGR RM VENT LOCAL CTRL PANEL INST RACK	RB	2		G-10	618'04"										Y	Y						Y		I	N	
No	18	H21P614B	LOC PNL/RACK (MR ONLY) TORUS MON SYS INST RACK	RB	SB	A-02	B-9	541'10"		X			X	X		X		Y	Y						Y		I	N	
Yes	18	H11P914	CRTL & AUX RM PNL (MR ONLY) PCAM EQUIP AND MISC RELAY DIV1 INST RACK	AB	2		H-16	613'06"	X	X							27108y	Y	Y						Y		I	N	
No	20	H21P624	LOC PNL/RACK (MR ONLY) DSD 4160V BUS 64C LOCAL CTRL PANEL LOCAL PNL & RACKS	AB	2	B-11	G-10	613'06"			X	X	X	X		X		Y	Y						Y		I	Y	
Yes	20	H21P628	LOC PNL/RACK (MR ONLY) DSD MCC 72B-2A LOCAL CTRL PANEL LOCAL PNL & RACKS	AB	2	B-11	F-10	613'06"			X	X	X			X	35657y	Y	Y						Y		I	Y	
Yes	20	H21P632	LOCAL PNL & RACKS DSD MCC 72F-4A LOCAL CTRL PANEL	RB	2	A-17	C-10	613'06"			X	X	X			X	29183y	Y	Y						Y		I	N	
No	0	None (See Description)	Anti Siphon Vent Lines, Quantity 2 (Replaced Vacuum Breaker Valves G4100F067A & G4100F068A Via EDP 10109)	RB	5		E-17	682'-6"							X		10109y	X	X						X		I	N	
No	0	None (See Description)	Anti Siphon Vent Lines, Quantity 2 (Replaced Vacuum Breaker Valves G4100F067B & G4100F068B Via EDP 10109)	RB	5		C-17	682'-6"							X		10109y	X	X						X		I	N	
Yes	18	H21P285A	LOC PNL/RACK (MR ONLY) CCHVAC CHILLER DIV1 T4100B009 CTRL PANEL	AB	5		G-13	677'06"		X							34546n	Y	Y						Y		I	N	
Yes	21	P4400B001B	EECW DIV2 PLATE FRAME HX	RB	2	A-17A	E-9	613'06"		X	X	X	X	X	X		29805y	Y	Y						Y		I	N	MMR
No	20	R1600S002A	MCC/DIST CAB 480V MCC 72B-2A	AB	2	B-11	E-10	583'06"																			I	Y	
Yes	18	H21P351	LOC PNL/RACK (MR ONLY) DIESEL GEN RM NO. 12 VENT DIV1 INST RACK	RHR	2		G-5	617'00"	X	X								Y	Y						Y		I	N	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
No	18	H21P377	LOCAL PNL AND RACKS DIV2 PC H2/O2 MON SYS REMOTE CTRL CAB	AB	4	B-24	H-11	659'06"									28135n										I	N	
Yes	21	P4400B001C	EECW DIV1 PLATE FRAME BACKUP HX.	RB	2	A-17	A-12	613'06"			X	X	X	X	X			Y	Y						Y		I	N	MMR
Yes	5	P4400C001A	EMERGENCY EQUIPMENT COOLING WATER DIV1 PUMP	RB	2	A-17	A-15	613'06"			X	X	X	X	X		33703y	Y	Y						Y		I	Y	MMR
Yes	21	R3000A022	EDG 12 LUBE OIL TANK	RHR	1		D-5	590'00"		X								Y	Y						Y		I	Y	
No	18	H21P501B	LOC PNL/RACK (MR ONLY) CA DIV2 PILOT VLVINST RACK	AB	B		H-12	551'00"		X																	I	N	
Yes	14	H21P561	LOC PNL/RACK (MR ONLY) 120 VAC DIST PANEL DIV1 (INDUCTIVE) INST RACK	RB	B		B-15	566'03"	X	X								Y	Y						Y		I	N	
Yes	8	P4400F601B	RBCCW DIV2 RTRN ISO MOV	RB	1	A-12	F-10	600'00"			X	X	X	X	X		29256y	Y	Y						Y		I	Y	MMR
No	4	R3101S001	VP 120VAC-MPU #1 DIV1	AB	2	B-11	F-10	613'06"	X	X																	I	Y	
Yes	21	P4400A002	EECW DIV2 M/U WTR SURGE TANK	RB	2		D-10	618'03"		X								Y	Y						Y		I	Y	
Yes	8	P4400F603B	RBCCW DIV2 SPLY ISO MOV	RB	1	A-12	F-10	600'00"		X	X	X	X	X	X		29992y	Y	Y						Y		I	Y	MMR
Yes	7	P44F400A	EECW DIV1 HX B001A/B001C SW OUTLET TEMP CTRL AOV TEMP CRTL VLV	RB	2	A-17	B-12	614'09"		X	X	X	X	X	X		29792y	Y	Y						Y		I	Y	MMR
No	7	P44F402A	EECW M/U TANK A001 DIV1 V8-2364 LVL CRTL AOV	RB	2	A-17	A-15	615'00"		X	X	X	X	X	X			Y		Y					Y		I	Y	MMR
No	7	P44F402B	EECW M/U TANK A002 DIV2 V8-2362 LVL CRTL AOV	RB	2	A-17	D-9	615'00"		X	X	X	X	X	X			Y		Y					Y		I	Y	MMR
Yes	8	P4400F607A	EECW DIV1 DW RTRN OUTBOARD ISO MOV	RB	B	A-01	C-13	578'06"		X							29183y	Y	Y						Y		I	Y	
Yes	8	P4400F616	EECW DIV1 DW EQUIP INBOARD RTRN ISO MOV	DW	B	A-12	215DEG	579'00"		X							29183y	N		Y	Y			Y	Y		I	Y	
Yes	0	P44K400B	EECW DIV2 ELECTRIC TO PNEUMATIC CONVERTER FOR TEMP CRTL VLV F400B	RB	2	A-17	D-10	613'06"			X	X	X	X	X		29792y	Y	Y						Y		I	N	MMR
Yes	19	P44N401A	EECW HX B001A / B001C RTRN T/C	RB	2	A-17	A-12	625'03"		X	X	X	X	X	X		29805y	Y	Y						Y		I	N	MMR
Yes	0	P44P403A	EECW DIV1 N2 GAS SPLY TO M/U TANK STORAGE RACK	RB	2	A-17	B-13	613'06"			X	X	X	X	X		28251n	Y	Y						Y		I	N	MMR
No	18	P44N410A	M/U TANK A001 PRESS SW ELECTRIC	RB	2	A-17	A-15	613'06"									28251n										I	N	
No	18	P44N425B	SPLY AND RTRN OF DIV2 EECW PDIS	RB	1	A-12	F-11	583'06"		X																	I	N	
Yes	6	P4500C002B	EMERGENCY EQUIPMENT SERVICE WATER NORTH PUMP	RHR	1	NRHRPR	E-11	590'00"			X	X	X	X	X			Y	Y						Y		I	Y	MMR
Yes	12	P5002D001	CA NORTH COMPRESSOR	AB	B	B-02	G-15	551'00"		X	X	X	X	X	X	X		Y	Y						Y		I	Y	MMR
Yes	21	P5002A001	CA NORTH RECEIVER	AB	SB		G-15	540'00"		X								Y	Y						Y		I	N	
No	18	P50P402B	CA DRYER RELAY PANEL INSTRUMENT RACK	RB	B	B-04	G-12	555'00"		X	X	X	X	X	X	X		Y	Y						Y		I	N	MMR
No	0	P5002D013	CA SOUTH DRYER	AB	B	B-03	G-11	551'00"		X																	I	N	
Yes	3	R1400S001C	SWGR 4160V METALCLAD SWITCHGEAR BUS NO. 64C	AB	2	B-11	G-10	613'08"	X	X	X	X	X	X			35621y	P	Y						Y		I	Y	MMR
No	0	P50F519A	CA DIV1 NIAS RX BUILDING RXR INTERIOR DOOR R1-2 SEAL AIR SPY PRESS REGULATOR	RB	1		A-10	588'00"		X																	I	N	
Yes	3	R1400S001E	SWGR 4160V METALCLAD SWITCHGEAR BUS NO. 65E DIV 2 (RHR B, CS, WCRD)	AB	3	B-19	H-10	643'06"	X	X	X	X	X	X			35621y	P	Y						Y		I	Y	MMR
Yes	3	R1400S002C	SWGR 4160V METALCLAD SWITCHGEAR DIESEL GENERATOR BUS NO. 13EC DIV2 (RHRSWB EDG13)	RHR	2	EDG13	F-9	617'00"	X	X		X	X	X			35621y	P	Y						Y		I	Y	MMR
Yes	2	R1400S023	SWGR 480V INDOOR UNIT SUBSTATION BUS NO. 72C (DIV 1)	AB	2	B-11	G-10	613'06"	X	X	X	X	X	X	X	X	36808n	P	Y						Y		I	Y	MMR
Yes	2	R1400S038	SWGR 480V INDOOR UNIT SUBSTATIONS BUS NO 72EC	RHR	2	EDG13	F-8	617'00"		X		X	X	X	X	X	36808n	P	Y						Y		I	Y	MMR
Yes	4	R1400S038A	SWGR 480V UNIT SUBSTATION XFMR NO 72EC DIV 2 (DG 13)	RHR	2		F-8	617'00"	X	X		X	X	X			27108y	P	Y						Y		I	N	MMR

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
Yes	2	R1400S039	SWGR 480V INDOOR UNIT SUBSTATIONS BUS NO 72ED	RHR	2		F-7	617'00"	X	X		X	X	X			36808n	P	Y					Y		I	Y	MMR
No	4	R1400S039B	SWGR DIV2 480V ESS BUS 72ED V REG	RHR	2	EDG14	F-7	617'00"	X	X		X	X	X				P	Y					Y		I	N	MMR
No	1	R1400S050	SWGR AE DIV1 480V MCC 72C-F ISOLATING CONTACTOR	AB	2	B-11	G-10	613'06"		X		X	X	X	X	X		P	Y					Y		I	N	MMR
Yes	21	R3000A004	EDG 14 FO TANK	RHR	1		C-7.1	590'00"		X								Y	Y					Y		I	Y	
Yes	1	R1600S019A	MCC/DIST CAB 480V MCC NO 72ED-2D (EDG 14)	RHR	2	EDG14	E-8	617'00"		X		X	X	X			34492n	P	Y					Y		I	N	MMR
Yes	21	R3000A011	EDG 11 W STARTING AIR RECEIVER	RHR	1	EDG11	C-6	590'00"		X	X	X	X	X	X	X		Y	Y					Y		I	Y	MMR
Yes	5	R3000C001	EDG NO. 11 FUEL OIL TRANSFER PUMP A	RHR	1		E-7	592'00"		X								Y	Y					Y		I	Y	
Yes	12	R3000D002	EDG 12 STARTING AIR COMPRESSOR	RHR	1	EDG12	C-5.1	590'00"		X	X	X	X	X	X	X	26191y	Y	Y					Y		I	N	MMR
Yes	7	R3000F023D	EDG 14 ACS 3-WAY TEMP CTRL VLV	RHR	1	EDG14	E-8	593'00"	X	X	X	X	X	X	X	X		Y	Y					Y		I	N	MMR
Yes	20	R3000S006	EDG 12 LOCAL CTRL PNL	RHR	2		G-6	617'00"			X	X	X	X	X	X	29068y	Y	Y					Y		I	Y	MMR
Yes	21	R3001B004	EDG 14 LUBE OIL HX	RHR	1	EDG14	D-7.1	596'00"		X	X	X	X	X	X	X	28844n	Y	Y					Y		I	N	MMR
Yes	6	R3001C006	EDG 12 SERVICE WATER PUMP	RHR	1	SRHRPR	E-6	594'00"			X	X	X	X	X	X		Y	Y					Y		I	Y	MMR
No	17	R3001S001	EDG 11 4160V	RHR	1	EDG11	E-6.1	595'00"		X	X	X	X	X	X	X	27108y	Y	Y					Y		I	Y	MMR
No	17	R3001S002	EDG 12 4160V	RHR	1		E-5.1	595'00"		X							27108y									I	Y	
No	8	R30FA05B	EDG 13 THREE WAY AIR START CYL 1-6 SOLENOID VLV	RHR	1	EDG13	E-9	592'00"		X	X	X	X	X	X	X		Y	Y					Y		I	Y	MMR
No	8	R30FA05C	EDG 12 THREE WAY AIR START CYL 1-6 SOLENOID VLV	RHR	1		E-6	592'00"		X																I	Y	
No	0	R30NA09D	EDG 14 LUBE OIL CRANKCASE PRESS HI PRESS SW ELEC	RHR	1		D-7	592'00"	X	X																I	N	
Yes	0	R30NA17A	EDG 11 MAGNETIC PICKUP SPEED XMTR	RHR	1	EDG11	E-6	590'00"		X	X	X	X	X	X	X	32976n	Y	Y					Y		I	Y	MMR
Yes	20	R30P310	EDG ENGINE GAUGE PNL	RHR	1			590'00"	X	X								Y	Y					Y		I	N	
Yes	20	R30P320	EDG ENGINE GAUGE PNL	RHR	1	EDG12	E-5	590'00"	X	X	X	X	X	X	X	X		Y	Y					Y		I	N	MMR
Yes	20	R30P330	EDG ENGINE GAUGE PNL	RHR	1		D-8	590'00"	X	X								Y	Y					Y		I	N	
Yes	20	R30P343D	EDG 14 DIV2 SERIES BOOST EXCITER/V REG PNL	RHR	1	EDG14	F-7	590'00"			X	X	X	X	X	X	29068y	Y	Y					Y		I	Y	MMR
No	16	R31K005	VITAL PWR DIST 120 VAC DIV2 2KVA INVERTER	AB	2	B-15	F-14	613'06"		X		X						Y	Y					Y		I	N	MMR
Yes	15	R3200S004	DC 260/130V DUAL BATT (2PB)	AB	3	B-22W	F-12	643'06"		X	X	X	X	X	X	X	26959y	Y	Y					Y		I	Y	MMR
Yes	1	R3200S016	DC 260V DC MCC (2PB-1)	AB	3	B-20	G-11	643'06"		X	X	X	X	X	X	X		Y	Y					Y		I	Y	MMR
Yes	16	R3200S020C	DC DIV1 2A 1-2 130V BATT CHGR	AB	3	B-20	G-11	643'06"		X	X	X	X	X	X	X	30405n	Y	Y					Y		I	Y	MMR
Yes	14	R3200S061A	DC RR 130V DIST CABINET 2PA2-5	AB	2	B-15	F-17	613'06"		X	X	X	X	X	X	X		Y	Y					Y		I	N	MMR
Yes	14	R3200S061B	DC RR 130V DIST CABINET 2PA2-6	AB	2	B-15	F-16	613'06"		X	X	X	X	X	X	X		Y	Y					Y		I	N	MMR
Yes	10	T4100B018	RBHVAC RHR EMERG EQUIP NORTH COOL UNIT	RB	SB		B-15	540'00"	X	X			X				26881y	Y	Y					Y		I	Y	
Yes	14	R3200S062	DC SWGR ROOM 130V DIST CABINET 2PA2-14	AB	2	B-11	H-11	613'06"		X	X	X	X	X	X	X		Y	Y					Y		I	N	MMR
No	0	T2502Y001B	SPENT FUEL POOL WEST FUEL TRANSFER "B" GATE	RB	5		D-13	684'06"					X													I	N	MMR
yes	11	T4100B009	CCHVAC NORTH DIV1 AIR CONDITIONER CH	AB	5	B-27A	G-10	677'06"			X	X	X	X	X	X		Y	Y					Y		I	N	MMR
yes	10	T4100B035	RBHVAC EECW PUMP RM COOL UNIT	RB	2	A-17	E-10	613'06"		X	X	X	X	X	X	X		Y	Y					Y		I	Y	MMR
No	7	T4100F038	RBHVAC CR SOUTH AIR SPLY DIV2 MULIZONE SHUTOFF DAMPER (A.O.)	AB	4	B-24	H-12			X			X													I	Y	
yes	10	T4100B044	RBHVAC DIV2 BATT CHARGER RM FAN COIL UNITS	AB	3	B-22W	F-10	651'06"		X	X	X	X	X	X	X		Y	Y					Y		I	Y	MMR
Yes	9	T4100C009	RBHVAC WEST BATT RM EAST ESSENTIAL EXH FAN	AB	3	B-22W	F-11	653'00"			X	X	X	X	X	X		Y	Y					Y		I	N	
No	8	T41F103B	CCHVAC MODULATING EMERG RECIRCULATING DAMPER F061B CTRL DIV2 SOV	AB	5		H-13	677'06"		X			X													I	N	
Yes	19	T41N334B	CCHVAC CH UNIT B008 EVAP DISCH RTD	AB	5		G-13	677'06"		X			X				27666n	Y	Y					Y		I	N	
No	7	T4100F031A	RBHVAC RTRN AIR DIV1 DAMPER (A.O.)	AB	4		H-15			X			X					Y	Y					Y		I	Y	

Table B-1: Base List 1

IPEEE/IPEEE Outlier/EDP?	Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
Yes	9	T4700C002	PCAC REACTOR DW COOLING PRIMARY CNTM DW COOLER FAN	DW	2		220DEG	620'00"					X					N		Y	Y			Y	Y		I	Y	
Yes	18	T48P405	CAC N2 INERTING/PURGE SYS LOCAL INST RACK T48P405	RB	B		B-9	562'00"									28769y	Y	Y						Y		I	N	
No	7	T4100F041	CCHVAC NORMAL INTAKE AIR DIV1 ISO DAMPER (A.O.)	AB	4	B-24	H-12	670'00"		X	X	X	X	X	X	X		Y	Y						Y		I	Y	
No	8	T41F101A	CCHVAC OUTSIDE AIR DAMPER F033A CTRL DIV1 SOV	AB	5	B-27A	H-15	677'06"		X	X	X	X	X	X	X		Y	Y						Y		I	Y	
Yes	19	T50N400B	PCAM PC TEMP MON DW ABOVE SKIRT DIV2 T/C	DW	4		90DEG	664'07"		X								Y	Y						Y		I	Y	
Yes	19	T50N403B	PCAM PC TEMP MON TORUS SUPR CHAMBER (ATM) DIV2 T/C	RB	B		45DEG	568'06"		X								Y	Y						Y		I	Y	
Yes	19	T50N408A	PCAM PC TEMP MON (DW ATM) DIV2 T/C	DW	1		324DEG	597'00"		X								N		Y	Y			Y	Y		I	Y	
Yes	19	T50N412B	PCAM PC TEMP MON (DW WALL) DIV2 T/C	RB	1		135DEG	597'00"		X								N		Y	Y			Y	Y		I	Y	
Yes	7	T4600F407	SGTS FROM RB EXH SYS ISO AOV	RB	3	A-24	F-13	647'02"								X	11193n	Y	Y						Y		I	Y	MMR
Yes	18	T49P400A	PC PNEU DIV1 SPLY INST RACK	RB	1	A-12	B-13	583'06"	X	X		X				X		Y	Y						Y		I	N	MMR
No	9	X4103C011	RHRHVAC EDG 12 SWGR RM N VENT FAN	RHR	2		E-6	617'00"		X																	I	N	
No	8	T50F450	PCAM PC RAD MON SYS INLET ISO VLV V5-3083 SOV	RB	2	A-17	B-12	621'03"		X						X		Y	Y						Y		I	Y	MMR
Yes	9	X4103C001	RHRHVAC EDG 11 RM E VENT FAN	RHR	2	EDG11	E-6	617'00"		X	X	X	X	X	X	X		Y	Y						Y		I	N	MMR
Yes	7	P44F400B	EECW DIV2 HX B001B/B001D SW OUTLET TEMP CTRL AOV TEMP CRTL VLV	RB	2	A-17	F-10	615'00"		X							29792y	Y		Y					Y		I	Y	
Yes	1	R1600S002A	MCC/DIST CAB 480V MCC 72B-2A	AB	2	B-11	E-10	583'06"	X	X							27108y	P	Y						Y		I	Y	
Yes	9	X4103C007	RHRHVAC EDG 14 RM E VENT FAN	RHR	2	EDG14	E-7	617'00"		X	X	X	X	X	X	X		Y	Y						Y		I	N	MMR
Yes	19	X41N056D	HVAC RHR EDG SWGR RM RTRN AIR DMPRS X4103C015 & C016 DIV2 RTD	RHR	2	EDG14	E-8	622'00"		X	X	X	X	X	X	X		Y	Y						Y		I	N	MMR
Yes	8	P4400F607B	EECW DIV2 DW EQUIP OUTBOARD RTRN ISO MOV	RB	B	A-01	096DEG	578'06"		X							29183y	Y	Y						Y		I	Y	
	2055	**TOTAL**																											
			X1 = Identified as Risk Significant in MWC13 Enclosure H																										
			MMR = Identified as Risk Significant in Maint Rule Conduct Manual Appendix E or Appendix G																										

Table B-2: SWEL 1 Rev 1

Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Part of 50% Selection For Anchor Verification	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
8	B2103F022A	NB MSL "A" INBD PC ISO AOV	DW	1	A-15	2DEG	588'00"		X		X	X			X		N	N		Y	Y			Y	Y		I	Y	X1 MMR
8	B2103F022D	NB MSL "D" INBD PC ISO AOV	DW	1	A-15	358DEG	588'00"		X		X	X			X		N	N		Y	Y			Y	Y		I	Y	X1 MMR
8	B2103F028C	NB MSL "C" OTBD PC ISO AOV	RB	1	A-16	F-12	589'06"		X		X	X			X		N	Y	Y						Y		I	Y	MMR
8	B21F013J	NB DIV1 SRV B2104F013J SOV	DW	1	A-15	314DEG	612'09"		X		X	X				29213n	N	N		Y	Y			Y	Y		I	Y	X1 MMR
8	B21F028D	NB MAIN STEAM ISO FOR RPV STEAM LINE TO TURBINE V17-2008 SOV	RB	1	A-16	F-12	589'06"		X		X	X			X		N	Y	Y						Y		I	Y	MMR
19	B21N116B	NB MSL "B" LEAK DETECT DIV1 RTD	TB	2M	D-36	J-12	638'02"			X	X	X			X	27412n	N	N		Y	Y			Y	Y		I	Y	MMR
21	C1103D128	CRD NUMBER 34-27 HYD CTRL UNIT	RB	1	A-12	D-10	586'06"	X		X		X					Y	Y	Y						Y		I	Y	MMR
8	C11F160B	CRD DIV2 SOV	RB	1	A-12	G-11	593'00"		X	X		X					Y	Y	Y						Y		I	Y	MMR
8	C11F163A	CRD SOV	RB	1	A-12	C-13	587'02"		X	X		X					Y	Y							Y		I	Y	MMR
8	C11F182A	CRD SCRAM DISCH VOL VENT & DRAIN VLV F180 & F181 PILOT AIR 'A' SOV	RB	1	A-12	C-13	583'06"		X	X		X					Y	Y							Y		I	N	MMR
5	C4103C001A	SLC NORTH REACTOR PUMP	RB	4	A-33	F-10	659'06"		C41	X							Y	Y	Y						Y		I	Y	MMR
~~5~~	~~C4103C001B~~	~~SLC SOUTH REACTOR PUMP~~	~~RB~~	~~4~~	~~A-33~~	~~F-10~~	~~659'06"~~		~~C41~~	~~X~~								~~Y~~	~~Y~~						~~Y~~		~~I~~	~~Y~~	~~MMR~~
8	C4104F004A	SLC EXPLOSIVE (SQUIB) VLV	RB	2	A-17	C-11	630'06"		C41	X							N	Y							Y		I	Y	MMR
8	E1150F004C	RHR DIV1 PUMP "C" SUPR POOL SUCT ISO MOV	RB	SB	A-01	C-13	542'04"		X			X	X	X	X		N	Y							Y		I	Y	MMR
8	E1150F016A	RHR DIV1 DRYWELL SPRAY OTBD ISO MOV	RB	1	A-12	B-13	594'04"								X	29195y	N	Y	Y						Y		I	Y	MMR
8	E1150F068A	RHR DIV1 HX "A" SERVICE WATER OUTLET ISO MOV	RB	2	A-22N	C-17	617'03"		X			X	X	X			N	Y							Y		I	Y	MMR
6	E1151C001C	RHRSW SOUTH PUMP ROOM SOUTH SERVICE WATER "C" PUMP	RHR	1	SRHRPR	E-2	590'00"					X	X	X			Y	Y							Y		I	Y	MMR
9	E1156C001C	RHR SW MDCT FAN	RHR	2	SRHRCT	B-3	617'00"		X			X	X	X		35509y	Y	Y		Y						Y	I	Y	MMR
5	E2101C001C	CS DIV1 "C" PUMP	RB	SB	A-05	G-15	540'00"					X	X				N	Y		Y					Y		I	Y	MMR
8	E2150F031A	CS DIV1 MIN FLOW/RECIRC ISO MOV	RB	B	A-08	G-15	568'00"		X			X	X				N	Y							Y		I	Y	MMR
5	E4101C001C	HPCI TURB DRIVEN OIL PUMP	RB	SB	B-01	H-9	547'00"	X	X			X					N	Y		Y	Y			Y	Y		I	N	MMR
8	E4150F001	HPCI TURB STM SPLY ISO MOV	RB	SB	B-01	H-10	549'09"		X			X			X	29484n	N	Y		Y	Y			Y	Y		I	Y	MMR
8	E4150F002	HPCI TURBINE STEAM SUPPLY INBOARD CONTAINMENT ISO MOV	DW	1	A-15	0DEG	586'06"		X			X			X		N	N		Y	Y			Y	Y		I	Y	X1 MMR
8	E4150F004	HPCI BOOSTER PUMP SUCT FROM CST ISO MOV	RB	SB	B-01	G-11	541'01"		X			X				29317y	N	Y		Y	Y			Y	Y		I	Y	MMR
0	E41K805	HPCI PUMP FLOW RATE MODULATOR/ISOLATOR FLOW SIG CND	AB	2	B-15	F-14	613'06"	X	X			X					Y	Y							Y		I	N	MMR
8	E5150F045	RCIC TURB STM INLET ISO MOV	RB	SB	A-05	F-17	544'00"		X			X				27431y	N	Y		Y	Y			Y	Y		I	Y	MMR
8	G3352F001	RWCU INBOARD CNTM ISO MOV	DW	1	A-15	229DEG	602'10"		X			X			X	26858y	N	N		Y	Y			Y	Y		I	Y	MMR
~~18~~	~~H11P606~~	~~CRTL & AUX RM PNL (MR ONLY) SRM INST RACK~~	~~AB~~	~~2~~	~~—~~	~~GG-14~~	~~613'06"~~	~~X~~		~~X~~						~~27108y~~		~~Y~~	~~Y~~		~~Y~~				~~Y~~		~~I~~	~~N~~	
~~20~~	~~H11P609~~	~~CRTL & AUX RM PNL (MR ONLY) RPS TRIP CAB DIV1 INST RACK~~	~~AB~~	~~2~~	~~—~~	~~G-16~~	~~613'06"~~	~~X~~	~~X~~	~~X~~						~~27108y~~		~~Y~~	~~Y~~		~~Y~~				~~Y~~		~~I~~	~~N~~	
20	H11P612	CRTL & AUX RM PNL (MR ONLY) NSSS PROCESS INST CAB DIV2 INST RACK	AB	2	B-15	F-14	613'06"	X	X	X	X	X				27108y	Y	Y	Y		Y				Y		I	N	
20	H11P613	CRTL & AUX RM PNL (MR ONLY) NSSS PROCESS INST CAB DIV1 INST RACK	AB	2	B-15	F-16	613'06"	X	X	X	X	X				27108y	Y	Y	Y		Y				Y		I	N	
20	H11P628	CRTL & AUX RM PNL (MR ONLY) SRV DIV1 ADS RELAY CAB	AB	2	B-15	G-16	613'06"	X	X		X	X				27108y	Y	Y	Y						Y		I	N	
~~20~~	~~H11P820~~	~~CRTL & AUX RM PNL (MR ONLY) TERM CAB DIV2 INST RACK~~	~~RB~~	~~2~~	~~—~~	~~G-13~~	~~613'06"~~	~~X~~			~~X~~	~~X~~	~~X~~		~~X~~	~~27108y~~	Y	~~Y~~	~~Y~~						~~Y~~		~~I~~	~~N~~	
~~20~~	~~H11P821~~	~~CRTL & AUX RM PNL (MR ONLY) TERM CAB DIV2 INST RACK~~	~~AB~~	~~2~~	~~—~~	~~G-14~~	~~613'06"~~	~~X~~			~~X~~	~~X~~	~~X~~		~~X~~	~~27108y~~	Y	~~Y~~	~~Y~~						~~Y~~		~~I~~	~~N~~	
~~20~~	~~H11P856~~	~~CRTL & AUX RM PNL (MR ONLY) TERM VACUUM PUMPS, CIRC PUMPS & SPR CAB INST RACK~~	~~RB~~	~~2~~	~~—~~	~~GG-14~~	~~613'06"~~	~~X~~		~~X~~		~~X~~	~~X~~	~~X~~	~~X~~	~~27108y~~	Y	~~Y~~	~~Y~~						~~Y~~		~~I~~	~~N~~	
20	H11P857	CRTL & AUX RM PNL (MR ONLY) MISC DC RELAY DIV1 INST RACK	AB	2	B-15	G-16	613'06"	X	X			X			X	27108y	Y	Y	Y						Y		I	N	

Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Part of 50% Selection For Anchor Verification	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
20	H11P870	CRTL & AUX RM PNL (MR ONLY) MISC DC RELAY PANEL DIV2 INST RACK	AB	2	B-15	G-14	613'06"	X	X			X			X	27108y	Y	Y	Y						Y		I	N	
20	H11P898A	CRTL & AUX RM PNL (MR ONLY) AUTO DIGITAL LOAD SEQ CAB DIV1 INST RACK	RB	2	B-15	G-16	613'06"	X	X		X	X	X	X	X	27108y	Y	Y	Y						Y		I	Y	
20	H11P898B	CRTL & AUX RM PNL (MR ONLY) AUTO DIGITAL LOAD SEQ CAB DIV2 INST RACK	AB	2	B-15	GG-14	613'06"	X	X		X	X	X	X	X	27108y	Y	Y	Y						Y		I	Y	
14	H11P903	CRTL & AUX RM PNL (MR ONLY) 120 VAC DIST PANEL - DIV2 INST RACK	AB	2	B-15	F-13	618'06"		X						X		Y	Y	Y						Y		I	N	
18	H11P915	CRTL & AUX RM PNL (MR ONLY) PC MON EQUIP & MISC RELAY DIV2 INST RACK	AB	2	B-15	G-14	613'06"	X	X			X	X		X	27108y	Y	Y	Y						Y		I	N	
18	H11P923	CRTL & AUX RM PNL (MR ONLY) RCIC TURB CTRL PANEL INST RACK	AB	2	B-15	F-17	618'06"		X			X					Y	Y	Y						Y		I	N	MMR
18	H21P010	LOC PNL/RACK (MR ONLY) JET PUMP RACK B DIV2 INST RACK	RB	1	A-12	D-10	583'06"		X			X					Y	Y	Y						Y		I	N	
18	H21P080	LOC PNL/RACK (MR ONLY) ECCS TRIP UNIT CAB DIV1 INST RACK	AB	4	B-24	F-12	659'06"		X			X	X				Y	Y	Y						Y		I	N	
18	H21P081	LOC PNL/RACK (MR ONLY) LOCAL PNL AND RACKS DIV2 ECCS TRIP UNIT INST RACK	AB	4	A-34	F-11	659'06"		X	X	X						Y	Y	Y						Y		I	N	
18	H21P083	LOC PNL/RACK (MR ONLY) ECCS TRIP UNIT CAB DIV2 INST RACK	AB	4	A-34	F-11	659'06"		X	X	X						Y	Y	Y						Y		I	N	
18	H21P085	LOC PNL/RACK (MR ONLY) RPS TRIP UNIT CAB A2 DIV2 INST RACK	AB	4	A-34	F-11	659'06"		X	X	X						Y	Y	Y						Y		I	N	
18	H21P087	LOCAL PNL AND RACKS RPS TRIP UNIT CAB B2 DIV2 INST RACK	AB	4	A-34	F-11	659'06"		X	X	X						Y	Y	Y						Y		I	N	
18	H21P100	LOC PNL/RACK (MR ONLY) REMOTE RX SHUTDOWN PANEL DIV1 INST RACK	AB	2	B-11	F-10	613'06"		X	X	X	X	X		X		Y	Y	Y						Y		I	N	
20	H21P296A	LOC PNL/RACK (MR ONLY) CCHVAC DIV1 INST RACK	AB	5	B-27A	H-15	677'06"	X	X	X	X	X	X	X	X		N	Y	Y						Y		I	N	
18	H21P420	LOC PNL/RACK (MR ONLY) HPCI DIV2 TURB AND PILOT VLV INST RACK	RB	SB	B-01	H-11	544'00"		X			X					Y	Y							Y		I	N	
18	H21P448	LOC PNL/RACK (MR ONLY) EECW DIV2 INST RACK	RB	2	A-17	D-10	613'06"			X	X	X	X		X	29792y	Y	Y	Y						Y		I	N	
~~18~~	~~H21P531~~	~~LOC PNL/RACK (MR ONLY) SWGR RM VENT LOCAL CTRL PANEL INST RACK~~	~~RB~~	~~2~~	~~——~~	~~G-10~~	~~618'04"~~										~~Y~~	~~Y~~	~~Y~~						~~Y~~		~~I~~	~~N~~	
18	H21P614B	LOC PNL/RACK (MR ONLY) TORUS MON SYS INST RACK	RB	SB	A-02	B-9	541'10"		X			X	X		X		Y	Y	Y						Y		I	N	
20	H21P624	LOC PNL/RACK (MR ONLY) DSD 4160V BUS 64C LOCAL CTRL PANEL LOCAL PNL & RACKS	AB	2	B-11	G-10	613'06"			X	X	X	X		X		Y	Y	Y						Y		I	Y	
20	H21P628	LOC PNL/RACK (MR ONLY) DSD MCC 72B-2A LOCAL CTRL PANEL LOCAL PNL & RACKS	AB	2	B-11	F-10	613'06"			X	X	X			X	35657y	Y	Y	Y						Y		I	Y	
20	H21P632	LOCAL PNL & RACKS DSD MCC 72F-4A LOCAL CTRL PANEL	RB	2	A-17	C-10	613'06"			X	X	X			X	29183y	Y	Y	Y						Y		I	N	
21	P4400B001B	EECW DIV2 PLATE FRAME HX	RB	2	A-17A	E-9	613'06"		X	X	X	X	X	X		29805y	Y	Y	Y						Y		I	N	MMR
21	P4400B001C	EECW DIV1 PLATE FRAME BACKUP HX.	RB	2	A-17	A-12	613'06"			X	X	X	X	X			Y	Y	Y						Y		I	N	MMR
5	P4400C001A	EMERGENCY EQUIPMENT COOLING WATER DIV1 PUMP	RB	2	A-17	A-15	613'06"			X	X	X	X	X		33703y	Y	Y	Y						Y		I	Y	MMR
8	P4400F601B	RBCCW DIV2 RTRN ISO MOV	RB	1	A-12	F-10	600'00"			X	X	X	X	X		29256y	N	Y	Y						Y		I	Y	MMR
8	P4400F603B	RBCCW DIV2 SPLY ISO MOV	RB	1	A-12	F-10	600'00"		X	X	X	X	X	X		29992y	N	Y	Y						Y		I	Y	MMR
7	P44F400A	EECW DIV1 HX B001A/B001C SW OUTLET TEMP CTRL AOV TEMP CRTL VLV	RB	2	A-17	B-12	614'09"		X	X	X	X	X	X		29792y	N	Y	Y						Y		I	Y	MMR
7	P44F402A	EECW M/U TANK A001 DIV1 V8-2364 LVL CRTL AOV	RB	2	A-17	A-15	615'00"		X	X	X	X	X	X			N	Y		Y					Y		I	Y	MMR
7	P44F402B	EECW M/U TANK A002 DIV2 V8-2362 LVL CRTL AOV	RB	2	A-17	D-9	615'00"		X	X	X	X	X	X			N	Y		Y					Y		I	Y	MMR
0	P44K400B	EECW DIV2 ELECTRIC TO PNEUMATIC CONVERTER FOR TEMP CRTL VLV F400B	RB	2	A-17	D-10	613'06"			X	X	X	X	X		29792y	N	Y	Y						Y		I	N	MMR

Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Part of 50% Selection For Anchor Verification	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
19	P44N401A	EECW HX B001A / B001C RTRN T/C	RB	2	A-17	A-12	625'03"		X	X	X	X	X	X		29805y	N	Y	Y						Y		I	N	MMR
0	P44P403A	EECW DIV1 N2 GAS SPLY TO M/U TANK STORAGE RACK	RB	2	A-17	B-13	613'06"			X	X	X	X	X		28251n	Y	Y	Y						Y		I	N	MMR
6	P4500C002B	EMERGENCY EQUIPMENT SERVICE WATER NORTH PUMP	RHR	1	NRHRPR	E-11	590'00"			X	X	X	X	X			Y	Y	Y						Y		I	Y	MMR
12	P5002D001	CA NORTH COMPRESSOR	AB	B	B-02	G-15	551'00"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	Y	MMR
18	P50P402B	CA DRYER RELAY PANEL INSTRUMENT RACK	RB	B	B-04	G-12	555'00"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	N	MMR
3	R1400S001C	SWGR 4160V METALCLAD SWITCHGEAR BUS NO. 64C	AB	2	B-11	G-10	613'08"	X	X	X	X	X	X			35621y	Y	P	Y						Y		I	Y	MMR
3	R1400S001E	SWGR 4160V METALCLAD SWITCHGEAR BUS NO. 65E DIV 2 (RHR B, CS, WCRD)	AB	3	B-19	H-10	643'06"	X	X	X	X	X	X			35621y	Y	P	Y						Y		I	Y	MMR
3	R1400S002C	SWGR 4160V METALCLAD SWITCHGEAR DIESEL GENERATOR BUS NO. 13EC DIV2 (RHRSWB EDG13)	RHR	2	EDG13	F-9	617'00"	X	X		X	X	X			35621y	Y	P	Y						Y		I	Y	MMR
2	R1400S023	SWGR 480V INDOOR UNIT SUBSTATION BUS NO. 72C (DIV 1)	AB	2	B-11	G-10	613'06"	X	X	X	X	X	X	X	X	36808n	Y	P	Y						Y		I	Y	MMR
2	R1400S038	SWGR 480V INDOOR UNIT SUBSTATIONS BUS NO 72EC	RHR	2	EDG13	F-8	617'00"		X		X	X	X	X	X	36808n	Y	P	Y						Y		I	Y	MMR
~~4~~	~~R1400S038A~~	~~SWGR 480V UNIT SUBSTATION XFMR NO 72EC DIV 2 (DG 13)~~	~~RHR~~	~~2~~	~~——~~	~~F-8~~	~~617'00"~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~			~~27108y~~		~~P~~	~~Y~~						~~Y~~		~~I~~	~~N~~	~~MMR~~
~~2~~	~~R1400S039~~	~~SWGR 480V INDOOR UNIT SUBSTATIONS BUS NO 72ED~~	~~RHR~~	~~2~~	~~——~~	~~F-7~~	~~617'00"~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~			~~36808n~~		~~P~~	~~Y~~						~~Y~~		~~I~~	~~Y~~	~~MMR~~
4	R1400S039B	SWGR DIV2 480V ESS BUS 72ED V REG	RHR	2	EDG14	F-7	617'00"	X	X		X	X	X				Y	P	Y						Y		I	N	MMR
1	R1400S050	SWGR AE DIV1 480V MCC 72C-F ISOLATING CONTACTOR	AB	2	B-11	G-10	613'06"		X		X	X	X	X	X		Y	P	Y						Y		I	N	MMR
1	R1600S019A	MCC/DIST CAB 480V MCC NO 72ED-2D (EDG 14)	RHR	2	EDG14	E-8	617'00"		X		X	X	X			34492n	Y	P	Y						Y		I	N	MMR
21	R3000A011	EDG 11 W STARTING AIR RECEIVER	RHR	1	EDG11	C-6	590'00"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	Y	MMR
12	R3000D002	EDG 12 STARTING AIR COMPRESSOR	RHR	1	EDG12	C-5.1	590'00"		X	X	X	X	X	X	X	26191y	Y	Y	Y						Y		I	N	MMR
7	R3000F023D	EDG 14 ACS 3-WAY TEMP CTRL VLV	RHR	1	EDG14	E-8	593'00"	X	X	X	X	X	X	X	X		N	Y	Y						Y		I	N	MMR
~~20~~	~~R3000S006~~	~~EDG 12 LOCAL CTRL PNL~~	~~RHR~~	~~2~~	~~——~~	~~G-6~~	~~617'00"~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~29068y~~		~~Y~~	~~Y~~						~~Y~~		~~I~~	~~Y~~	~~MMR~~
21	R3001B004	EDG 14 LUBE OIL HX	RHR	1	EDG14	D-7.1	596'00"		X	X	X	X	X	X	X	28844n	Y	Y	Y						Y		I	N	MMR
6	R3001C006	EDG 12 SERVICE WATER PUMP	RHR	1	SRHRPR	E-6	594'00"			X	X	X	X	X	X		Y	Y	Y						Y		I	Y	MMR
17	R3001S001	EDG 11 4160V	RHR	1	EDG11	E-6.1	595'00"		X	X	X	X	X	X	X	27108y	Y	Y	Y						Y		I	Y	MMR
8	R30FA05B	EDG 13 THREE WAY AIR START CYL 1-6 SOLENOID VLV	RHR	1	EDG13	E-9	592'00"		X	X	X	X	X	X	X		N	Y	Y						Y		I	Y	MMR
0	R30NA17A	EDG 11 MAGNETIC PICKUP SPEED XMTR	RHR	1	EDG11	E-6	590'00"		X	X	X	X	X	X	X	32976n	Y	Y	Y						Y		I	Y	MMR
20	R30P320	EDG ENGINE GAUGE PNL	RHR	1	EDG12	E-5	590'00"	X	X	X	X	X	X	X	X		Y	Y	Y						Y		I	N	MMR
20	R30P343D	EDG 14 DIV2 SERIES BOOST EXCITER/V REG PNL	RHR	1	EDG14	F-7	590'00"			X	X	X	X	X	X	29068y	N	Y	Y						Y		I	Y	MMR
16	R31K005	VITAL PWR DIST 120 VAC DIV2 2KVA INVERTER	AB	2	B-15	F-14	613'06"		X		X						Y	Y	Y						Y		I	N	MMR
15	R3200S004	DC 260/130V DUAL BATT (2PB)	AB	3	B-22W	F-12	643'06"		X	X	X	X	X	X	X	26959y	Y	Y	Y						Y		I	Y	MMR
1	R3200S016	DC 260V DC MCC (2PB-1)	AB	3	B-20	G-11	643'06"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	Y	MMR
16	R3200S020C	DC DIV1 2A 1-2 130V BATT CHGR	AB	3	B-20	G-11	643'06"		X	X	X	X	X	X	X	30405n	Y	Y	Y						Y		I	Y	MMR
14	R3200S061A	DC RR 130V DIST CABINET 2PA2-5	AB	2	B-15	F-17	613'06"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	N	MMR
14	R3200S061B	DC RR 130V DIST CABINET 2PA2-6	AB	2	B-15	F-16	613'06"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	N	MMR
14	R3200S062	DC SWGR ROOM 130V DIST CABINET 2PA2-14	AB	2	B-11	H-11	613'06"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	N	MMR
11	T4100B009	CCHVAC NORTH DIV1 AIR CONDITIONER CH	AB	5	B-27A	G-10	677'06"			X	X	X	X	X	X		Y	Y	Y						Y		I	N	MMR
10	T4100B035	RBHVAC EECW PUMP RM COOL UNIT	RB	2	A-17	E-10	613'06"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	Y	MMR
10	T4100B044	RBHVAC DIV2 BATT CHARGER RM FAN COIL UNITS	AB	3	B-22W	F-10	651'06"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	Y	MMR
9	T4100C009	RBHVAC WEST BATT RM EAST ESSENTIAL EXH FAN	AB	3	B-22W	F-11	653'00"			X	X	X	X	X	X		Y	Y	Y						Y		I	N	
~~7~~	~~T4100F031A~~	~~RBHVAC RTRN AIR DIV1 DAMPER (A.O.)~~	~~AB~~	~~4~~	~~——~~	~~H-15~~	~~——~~		~~X~~			~~X~~						~~Y~~	~~Y~~						~~Y~~		~~I~~	~~Y~~	
7	T4100F041	CCHVAC NORMAL INTAKE AIR DIV1 ISO DAMPER (A.O.)	AB	4	B-24	H-12	670'00"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	Y	
8	T41F101A	CCHVAC OUTSIDE AIR DAMPER F033A CTRL DIV1 SOV	AB	5	B-27A	H-15	677'06"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	Y	

Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Part of 50% Selection For Anchor Verification	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
7	T4600F407	SGTS FROM RB EXH SYS ISO AOV	RB	3	A-24	F-13	647'02"								X	11193n	N	Y	Y						Y		I	Y	MMR
18	T49P400A	PC PNEU DIV1 SPLY INST RACK	RB	1	A-12	B-13	583'06"	X	X		X				X		Y	Y	Y						Y		I	N	MMR
8	T50F450	PCAM PC RAD MON SYS INLET ISO VLV V5-3083 SOV	RB	2	A-17	B-12	621'03"		X						X		N	Y	Y						Y		I	Y	MMR
9	X4103C001	RHRHVAC EDG 11 RM E VENT FAN	RHR	2	EDG11	E-6	617'00"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	N	MMR
9	X4103C007	RHRHVAC EDG 14 RM E VENT FAN	RHR	2	EDG14	E-7	617'00"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	N	MMR
19	X41N056D	HVAC RHR EDG SWGR RM RTRN AIR DMPRS X4103C015 & C016 DIV2 RTD	RHR	2	EDG14	E-8	622'00"		X	X	X	X	X	X	X		Y	Y	Y						Y		I	N	MMR
101	TOTAL																												
		X1 = Identified as Risk Significant in MWC13 Enclosure H																											
		MMR = Identified as Risk Significant in Maint Rule Conduct Manual Appendix E or Appendix G																											

DTE Approval Singleton

Date 10/8/12

Table B-3: Base List 2

Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
	G4100F003	FPCC TO FLTR DEMIN INLET HDR INBOARD DRN VLV	RB	B		F-12								X												I	N	
	G4100F011	FPCC FUEL STRG POOL RECIRC VLV	RB	3	A-28	C-13	649'00"							X												I	N	
	G4100F013	FPCC HX B001 OUTLET LINE DRN VLV	RB	3		C-11	643'06"							X												I	N	
	G4100F020	FPCC HXS OUTLET HDR INBOARD VENT VLV	RB	3		C-12	643'06"							X												I	N	
	G4100F036	FPCC RESIDUAL HEAT REMOVAL RTRN ISO VLV	RB	1		A-12	586'06"							X												I	N	
	G4100F040	FPCC RX WELL DIFFUSER "A" LINE INBOARD DRN VLV	RB	3		F-13	643'06"							X												I	N	
	G4100F041A	FPCC RX WELL DIFFUSER "A" LINE INBOARD VENT VLV	RB	3		F-12	658'06"							X												I	N	
	G4100F041B	FPCC RX WELL DIFFUSER "B" LINE INBOARD VENT VLV	RB	4		C-12	671'06"							X												I	N	
	G4100F043	FPCC FUEL STRG POOL DIFFUSER HDR INBOARD DRN VLV	RB	3		C-15	648'06"							X												I	N	
	G4100F044	FPCC FUEL STRG POOL DIFFUSER "A" LINE INBOARD DRN VLV	RB	3		F-17	646'08"							X												I	N	
	G4100F045B	FPCC FUEL STRG POOL DIFFUSER "B" ISO VLV	RB	5	A-43	C-17	682'06"							X												I	N	
	G4100F046	FPCC RESIDUAL HEAT REMOVAL SPLY HDR INBOARD VENT VLV	RB	2		C-15	617'10"							X												I	N	
	G4100F048	FPCC RESIDUAL HEAT REMOVAL SPLY HDR INBOARD DRN ISO VLV	RB	2		C-15	618'00"							X												I	N	
	G4100F050A	FPCC CIRCULATING PMP C001A DISCH INBOARD VENT VLV	RB	3		C-12								X												I	N	
	G4100F050B	FPCC CIRCULATING PMP C001B DISCH INBOARD VENT VLV	RB	3		C-12								X												I	N	
	G4100F061	FPCC LI-R001 SOURCE VLV	RB	3			643'06"							X												I	N	
	G4100F074B	FPCC FPFD PDIS-G41-N188B HI TAP SOURCE VLV	RW	1		N-18	591'06"							X												I	N	
	G4100F075A	FPCC FPFD FXP G41N189A HI SOURCE VLV	RW	1		M-18	591'06"							X												I	N	
	G4100F075B	FPCC FPFD FXP G41N189B HI SOURCE VLV	RW	1		N-18	591'06"							X												I	N	
	G4100F076B	FPCC FPFD FXP G41N189B LOW SOURCE VLV	RW	1		N-18	591'06"							X												I	N	
	G4100F077B	FPCC FPFD CE G41N190B SOURCE VLV	RW	1		M-18	591'06"							X												I	N	
	G4100F080A	FPCC FPFD PI G41R177A SOURCE VLV	RW	1		M-18								X												I	N	
	G4100F080B	FPCC FPFD PI G41R177B SOURCE VLV	RW	1		N-18								X												I	N	
	G4100F081A	FPCC FPFD PI G41R178A SOURCE VLV	RW	1		M-18	589'06"							X												I	N	

Table B-3: Base List 2

Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
	G4100F081B	FPCC FPFD PI G41R178B SOURCE VLV	RW	1		N-18	589'06"							X												I	N	
	G4100F090	FPCC FPFD PI G41R174 SOURCE VLV	RW	1		M-17								X												I	N	
	G4100F097	FPCC FPFD PI G41R175 SOURCE VLV	RW	1		N-18	598'06"							X												I	N	
	G4100F104	FPCC CT-L421 TEST CONN VLV	RW	B		N-18	589'00"							X												I	N	
	G4100F105	FPCC RESIDUAL HEAT REMOVAL RTRN LINE INBOARD VENT VLV	RB	2		C-15	615'09"							X												I	N	
	G4100F106	FPCC RESIDUAL HEAT REMOVAL RTRN LINE INBOARD DRN VLV	RB	2		C-15	618'00"							X												I	N	
	G4100F109B	FPCC STNR G4102D002B OUTLET VENT VLV	RB	3		C-13	643'06"							X												I	N	
	G4100F110B	FPCC STNR G4102D002B DRN VLV	RB	3		C-13	643'06"							X												I	N	
	G4100F111	FPCC FLTR DEMIN OUTLET DRN VLV	TB	B		M-19								X												I	N	
	G4100F112	FPCC FLTR DEMIN INLET DRN VLV	TB	B		M-19								X												I	N	
	G4100F113	FPCC RESIDUAL HEAT REMOVAL SPLY HDR INBOARD VENT VLV	RB	1		A-12	586'03"							X												I	N	
	G4100F116A	FPCC HX G4101B001A VENT VLV	RB	3		C-11	643'06"							X												I	N	
	G4100F116B	FPCC HX G4101B001B VENT VLV	RB	3		C-11	643'06"							X												I	N	
	G4100F117A	FPCC CT-L422A TEST CONN VLV	RB	3		C-12								X												I	N	
	G4100F117B	FPCC CT-L422B TEST CONN VLV	RB	3		C-12								X												I	N	
	G4100F118	FPCC DRNS HDR TO WST DRN VLV	TB	B		L-16								X												I	N	
	G4100F121	FPCC RESIDUAL HEAT REMOVAL RTRN LINE INBOARD VENT VLV	RB	1		A-12	587'06"							X												I	N	
	G4100F125	FPCC FLTR DEMIN D001A OUTLET HDR VENT VLV	RW	1		M-18	598'06"							X												I	N	
	G4100F202	FPCC FPFD PRECOAT PMP G4103C008 DISCH VENT VLV	RW	1		M-17	600'06"							X												I	N	
	G4100F203	FPCC FPFD PRECOAT PMP G4103C008 TO EDUCTOR ISO VLV	RW	1		M-18	589'06"							X												I	N	
	G4100F206	FPCC FPFD PRECOAT RTRN LINE VENT VLV	RW	1		N-17	600'06"							X												I	N	
	G4100F221	FPCC FUEL POOL FLTR DEMIN FLTR DEMIN PRECOAT RTRN LINE DRN VLV	RW	1		N-18	590'06"							X												I	N	
	G4100F222	FPCC FPFD RESIN MILLIPORE FLTR SAMPLE DRN VLV	RW	1		M-17	590'06"							X												I	N	
	G4100F231	FPCC RESIDUAL HEAT REMOVAL RTRN THROTTLE VLV	RB	2		A-12	619'04"							X												I	N	
	G4100F231	FPCC RESIDUAL HEAT REMOVAL RTRN THROTTLE VLV	RB	2		A-12	619'04"							X												I	N	

Table B-3: Base List 2

Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	SEISMIC	TECH SPEC	Risk MWC13/MMR
	G4100F232	FPCC RESIDUAL HEAT REMOVAL RTRN DRN VLV	RB	1		A-12	589'09"							X												I	N	
	G4100F406	FPCC RESIDUAL HEAT REMOVAL RTRN LINE ISO VLV	RB	2	A-17	C-13	637'08"							X												I	N	
	G4100F407	FPCC SKIMMER SURGE TNK SPLY TO ALT DECAY HEAT REMOVAL ISO VLV	RB	2	A-17	C-13	637'08"							X												I	N	
	G4100F408	FPCC RESIDUAL HEAT REMOVAL RTRN LINE ISO VLV UNDERSEAT VENT VLV	RB	2	A-17	C-13	637'08"							X												I	N	
	G4100F409	FPCC SKIMMER SURGE TNK SPLY TO ALT DECAY HEAT REMOVE VLV UNDERSEAT VENT VLV	RB	2	A-17	C-13	637'08"							X												I	N	
	G4153F004	FPCC SKIMMER SURGE TNK DRN MOV	RB	3		C-13	649'00"							X												I	N	
0	G4100F016	FPCC SKIMMER SURGE TNK TO RESIDUAL HEAT REMOVAL ISO VLV	RB	1		A-12	585'00"							X			X	X					X			I	N	
0	G4100F045A	FPCC FUEL STRG POOL DIFFUSER "A" ISO VLV	RB	5	A-43	C-17	682'06"							X			X	X					X			I	N	
0	None (See Description)	Anti Siphon Vent Lines, Quantity 2 (Replaced Vacuum Breaker Valves G4100F067A & G4100F068A Via EDP 10109)	RB	5		E-17	682'-6"							X		10109y	X	X					X			I	N	
0	None (See Description)	Anti Siphon Vent Lines, Quantity 2 (Replaced Vacuum Breaker Valves G4100F067B & G4100F068B Via EDP 10109)	RB	5		C-17	682'-6"							X		10109y	X	X					X			I	N	
59	**TOTAL**																											
		X1 = Identified as Risk Significant in MWC13 Enclosure H																										
		MMR = Identified as Risk Significant in Maint Rule Conduct Manual Appendix E or Appendix G																										

Table B-4: SWEL 2 Rev 1

Class of Equipment (Appx B)	PIS NUMBER	COMPONENT DESCRIPTION	BUILDING	FLOOR	ROOM	GRID	ELEVATION	IPEEE Vulnerabilities	SSEL from IPEEE Table 3-3 Equip	Reactor Reactivity Control	Reactor Coolant Pressure Control	Reactor Coolant Inventory Control	Decay Heat Removal	Fuel Pool Cooling and Cleanup	Containment Function	EDP # New Equipment	Part of 50% Selection For Anchor Verification	Accessible	Dry	Wet	Hot	Cold	Mild	Harsh	Inside	Outside	QA LEVEL	SEISMIC	TECH SPEC	Risk MWC13/MMR
0	G4100F016	FPCC SKIMMER SURGE TNK TO RESIDUAL HEAT REMOVAL ISO VLV	RB	1		A-12	585'00"							X			N	X	X						X		1	I	N	
0	G4100F045A	FPCC FUEL STRG POOL DIFFUSER "A" ISO VLV	RB	5	A-43	C-17	682'06"							X			N	X	X						X		1	I	N	
~~0~~	~~None (See Description)~~	~~Anti Siphon Vent Lines, Quantity 2 (Replaced Vacuum Breaker Valves G4100F067A & G4100F068A Via EDP 10109)~~	~~RB~~	~~5~~		~~E-17~~	~~682'-6"~~							~~X~~		~~10109y~~	~~N~~	~~X~~	~~X~~						~~X~~			~~I~~	~~N~~	
~~0~~	~~None (See Description)~~	~~Anti Siphon Vent Lines, Quantity 2 (Replaced Vacuum Breaker Valves G4100F067B & G4100F068B Via EDP 10109)~~	~~RB~~	~~5~~		~~C-17~~	~~682'-6"~~							~~X~~		~~10109y~~	~~N~~	~~X~~	~~X~~						~~X~~			~~I~~	~~N~~	
2	TOTAL																													
		X1 = Identified as Risk Significant in MWC13 Enclosure H																												
		MMR = Identified as Risk Significant in Maint Rule Conduct Manual Appendix E or Appendix G																												
	DTE Approval																													
	Date	10/18/12																												

Table B-5: SWEL List Revision Justification

The original SWEL list was developed using the guidance from EPRI Technical Report "Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3 Seismic". The field installed configuration of some of the assets does not allow the access required to view all of the anchors and in some cases no anchors could be viewed. Replacement assets are selected to meet the requirements of the SWEL list and have been verified to be adequately accessible.

Original SWEL Asset not fully accessible	Explanation why asset is replaced.	Replacement Asset	Justification for revised asset
C4103C001B Standby Liquid Control Pump B [Equip Classification = 5-horizontal pump]	Insulation prevents full view of anchor bolts for the B Pump.	C4103C001A Standby Liquid Control Pump A [Equip Classification = 5 – horizontal pump]	The A Pump configuration allows full view of the anchors. The replacement is the other train of C4103C001B.
H11P606 CRTL & AUX RM PNL (MR ONLY) SRM INST RACK [Equip Classification = 18 – Instrument Racks]	H11P606 anchors are covered with black mastic fire seal material which prevents visual inspection.	R3200S061A DC RR 130V DIST CABINET 2PA2-5 [Equip Classification = 14 – Distribution Panels and Automatic Transfer Switches]	Anchors for R3200S061A are viewable. Wall mounted panel supported by wall anchors.
H11P609 CRTL & AUX RM PNL (MR ONLY) RPS TRIP CAB DIV1 INST RACK [Equip Classification = 20- Instrumentation and Control Panels]	H11P609 anchors are covered with black mastic fire seal material which prevents visual inspection.	R3200S061B DC RR 130V DIST CABINET 2PA2-6 [Equip Classification = 14 – Distribution Panels and Automatic Transfer Switches]	Anchors for R3200S061B are viewable. Wall mounted panel supported by wall anchors.
H11P820 CRTL & AUX RM PNL (MR ONLY) TERM CAB DIV2 INST RACK [Equip Classification = 20 - Instrumentation and Control Panels]	H11P820 anchors are covered with black mastic fire seal material which prevents visual inspection.	H21P624 LOC PNL/RACK (MR ONLY) DSD 4160V BUS 64C LOCAL CTRL PANEL LOCAL PNL & RACKS [Equip Classification = 18 - Instrument Racks]	Anchors for H21P624 are viewable. Column mounted box on unistrut.
H11P821 CRTL & AUX RM PNL (MR ONLY) TERM CAB DIV2 INST RACK [Equip Classification = 20 Instrumentation and Control Panels]	H11P821 anchors are covered with black mastic fire seal material which prevents visual inspection.	H21P614B LOC PNL/RACK (MR ONLY) TORUS MON SYS [Equipment Classification = 18	NOTE: H21P531 was considered as a replacement asset for H11P821, however it was not used. Preliminary walkdowns found this asset to be inaccessible.

Table B-5: SWEL List Revision Justification

Original SWEL Asset not fully accessible	Explanation why asset is replaced.	Replacement Asset	Justification for revised asset
H11P856 RTL & AUX RM PNL (MR ONLY) TERM VACUUM PUMPS, CIRC PUMPS & SPR CAB INST RACK [Equip Classification = 20 Instrumentation and Control Panels]	H11P856 anchors are covered with black mastic fire seal material which prevents visual inspection.	R1400S050 SWGR AE DIV1 480V MCC 72C-F ISOLATING CONTACTOR [Equip Classification = 1 – Motor Control Centers and Wall Mounted Contactors]	R1400S050. Rack mounted panel. Rack is mounted to floor.
R1400S038A SWGR 480V UNIT SUBSTATION XFMR NO 72EC DIV 2 (DG 13) [Equip Classification = 4 - Transformers]	R1400S038A anchors are inaccessible and/or are not visible.	H11P923 CRTL & AUX RM PNL (MR ONLY) RCIC TURB CTRL PANEL INST RACK [Equip Classification = 18 - Instrument Racks]	H11P923 All anchors are visible and available for inspection. Wall mounted box on unistrut.
R1400S039 SWGR 480V INDOOR UNIT SUBSTATIONS BUS NO 72ED [Equip Classification = 2 – Low Voltage Switchgear and Breaker Panels]	R1400S039 anchors are inaccessible and/or are not visible.	R1400S038 SWGR 480V INDOOR UNIT SUBSTATIONS BUS NO 72EC [Equip Classification = 2 – Low Voltage Switchgear and Breaker Panels]	R1400S038 anchors are visible and available for inspection. Cabinet is floor mounted. Classification is the same as R1400S039.
R3000S006 EDG 12 LOCAL CTRL PNL [Equip Classification = 20 Instrumentation and Control Panels]	R3000S006 anchors are inside the panel and inaccessible while the panel is energized.	H11P857 CRTL & AUX RM PNL (MR ONLY) MISC DC RELAY DIV1 INST RACK [Equip Classification = 20 Instrumentation and Control Panels]	H11P857 anchors are visible and available for inspection. Classification is the same as R3000S006.
T4100F031A RBHVAC RTRN AIR DIV1 DAMPER (A.O.) [Equip Classification = 7 – Pneumatic Operated Valves]	Only one side of the actuator for T4100F031A could be viewed without climbing or having scaffolding installed.	P44F402B EECW M/U TANK A002 DIV2 V8-2362 LVL CRTL AOV [Equip Classification = 7 Pneumatic Operated Valves]	P44F042B is viewable. Classification is the same as T4100F031A.

Table B-5: SWEL List Revision Justification

Original SWEL Asset not fully accessible	Explanation why asset is replaced.	Replacement Asset	Justification for revised asset
Added		H21P632 LOCAL PNL & RACKS DSD MCC 72F-4A LOCAL [Equip Classification = 20 Instrumentation and Control Panels]	
Added		H21P081 LOC PNL/RACK (MR ONLY) LOCAL PNL AND RACKS DIV2 ECCS TRIP UNIT INST RACK [Equipment Classification 18 – Instrument Racks]	NRC request to inspect as associated with asset H21P085. 4 panels are connected structurally and could impose loads on each other in an earthquake.
Added		H21P083 LOC PNL/RACK (MR ONLY) ECCS TRIP UNIT CAB DIV2 INST RACK [Equipment Classification 18 – Instrument Racks]	NRC request to inspect as associated with asset H21P085. 4 panels are connected structurally and could impose loads on each other in an earthquake.
Added		H21P087 LOCAL PNL AND RACKS RPS TRIP UNIT CAB B2 [Equipment Classification 18 – Instrument Racks]	NRC request to inspect as associated with asset H21P085. 4 panels are connected structurally and could impose loads on each other in an earthquake.
Anti Siphon Vent Lines	The assets are submerged in water with top of the vacuum breaker at the mean fuel pool water elevation of 683'6". At this location the assets are not in the area of vulnerability for fuel pool drain-down which is 10' above the top of fuel per Section 3-9 of EPRI Guidance 1025286.	None	

Appendix C
Seismic Walkdown Checklists (SWCs)

Table C-1 – Summary of Seismic Walkdown Checklists

Table C-1 – Summary of Seismic Walkdown Checklists

PIS #	Equip. Class	Component Description	Bldg.	Floor	AWC Reference	SWEL List (1,2)	50% Anchor Verif. (Y,N)	Status of SWC (Y,N,U)	CARDs Issued	Remarks
C1103D128	21	CRD NUMBER 34-27 HYD CTRL UNIT	RB	1	RB1-1	1	Y	Y	None	N/A
C11F160B	8	CRD DIV2 SOV	RB	1	RB1-2	1	Y	Y	None	N/A
C11F163A	8	CRD SOV	RB	1	RB1-3	1	Y	Y	None	N/A
C11F182A	8	CRD SCRAM DISCH VOL VENT & DRAIN VLV F180 & F181 PILOT AIR 'A' SOV	RB	1	RB1-3	1	Y	Y	None	N/A
C4103C001A	5	SLC NORTH REACTOR PUMP	RB	4	RB4-1	1	Y	N	12-26633	Loose Heat Trace Pull-Boxes on Pump C4103C001A.
C4104F004A	8	SLC EXPLOSIVE (SQUIB) VLV	RB	2	RB2-1	1	N	Y	None	N/A
E1150F004C	8	RHR DIV1 PUMP "C" SUPR POOL SUCT ISO MOV	RB	SB	RBSB-1	1	N	Y	None	N/A
E1150F016A	8	RHR DIV1 DRYWELL SPRAY OTBD ISO MOV	RB	1	RB1-4	1	N	Y	None	N/A
E1150F068A	8	RHR DIV1 HX "A" SERVICE WATER OUTLET ISO MOV	RB	2	RB2-2	1	N	Y	None	N/A
E1151C001C	6	RHRSW SOUTH PUMP ROOM SOUTH SERVICE WATER "C" PUMP	RHR	1	RHR1-1	1	Y	Y	None	N/A
E1156C001C	9	RHR SW MDCT FAN	RHR	2	RHR2-1	1	Y	Y	None	N/A
E2101C001C	5	CS DIV1 "C" PUMP	RB	SB	RBSB-2	1	N	Y	None	N/A
E2150F031A	8	CS DIV1 MIN FLOW/RECIRC ISO MOV	RB	B	RBB-1	1	N	Y	None	N/A
E4101C001C	5	HPCI TURB DRIVEN OIL PUMP	RB	SB	RBSB-3	1	N	Y	12-26642	Broken/Missing labels (Housekeeping Issue, Not Seismic Issue).
E4150F001	8	HPCI TURB STM SPLY ISO MOV	RB	SB	RBSB-3	1	N	Y	None	N/A
E4150F004	8	HPCI BOOSTER PUMP SUCT FROM CST ISO MOV	RB	SB	RBSB-3	1	N	Y	None	N/A

Table C-1 – Summary of Seismic Walkdown Checklists

PIS #	Equip. Class	Component Description	Bldg.	Floor	AWC Reference	SWEL List (1,2)	50% Anchor Verif. (Y,N)	Status of SWC (Y,N,U)	CARDs Issued	Remarks
E41K805	0	HPCI PUMP FLOW RATE MODULATOR/ISOLATOR FLOW SIG CND	AB	2	AB2-1	1	Y	Y	None	N/A
E5150F045	8	RCIC TURB STM INLET ISO MOV	RB	SB	RBSB-2	1	N	Y	None	N/A
G4100F016	0	FPCC SKIMMER SURGE TNK TO RESIDUAL HEAT REMOVAL ISO VLV	RB	1	RB1-6	2	N	Y	None	N/A
G4100F045A	0	FPCC FUEL STRG POOL DIFFUSER "A" ISO VLV	RB	5	RB5-1	2	N	Y	None	N/A
H11P612	20	CRTL & AUX RM PNL (MR ONLY) NSSS PROCESS INST CAB DIV2 INST RACK	AB	2	AB2-1	1	Y	Y	None	N/A
H11P613	20	CRTL & AUX RM PNL (MR ONLY) NSSS PROCESS INST CAB DIV1 INST RACK	AB	2	AB2-1	1	Y	Y	None	N/A
H11P628	20	CRTL & AUX RM PNL (MR ONLY) SRV DIV1 ADS RELAY CAB	AB	2	AB2-1	1	Y	Y	None	N/A
H11P857	20	CRTL & AUX RM PNL (MR ONLY) MISC DC RELAY DIV1 INST RACK	AB	2	AB2-1	1	Y	Y	None	N/A
H11P870	20	CRTL & AUX RM PNL (MR ONLY) MISC DC RELAY PANEL DIV2 INST RACK	AB	2	AB2-1	1	Y	Y	None	N/A
H11P898A	20	CRTL & AUX RM PNL (MR ONLY) AUTO DIGITAL LOAD SEQ CAB DIV1 INST RACK	AB	2	AB2-1	1	Y	Y	None	N/A
H11P898B	20	CRTL & AUX RM PNL (MR ONLY) AUTO DIGITAL LOAD SEQ CAB DIV2 INST RACK	AB	2	AB2-1	1	Y	Y	None	N/A
H11P903	14	CRTL & AUX RM PNL (MR ONLY) 120 VAC DIST PANEL - DIV2 INST RACK	AB	2	AB2-1	1	Y	N	12-27504	Undersized Anchors in Electrical Panel.
H11P915	20	CRTL & AUX RM PNL (MR ONLY) PC MON EQUIP & MISC RELAY DIV2 INST RACK	AB	2	AB2-1	1	Y	Y	None	N/A
H11P923	20	CRTL & AUX RM PNL (MR ONLY) RCIC TURB CTRL PANEL INST RACK	AB	2	AB2-1	1	Y	Y	None	N/A
H21P010	18	LOC PNL/RACK (MR ONLY) JET PUMP RACK B DIV2 INST RACK	RB	1	RB1-1	1	Y	Y	None	N/A
H21P080	20	LOC PNL/RACK (MR ONLY) ECCS TRIP UNIT CAB DIV1 INST RACK	AB	4	AB4-1	1	Y	Y	None	N/A

Table C-1 – Summary of Seismic Walkdown Checklists

PIS #	Equip. Class	Component Description	Bldg.	Floor	AWC Reference	SWEL List (1,2)	50% Anchor Verif. (Y,N)	Status of SWC (Y,N,U)	CARDs Issued	Remarks
H21P081	18	LOC PNL/RACK (MR ONLY) LOCAL PNL AND RACKS DIV2 ECCS TRIP UNIT INST RACK	AB	4	AB4-2	1	Y	N	12-27702	Inadequate Kwik Bolt Anchor Washers & Thread Engagement.
H21P083	18	LOC PNL/RACK (MR ONLY) ECCS TRIP UNIT CAB DIV2 INST RACK	AB	4	AB4-2	1	Y	N	12-27702	Inadequate Kwik Bolt Anchor Washers & Thread Engagement.
H21P085	18	LOC PNL/RACK (MR ONLY) RPS TRIP UNIT CAB A2 DIV2 INST RACK	AB	4	AB4-2	1	Y	N	12-27702	Inadequate Kwik Bolt Anchor Washers & Thread Engagement.
H21P087	18	LOCAL PNL AND RACKS RPS TRIP UNIT CAB B2 DIV2 INST RACK	AB	4	AB4-2	1	Y	N	12-27702	Inadequate Kwik Bolt Anchor Washers & Thread Engagement.
H21P100	18	LOC PNL/RACK (MR ONLY) REMOTE RX SHUTDOWN PANEL DIV1 INST RACK	AB	2	AB2-2	1	Y	Y	None	N/A
H21P296A	20	LOC PNL/RACK (MR ONLY) CCHVAC DIV1 INST RACK	AB	5	AB5-1	1	N	Y	12-26990	DCN not fully incorporated onto Panel Mounting Drawing.
H21P420	18	LOC PNL/RACK (MR ONLY) HPCI DIV2 TURB AND PILOT VLV INST RACK	RB	SB	RBSB-3	1	Y	Y	None	N/A
H21P448	18	LOC PNL/RACK (MR ONLY) EECW DIV2 INST RACK	RB	2	RB2-3	1	Y	N	12-26852	*Lighting Conduit not Correctly Supported per Drawing.*
H21P614B	18	LOC PNL/RACK (MR ONLY) TORUS MON SYS INST RACK	RB	SB	RBSB-4	1	Y	Y	None	N/A
H21P624	20	LOC PNL/RACK (MR ONLY) DSD 4160V BUS 64C LOCAL CTRL PANEL LOCAL PNL & RACKS	AB	2	AB2-2	1	Y	Y	None	**A supplemental SWC to document the internal inspection of the panel is added to address the NEI Focus Group response to FAQ dated 9/18/2012.**
H21P628	20	LOC PNL/RACK (MR ONLY) DSD MCC 72B-2A LOCAL CTRL PANEL LOCAL PNL & RACKS	AB	2	AB2-2	1	Y	N	12-26837	Drafting Error on Drawing E-2998-05. **A supplemental SWC to document the internal inspection of the panel is added to address the NEI Focus Group response to FAQ dated 9/18/2012.**
H21P632	20	LOCAL PNL & RACKS DSD MCC 72F-4A LOCAL CTRL	RB	2	RB2-1	1	Y	Y	None	**A supplemental SWC to document the internal inspection of the panel is added to address the NEI Focus Group response to FAQ dated 9/18/2012.**
P4400B001B	21	EECW DIV2 PLATE FRAME HX	RB	2	RB2-4	1	Y	N	12-26590	Error was identified on Drawing C-4889.
P4400B001C	21	EECW DIV1 PLATE FRAME BACKUP HX.	RB	2	RB2-5	1	Y	Y	None	N/A
P4400C001A	5	EMERGENCY EQUIPMENT COOLING WATER DIV1 PUMP	RB	2	RB2-6	1	Y	Y	None	N/A

Table C-1 – Summary of Seismic Walkdown Checklists

PIS #	Equip. Class	Component Description	Bldg.	Floor	AWC Reference	SWEL List (1,2)	50% Anchor Verif. (Y,N)	Status of SWC (Y,N,U)	CARDs Issued	Remarks
P4400F601B	8	RBCCW DIV2 RTRN ISO MOV	RB	1	RB1-5	1	N	Y	None	N/A
P4400F603B	8	RBCCW DIV2 SPLY ISO MOV	RB	1	RB1-5	1	N	Y	None	N/A
P44F400A	7	EECW DIV1 HX B001A/B001C SW OUTLET TEMP CTRL AOV TEMP CRTL VLV	RB	2	RB2-5	1	N	Y	None	N/A
P44F402A	7	EECW M/U TANK A001 DIV1 V8-2364 LVL CRTL AOV	RB	2	RB2-6	1	N	N	12-26921	Unistrut found to be in possible contact with EECW Valve.
P44F402B	7	EECW M/U TANK A002 DIV2 V8-2362 LVL CRTL AOV	RB	2	RB2-7	1	N	Y	None	N/A
P44K400B	0	EECW DIV2 ELECTRIC TO PNEUMATIC CONVERTER FOR TEMP CRTL VLV F400B	RB	2	RB2-3	1	N	N	12-26852	Lighting Conduit not Correctly Supported per Drawing.
P44N401A	19	EECW HX B001A / B001C RTRN T/C	RB	2	RB2-5	1	N	Y	None	N/A
P44P403A	0	EECW DIV1 N2 GAS SPLY TO M/U TANK STORAGE RACK	RB	2	RB2-6	1	Y	Y	None	N/A
P4500C002B	6	EMERGENCY EQUIPMENT SERVICE WATER NORTH PUMP	RHR	1	RHR1-2	1	Y	Y	None	N/A
P5002D001	12	CA NORTH COMPRESSOR	AB	B	ABB-1	1	Y	Y	None	N/A
P50P402B	18	CA DRYER RELAY PANEL INSTRUMENT RACK	RB	B	RBB-2	1	Y	Y	None	**A supplemental SWC to document the internal inspection of the panel is added to address the NEI Focus Group response to FAQ dated 9/18/2012.**
R1400S039B	4	SWGR DIV2 480V ESS BUS 72ED V REG	RHR	2	RHR2-2	1	Y	Y	None	N/A
R1400S050	1	SWGR AE DIV1 480V MCC 72C-F ISOLATING CONTACTOR	AB	2	AB2-2	1	Y	Y	None	**A supplemental SWC to document the internal inspection of the panel is added to address the NEI Focus Group response to FAQ dated 9/18/2012.**
R1600S019A	1	MCC/DIST CAB 480V MCC NO 72ED-2D (EDG 14)	RHR	2	RHR2-2	1	Y	N	12-27475	Missing Bolt on Panel R1600S019A.
R3000A011	21	EDG 11 W STARTING AIR RECEIVER	RHR	1	RHR1-3	1	Y	Y	None	N/A

Table C-1 – Summary of Seismic Walkdown Checklists

PIS #	Equip. Class	Component Description	Bldg.	Floor	AWC Reference	SWEL List (1,2)	50% Anchor Verif. (Y,N)	Status of SWC (Y,N,U)	CARDs Issued	Remarks
R3000D002	12	EDG 12 STARTING AIR COMPRESSOR	RHR	1	RHR1-4	1	Y	Y	None	N/A
R3000F023D	7	EDG 14 ACS 3-WAY TEMP CTRL VLV	RHR	1	RHR1-5	1	N	Y	None	N/A
R3001B004	21	EDG 14 LUBE OIL HX	RHR	1	RHR1-6	1	Y	Y	None	N/A
R3001C006	6	EDG 12 SERVICE WATER PUMP	RHR	1	RHR1-7	1	Y	N	12-26977	Braces on EDGSW Pump/Motor R3001C005 and C006 are not identified on vendor drawings.
R3001S001	17	EDG 11 4160V	RHR	1	RHR1-8	1	Y	Y	None	N/A
R30FA05B	8	EDG 13 THREE WAY AIR START CYL 1-6 SOLENOID VLV	RHR	1	RHR1-9	1	N	Y	None	N/A
R30NA17A	0	EDG 11 MAGNETIC PICKUP SPEED XMTR	RHR	1	RHR1-10	1	Y	Y	None	N/A
R30P320	20	EDG ENGINE GAUGE PNL	RHR	1	RHR1-11	1	Y	Y	None	**A supplemental SWC to document the internal inspection of the panel is added to address the NEI Focus Group response to FAQ dated 9/18/2012.**
R30P343D	20	EDG 14 DIV2 SERIES BOOST EXCITER/V REG PNL	RHR	1	RHR1-12	1	N	Y	12-27360	Missing hardware for panel R30P343D.
R31K005	16	VITAL PWR DIST 120 VAC DIV2 2KVA INVERTER	AB	2	AB2-1	1	Y	Y	None	N/A
R3200S004	15	DC 260/130V DUAL BATT (2PB)	AB	3	AB3-1	1	Y	Y	None	N/A
R3200S016	1	DC 260V DC MCC (2PB-1)	AB	3	AB3-2	1	Y	Y	None	N/A
R3200S020C	16	DC DIV1 2A 1-2 130V BATT CHGR	AB	3	AB3-3	1	Y	N	12-27131	NRC Identified Flex Conduit Appears to be too Rigid.
R3200S061A	14	DC RR 130V DIST CABINET 2PA2-5	AB	2	AB2-1	1	Y	Y	None	**A supplemental SWC to document the internal inspection of the panel is added to address the NEI Focus Group response to FAQ dated 9/18/2012.**

Table C-1 – Summary of Seismic Walkdown Checklists

PIS #	Equip. Class	Component Description	Bldg.	Floor	AWC Reference	SWEL List (1,2)	50% Anchor Verif. (Y,N)	Status of SWC (Y,N,U)	CARDs Issued	Remarks
R3200S061B	14	DC RR 130V DIST CABINET 2PA2-6	AB	2	AB2-1	1	Y	N	12-26630	GAI-Tronic above Panel H11P901 does not appear to be seismically supported. **A supplemental SWC to document the internal inspection of the panel is added to address the NEI Focus Group response to FAQ dated 9/18/2012.**
R3200S062	14	DC SWGR ROOM 130V DIST CABINET 2PA2-14	AB	2	AB2-2	1	Y	Y	None	**A supplemental SWC to document the internal inspection of the panel is added to address the NEI Focus Group response to FAQ dated 9/18/2012.**
T4100B009	11	CCHVAC NORTH DIV1 AIR CONDITIONER CH	AB	5	AB5-1	1	Y	N	12-28245 12-28246 12-28393	Missing bolt on Spring Isolator plate. Rust found on Chiller Isolator. Minimum clearances not specified for Chiller Isolators.
T4100B035	10	RBHVAC EECW PUMP RM COOL UNIT	RB	2	RB2-7	1	Y	Y	None	N/A
T4100B044	10	RBHVAC DIV2 BATT CHARGER RM FAN COIL UNITS	AB	3	AB3-4	1	Y	Y	None	N/A
T4100C009	9	RBHVAC WEST BATT RM EAST ESSENTIAL EXH FAN	AB	3	AB3-4	1	Y	Y	None	N/A
T4100F041	7	CCHVAC NORMAL INTAKE AIR DIV1 ISO DAMPER (A.O.)	AB	4	AB4-3	1	Y	Y	None	N/A
T41F101A	8	CCHVAC OUTSIDE AIR DAMPER F033A CTRL DIV1 SOV	AB	5	AB5-1	1	Y	Y	None	N/A
T4600F407	7	SGTS FROM RB EXH SYS ISO AOV	RB	3	RB3-1	1	N	Y	None	N/A
T49P400A	18	PC PNEU DIV1 SPLY INST RACK	RB	1	RB1-4	1	Y	Y	None	N/A
T50F450	8	PCAM PC RAD MON SYS INLET ISO VLV V5-3083 SOV	RB	2	RB2-8	1	N	Y	None	N/A
X4103C001	9	RHRHVAC EDG 11 RM E VENT FAN	RHR	2	RHR2-3	1	Y	Y	None	N/A
X4103C007	9	RHRHVAC EDG 14 RM E VENT FAN	RHR	2	RHR2-4	1	Y	Y	None	N/A
X41N056D	19	HVAC RHR EDG SWGR RM RTRN AIR DMPRS X4103C015 & C016 DIV2 RTD	RHR	2	RHR2-2	1	Y	N	12-27469	Missing/Damaged Screws in Temperature Sensors.

Total SWC checklists: 99 (Includes 9 Supplemental SWCs to Open Panels/Cabinet)

Seismic Walkdown Checklist (SWC)

Equipment ID No. C1103D128 Equip. Class[1] 21, Tanks and Heat Exchange

Equipment Description *Hydraulic Control Unit, Tank*

Location: Bldg. *RB* Floor El. *583'-6"* Room, Area *A-12, Col. D-10*

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

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Anchorage is in very good condition.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Anchorage is free of corrosion. See attached photo DSC 00171.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   No cracks are visible. See attached photo DSC 00171.

5. Is the anchorage configuration consistent 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 size, type and location are consistent with Dwg. I-6025-03, Rev A. (NO POSTINGS) DJK 10/12/12

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

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

Seismic Walkdown Checklist (SWC)

Equipment ID No. C1103D128 Equip. Class[1] 21, Tanks and Heat Exchange

Equipment Description *Hydraulic Control Unit, Tank*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   No 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☐
   No nearby block walls or ceiling tiles. Lighting is well-secured. See attached photo DSC 00175.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Lines have adequate flexibility. See attached photo DSC 00176.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    No concerns identified.

Other Adverse Conditions

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

Seismic Walkdown Checklist (SWC)

Equipment ID No. C1103D128 Equip. Class[1] 21, Tanks and Heat Exchange

Equipment Description *Hydraulic Control Unit, Tank*

Comments (Additional pages may be added as necessary)

See attached photos DSC 00171, 175 & 176.

☒ *Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #1 : _____ Date: 08/06/12

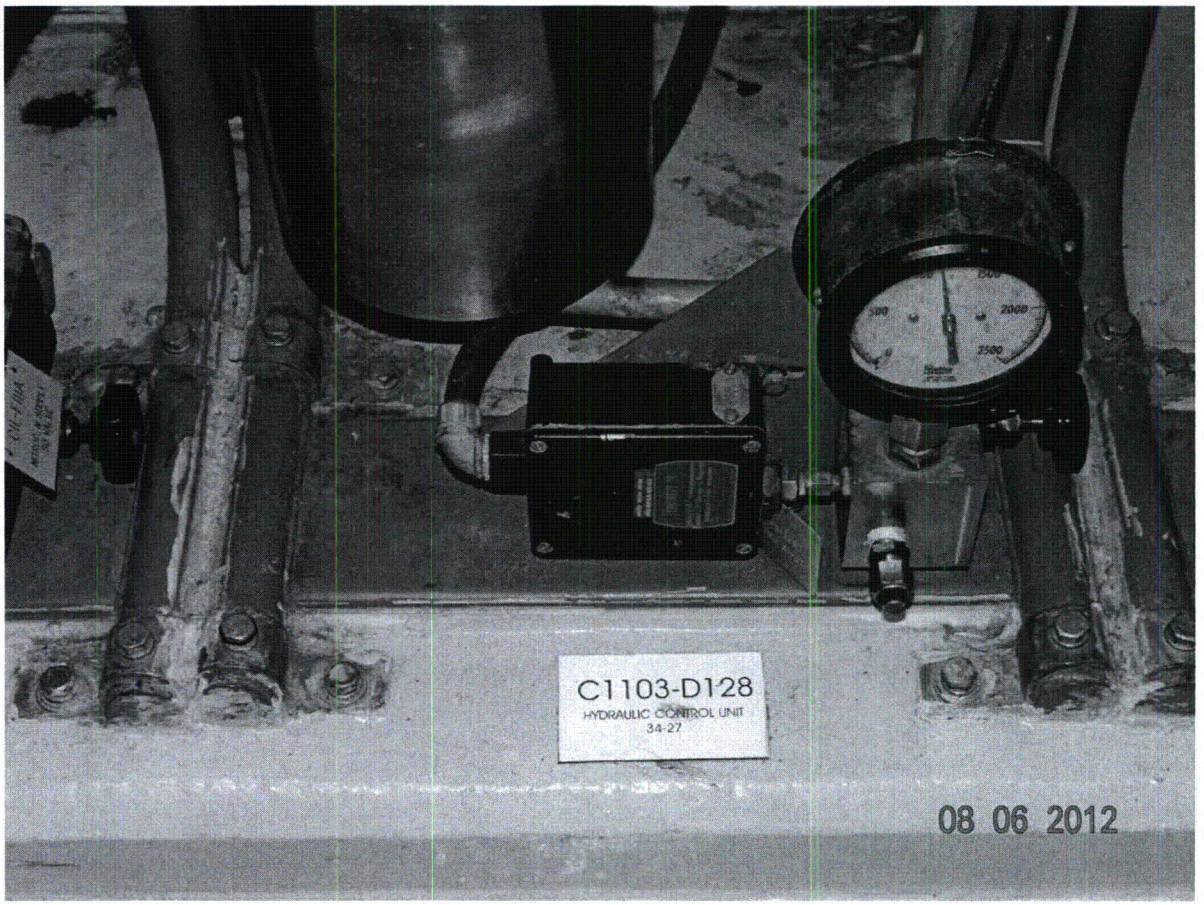
☒ *Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #2 : _____ Date: 8/6/12

Seismic Walkdown Pictures

Equipment ID No. *C1103D128* Equipment Class: *21, Tanks and Heat Exchangers*

Equipment Description *Hydraulic Control Unit, Tank*

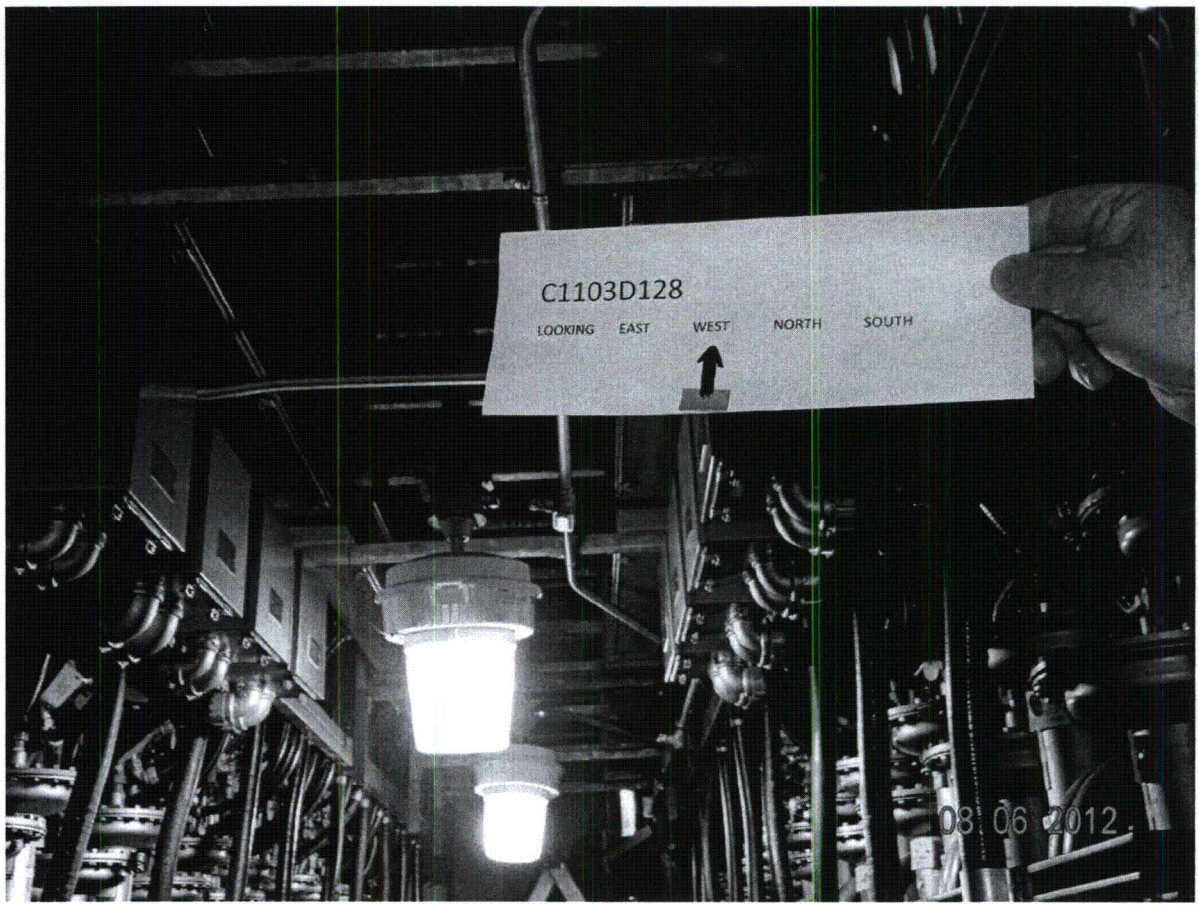


(DSC00171)

Seismic Walkdown Pictures

Equipment ID No. *C1103D128* Equipment Class: *21, Tanks and Heat Exchangers*

Equipment Description *Hydraulic Control Unit, Tank*

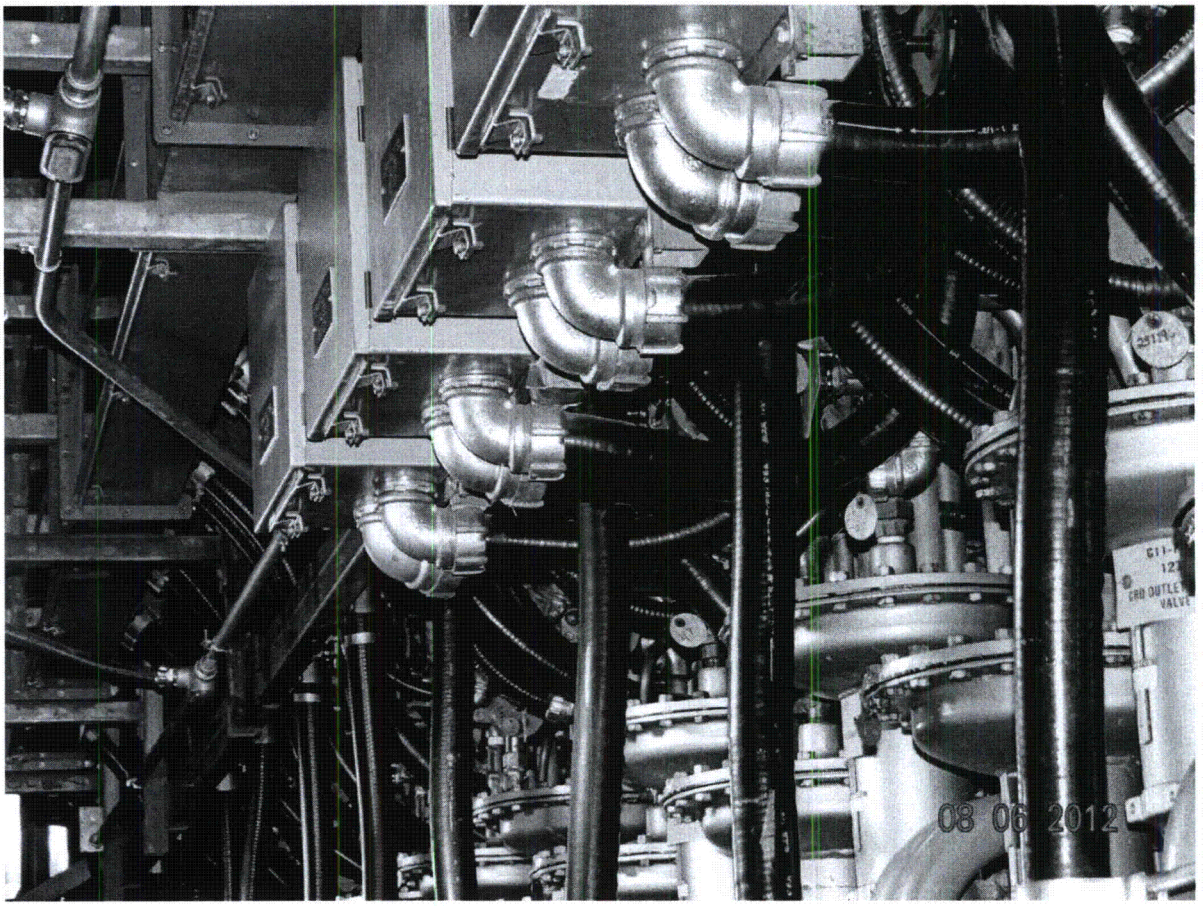


(DSC00175)

Seismic Walkdown Pictures

Equipment ID No. *C1103D128* Equipment Class: *21, Tanks and Heat Exchangers*

Equipment Description *Hydraulic Control Unit, Tank*



"Looking Up"

(DSC00176)

Seismic Walkdown Checklist (SWC)

Equipment ID No. C11F160B Equip. Class[1] 8, Motor/Solenoid-Operated Valves

Equipment Description *CRD DIV 2, Solenoid Valve (wall mounted)*

Location: Bldg. *RB* Floor El. *583'-6"* Room, Area *A-12/Col. G-11*

Manufacturer, Model, Etc. (optional but recommended) *VALE-VALCOR ENG'G Corp, V7090043*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   Anchorage is in good condition and is not bent, broken or missing hardware.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   No visible corrosion, see photo DSC 00191 & DSC 00192.

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   No nearby cracks in wall, see photo DSC 00191.

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Anchorage configuration consistent with plant documentation.
   Ref. Dwg. I-2116-02, Rev B (No Postings).

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

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

Seismic Walkdown Checklist (SWC)

Equipment ID No. C11F160B Equip. Class[1] 8, Motor/Solenoid-Operated Valves

Equipment Description *CRD DIV 2, Solenoid Valve (wall mounted)*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   No nearby equipment could impact valve.
   (SEE PICTURE DSC00193) ~ DJK 10/11/12

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   No overhead ceiling tiles, lighting and no block walls nearby.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Piping rigidly mounted. Cable/conduit has adequate flexibility to SOV operator. See photo DSC 00191.

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    No adverse conditions were identified.

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐
    Other adverse conditions were not identified.

Seismic Walkdown Checklist (SWC)

Equipment ID No. C11F160B Equip. Class[1] 8, Motor/Solenoid-Operated Valves

Equipment Description *CRD DIV 2, Solenoid Valve (wall mounted)*

Comments (Additional pages may be added as necessary)

☒ *Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #1 : _____ Date: 08/06/12

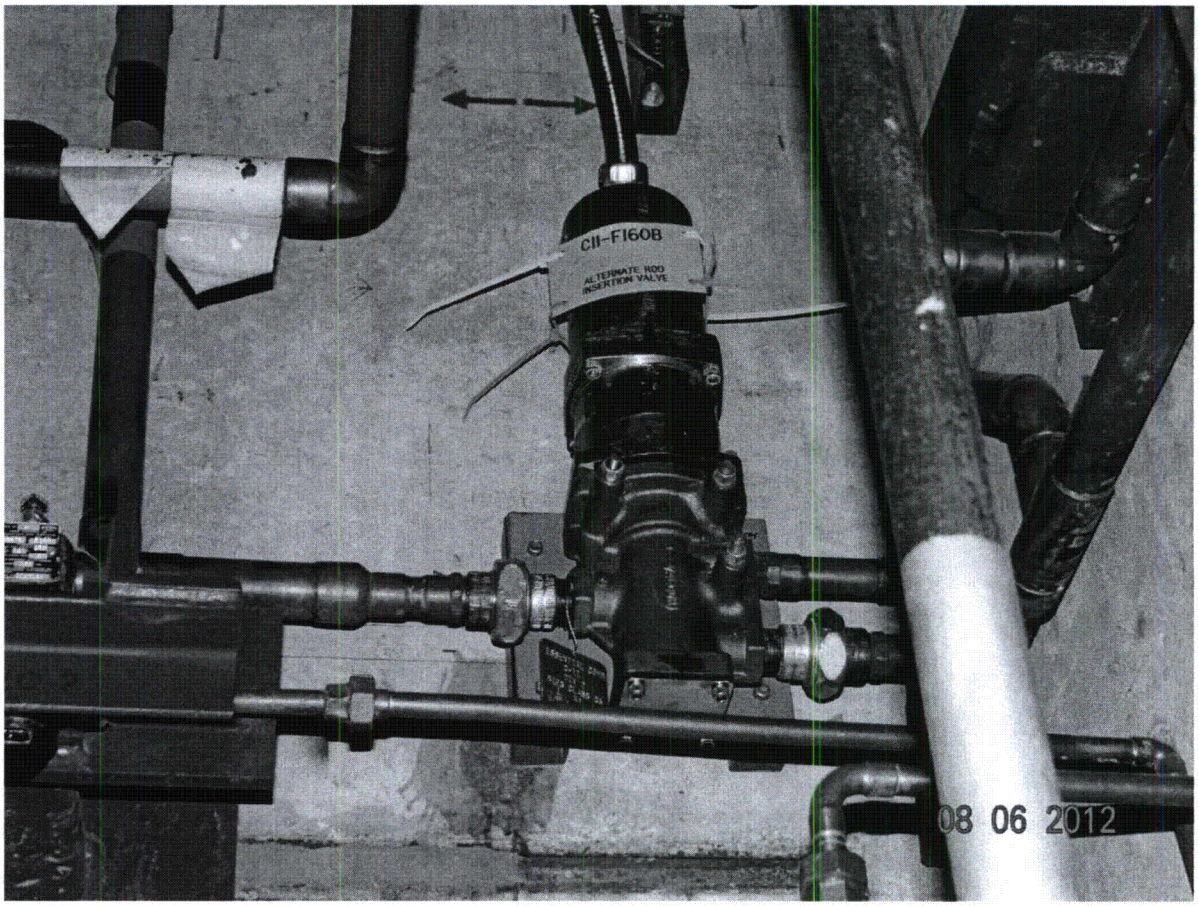
☒ *Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #2 : _____ Date: 8/6/12

Seismic Walkdown Pictures

Equipment ID No. *C11F160B* Equipment Class: *8, Motor/Solenoid-Operated Valves*

Equipment Description *CRD DIV 2 Solenoid Valve (Wall Mounted)*

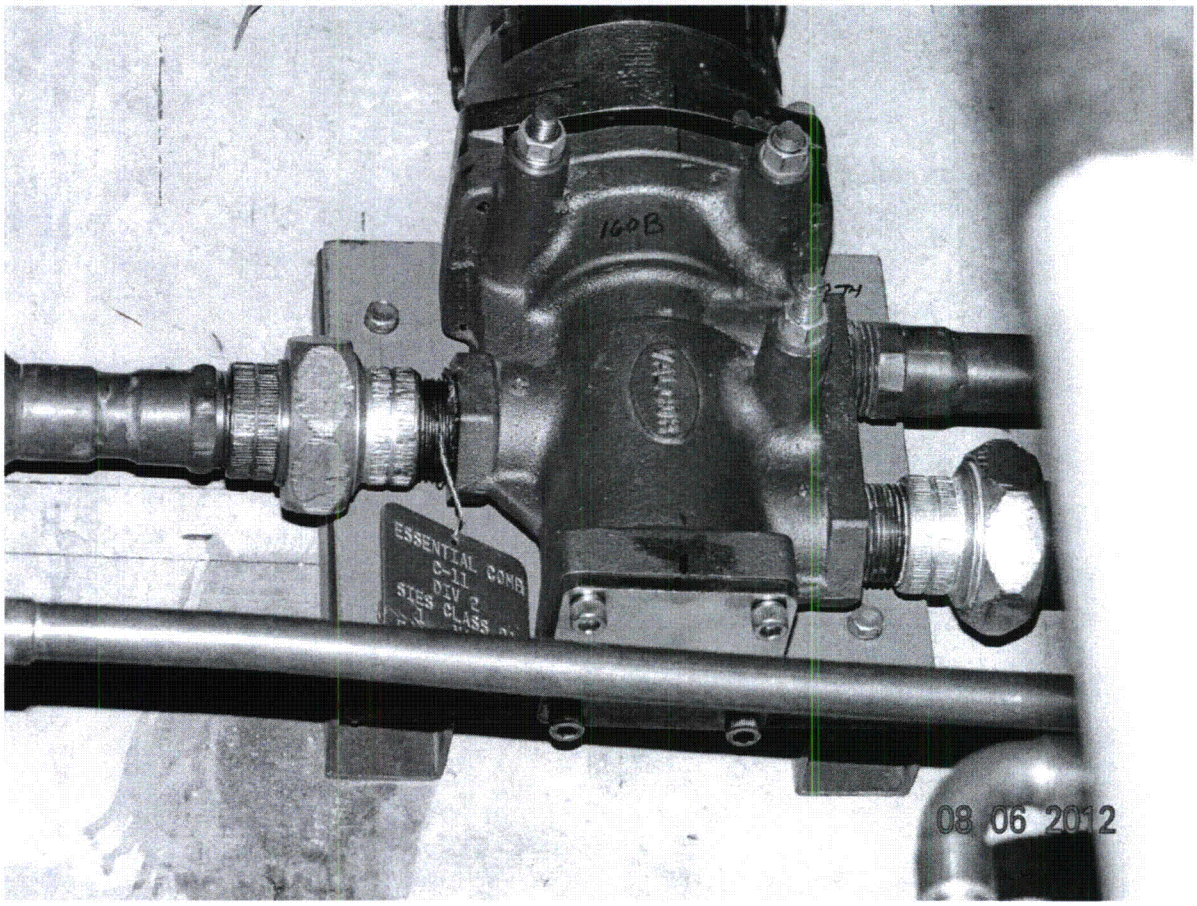


(DSC00191)

Seismic Walkdown Pictures

Equipment ID No. *C11F160B* Equipment Class: *8, Motor/Solenoid-Operated Valves*

Equipment Description *CRD DIV 2 Solenoid Valve (Wall Mounted)*

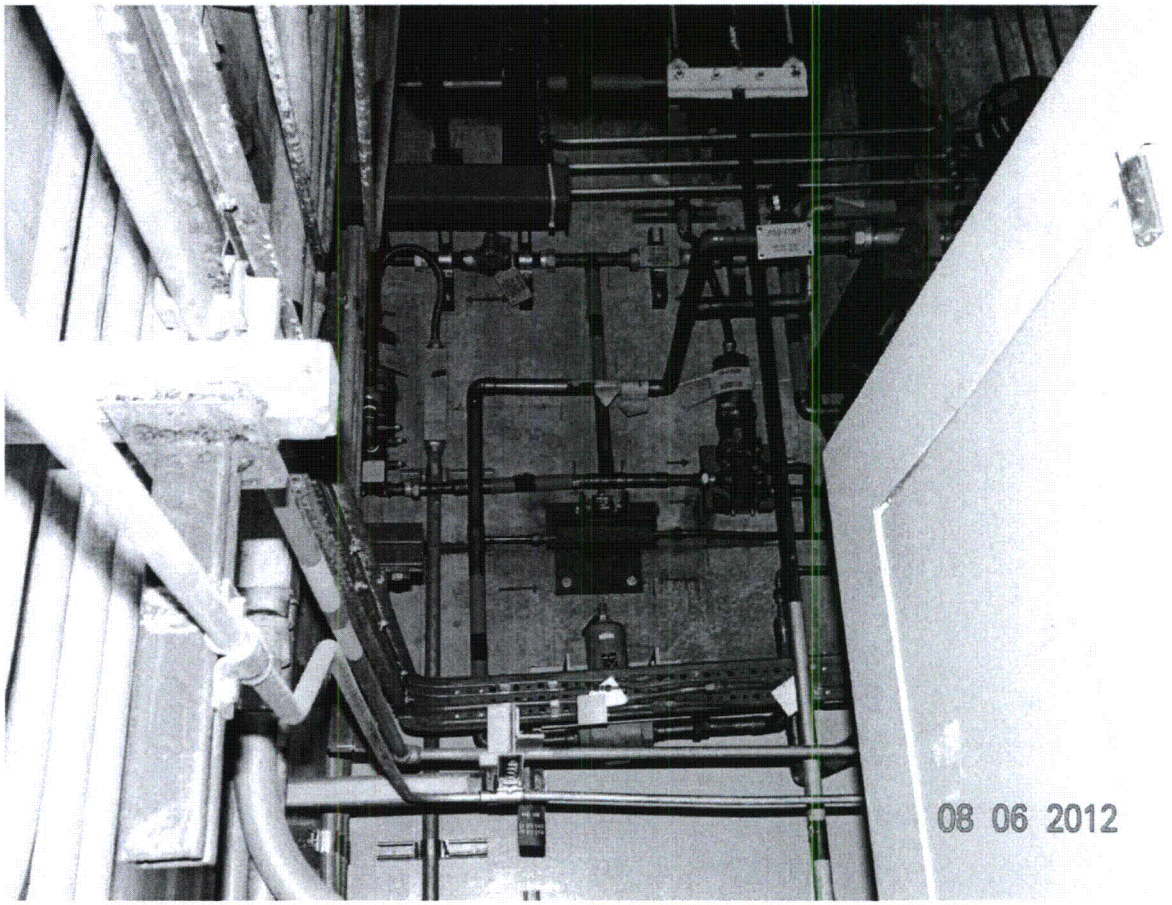


(DSC00192)

Seismic Walkdown Pictures

Equipment ID No. *C11F160B* Equipment Class: *8, Motor/Solenoid-Operated Valves*

Equipment Description *CRD DIV 2 Solenoid Valve (Wall Mounted)*



(DSC00193)

Seismic Walkdown Checklist (SWC)

Equipment ID No. *C11F163A* Equip. Class[1] *8, Motor/Solenoid-Operated Valves*

Equipment Description *Div.I Alt Rod Insertion Solenoid Valve*

Location: Bldg. *RB* Floor El. *583'-6"* Room, Area *A-12, Col. C-13*

Manufacturer, Model, Etc. (optional but recommended) *Valcor Engineering Corp. V7090046*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   All anchorage is present and securely tightened.

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

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

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Drawing I-2116-2 (Section A-A and the mounting detail for C11F163A & B) was field verified, and therefore anchorage is consistent. See pictures 5 and 11. NO POSTINGS FOUND AGAINST DWG. I-2116-02 DJK 10/12/12

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

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

MPS 10/3/12

Seismic Walkdown Checklist (SWC)

Equipment ID No. *C11F163A* Equip. Class[1] 8, Motor/Solenoid-Operated Valves

Equipment Description *Div.I Alt Rod Insertion Solenoid Valve*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   There is no observed seismic proximity interaction or danger of falling overhead hazards. (SEE PICTURE 1) ~ DJK 10/11/12

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   There are no observed overhead hazards.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   There are no observed lines with insufficient flexibility or straight line connections (see picture 6 and 11).

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

Other Adverse Conditions

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

MPS 10/3/12

Seismic Walkdown Checklist (SWC)

Equipment ID No. C11F163A Equip. Class[1] 2, Motor/Solenoid-Operated Valves

Equipment Description Div. 1 Alt Rod Insertion Solenoid Valve

Comments (Additional pages may be added as necessary)

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1 : Michael P. Sasso Date: 8/15/12

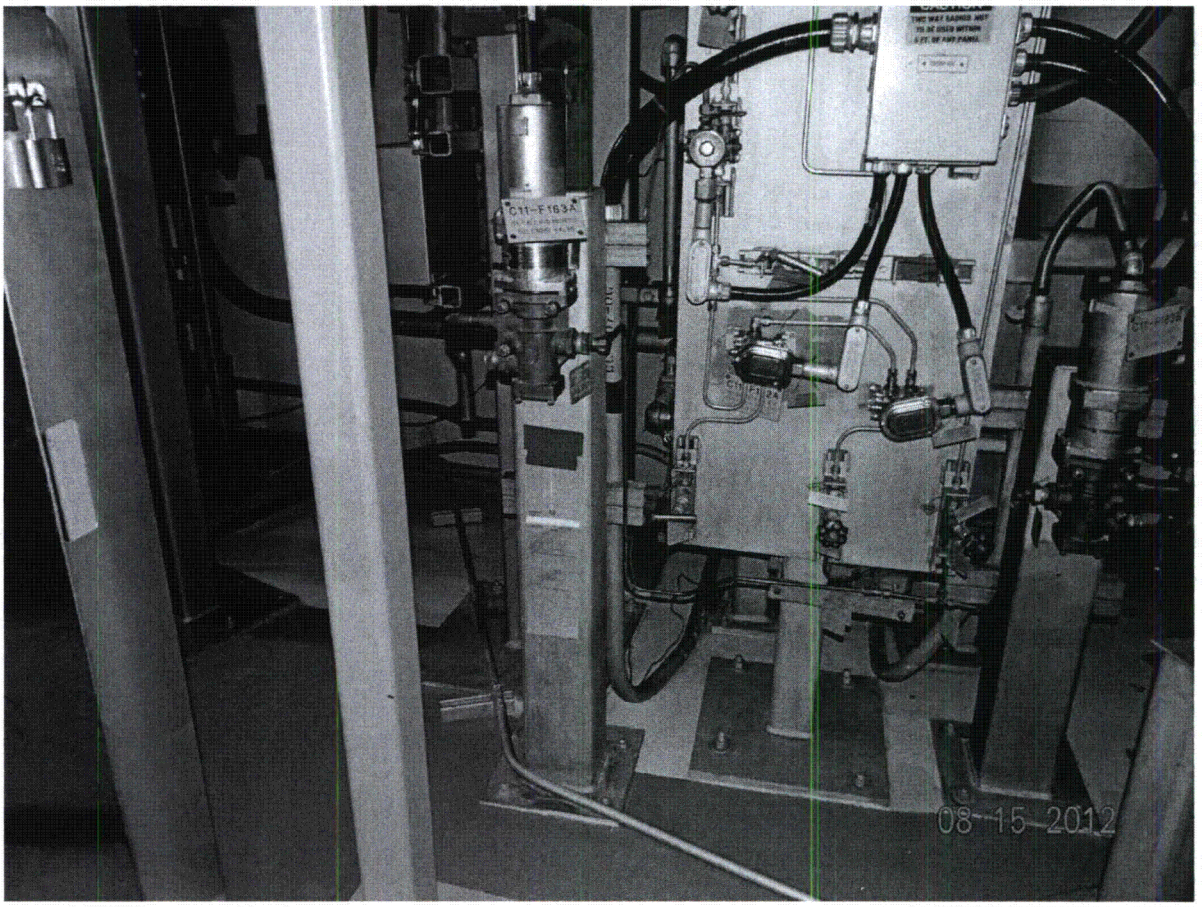
☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Scott Bauer Date: 8/15/12

Seismic Walkdown Pictures

Equipment ID No. *C11F163A* Equipment Class: *8, Motor/Solenoid-Operated Valves*

Equipment Description *DIV 1 Alt Rod Insertion Solenoid Valve*

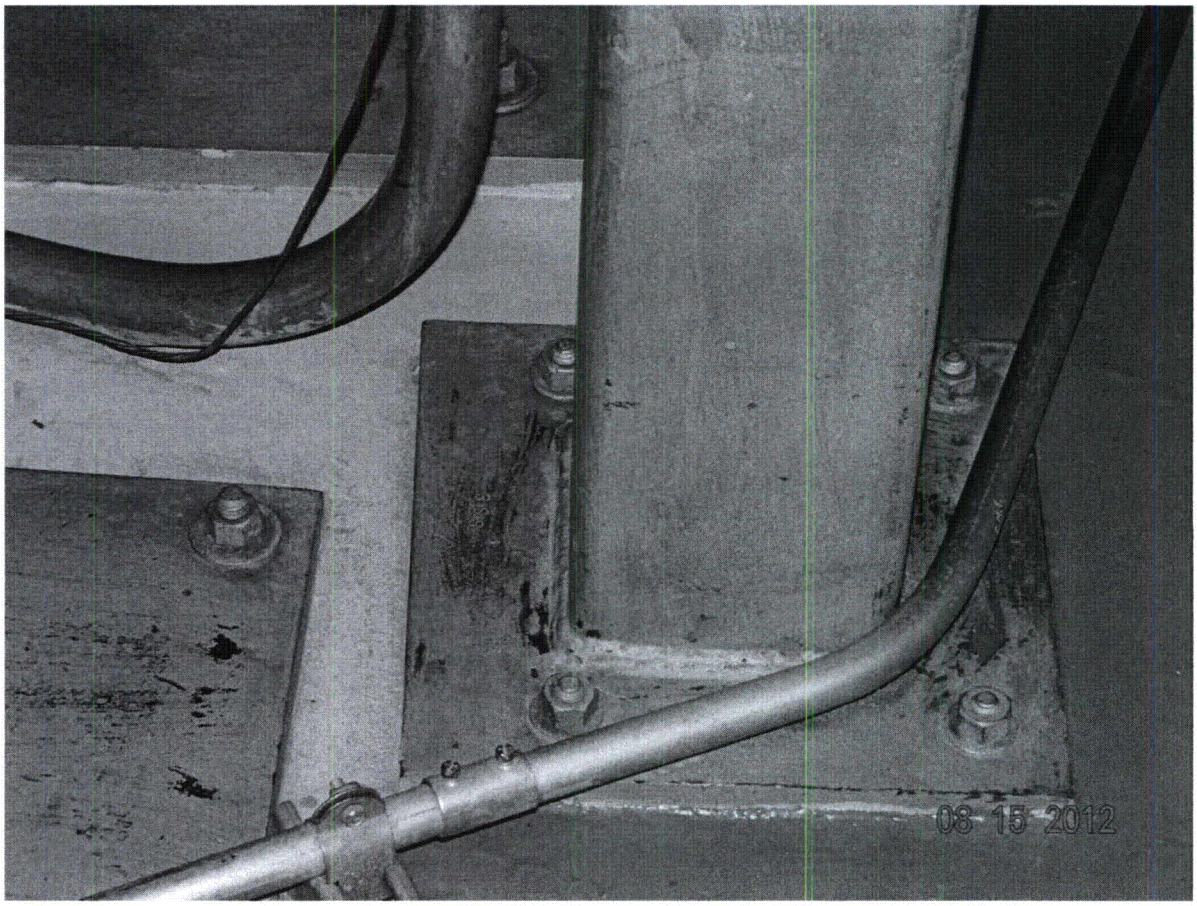


(Picture 1)

Seismic Walkdown Pictures

Equipment ID No. *C11F163A* Equipment Class: *8, Motor/Solenoid-Operated Valves*

Equipment Description *DIV 1 Alt Rod Insertion Solenoid Valve*

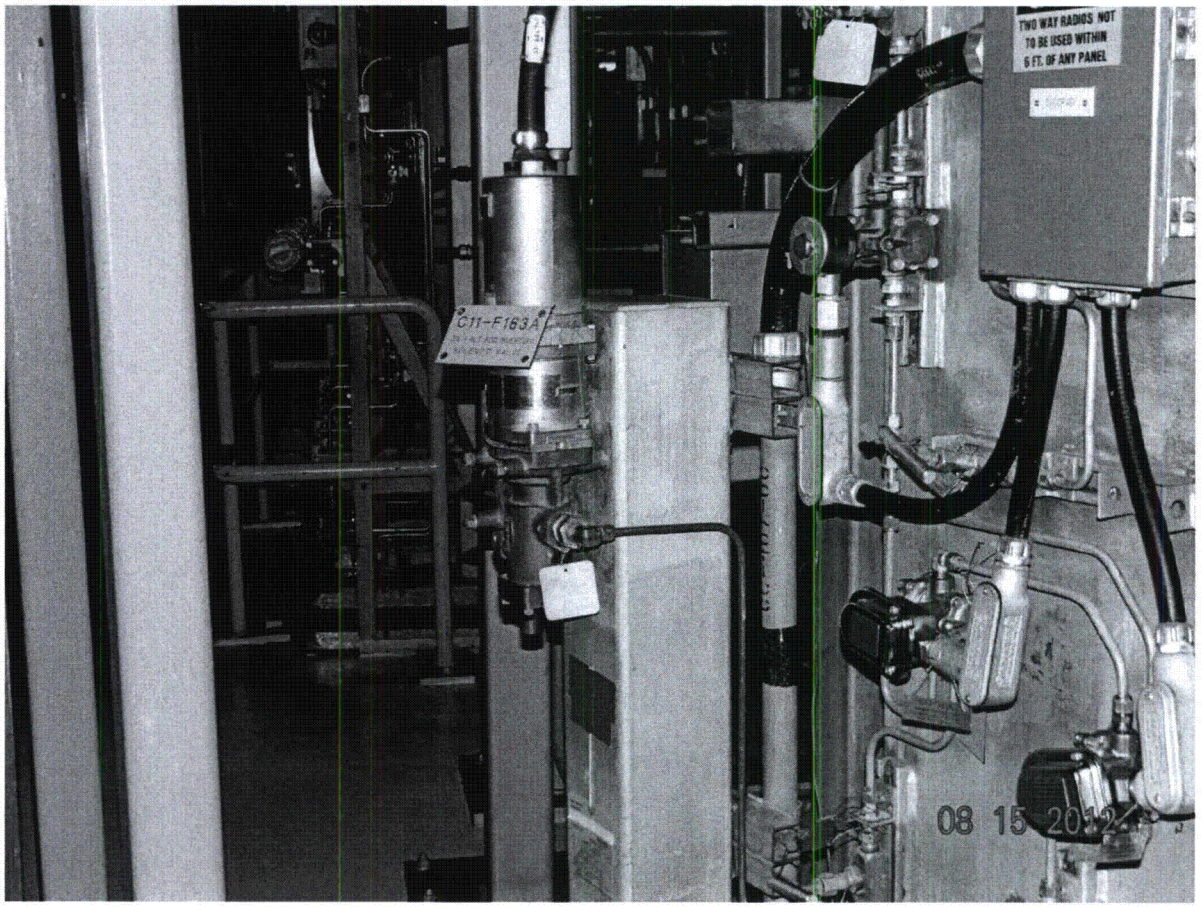


(Picture 5)

Seismic Walkdown Pictures

Equipment ID No. *C11F163A* Equipment Class: *8, Motor/Solenoid-Operated Valves*

Equipment Description *DIV 1 Alt Rod Insertion Solenoid Valve*

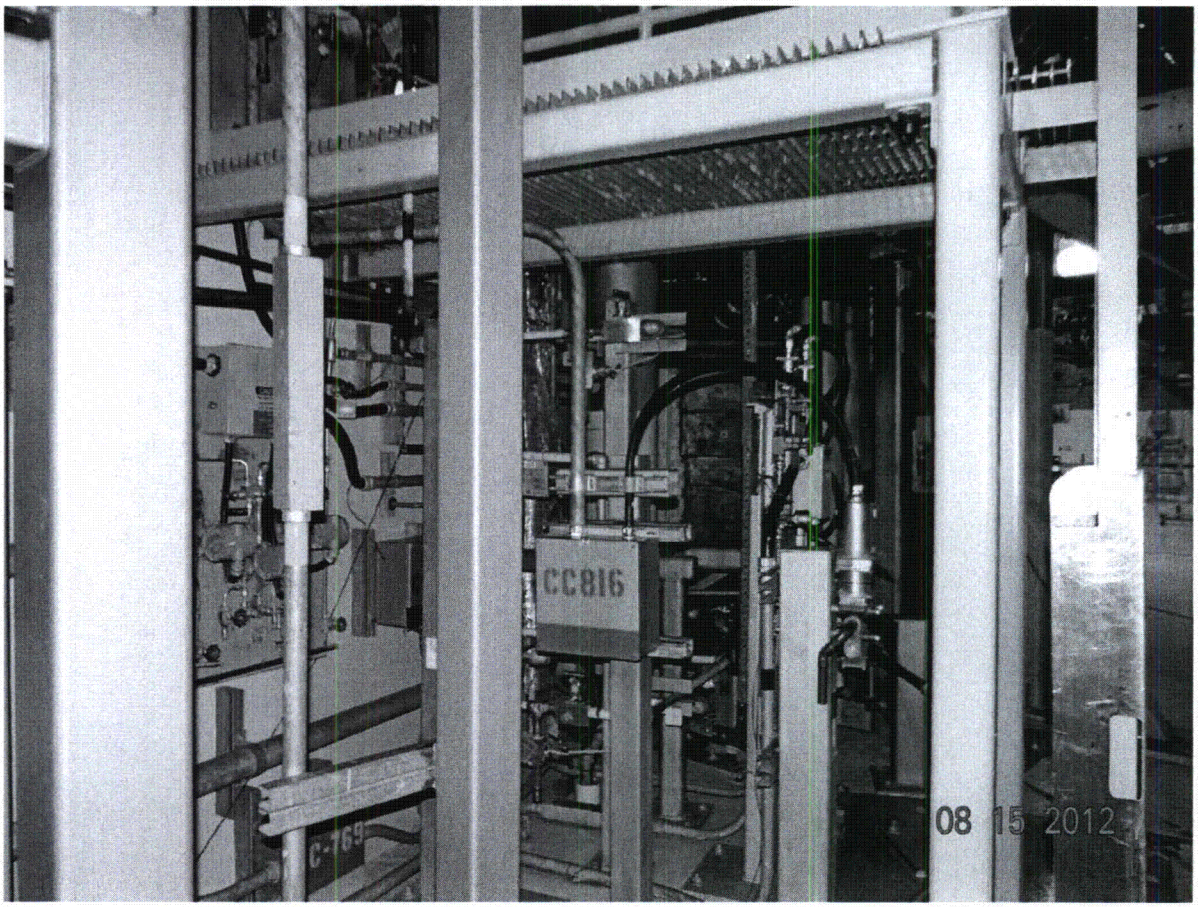


(Picture 6)

Seismic Walkdown Pictures

Equipment ID No. *C11F163A* Equipment Class: *8, Motor/Solenoid-Operated Valves*

Equipment Description *DIV 1 Alt Rod Insertion Solenoid Valve*



(Picture 11)

Seismic Walkdown Checklist (SWC)

Equipment ID No. *C11F182A* Equip. Class[1] 8-Motor Operated and Solenoid Operated Valves

Equipment Description *F180 & F181 Pilot Air A SOV*

Location: Bldg. *RB* Floor El. *583'-6"* Room, Area *A-12, Col. C-13*

Manufacturer, Model, Etc. (optional but recommended) *Automatic Switch Co NPK8316A54V*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   All anchorage is present and securely tightened.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   Anchorage is not corroded.

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

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   Drawing I-2112-5 including Detail 4, elevation C11P401 and Section 2 was field verified, and therefore anchorage is consistent. (See pictures 2 and 3.) NO POSTINGS AGAINST I-2112-05, REV. F DJK 10/12/12

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

MPS 10/3/12

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

Seismic Walkdown Checklist (SWC)

Equipment ID No. *C11F182A* Equip. Class[1] 8-Motor Operated and Solenoid Operated Valves

Equipment Description *F180 & F181 Pilot Air A SOV*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   There are no observed seismic proximity interaction or danger of falling overhead hazards.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   There are no observed overhead hazards. (See pictures 7 & 10.)

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   There are no observed lines with insufficient flexibility or straight line connections. (See picture 1.)

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

Other Adverse Conditions

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

MPS 10/3/12

Seismic Walkdown Checklist (SWC)

Equipment ID No. C11F182A Equip. Class[1] 8-Motor Operated and Solenoid Operated Valves

Equipment Description F180 & F181 Pilot Air A SOV

Comments (Additional pages may be added as necessary)

☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #1 : Michael P. Sasser Date: 8/15/12

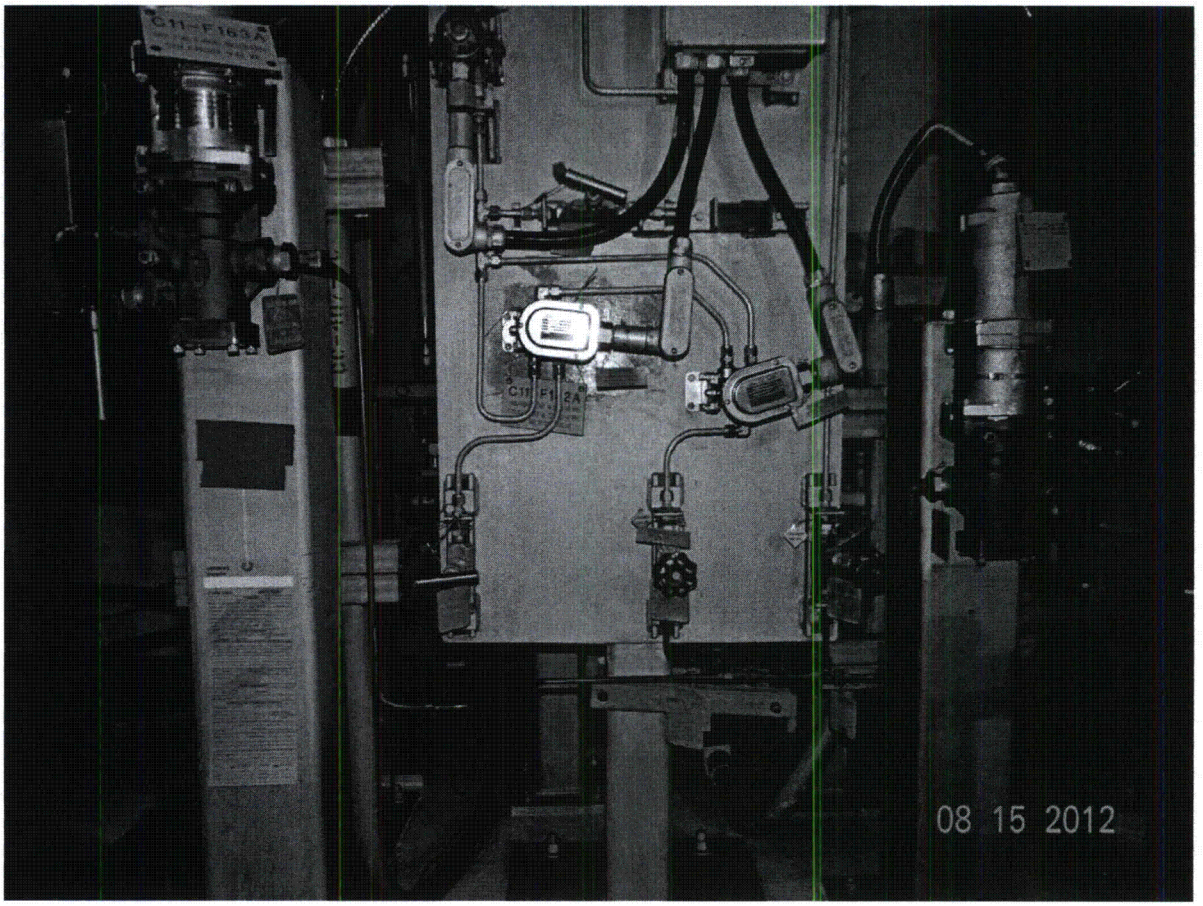
☒ *Seismic Engineer Walkdown PSE-53Qualified*

Evaluator #2 : Scott Bauer Date: 8/15/12

Seismic Walkdown Pictures

Equipment ID No. *C11F182A* Equipment Class: *8, Motor/Solenoid-Operated Valves*

Equipment Description *Vent and Drain F180 and F181 Pilot Air SOV*

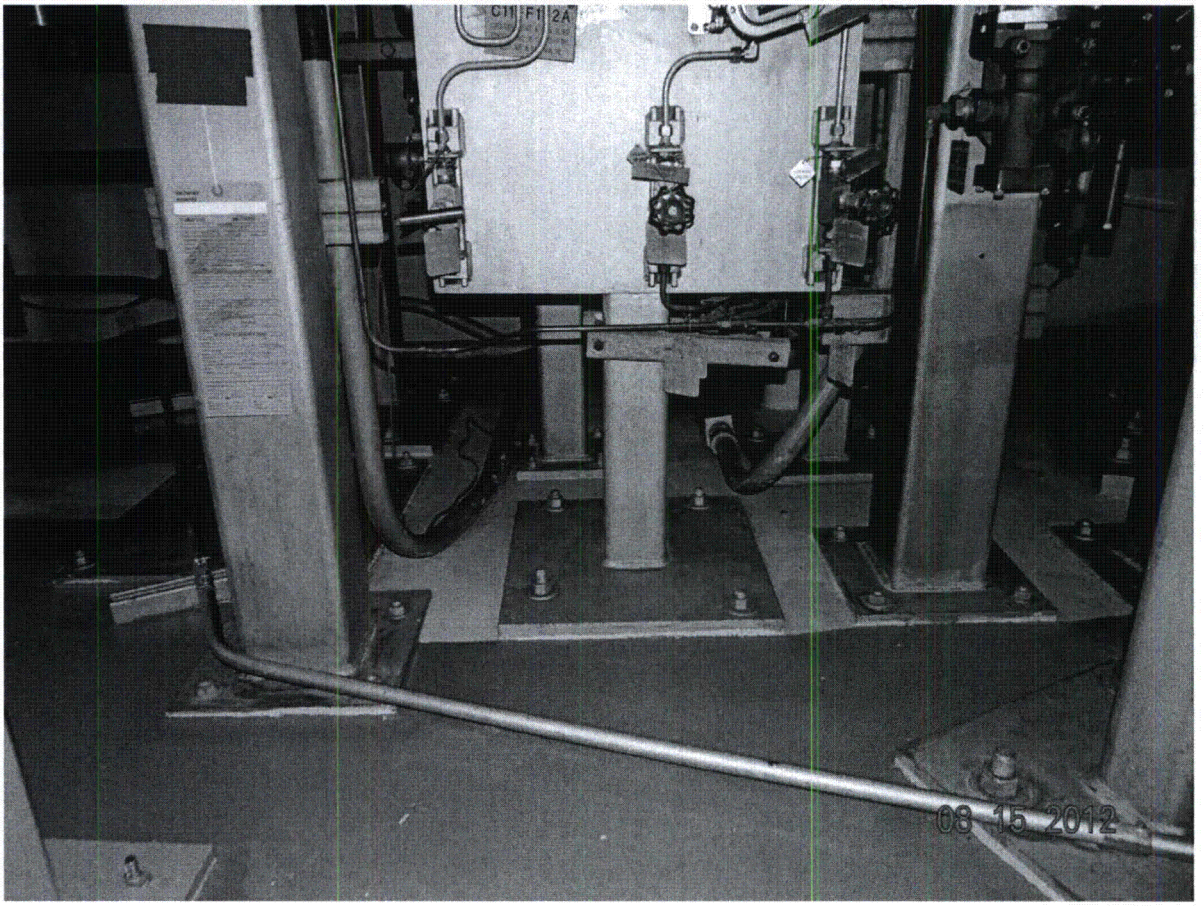


(Picture 1)

Seismic Walkdown Pictures

Equipment ID No. *C11F182A* Equipment Class: *8, Motor/Solenoid-Operated Valves*

Equipment Description *Vent and Drain F180 and F181 Pilot Air SOV*

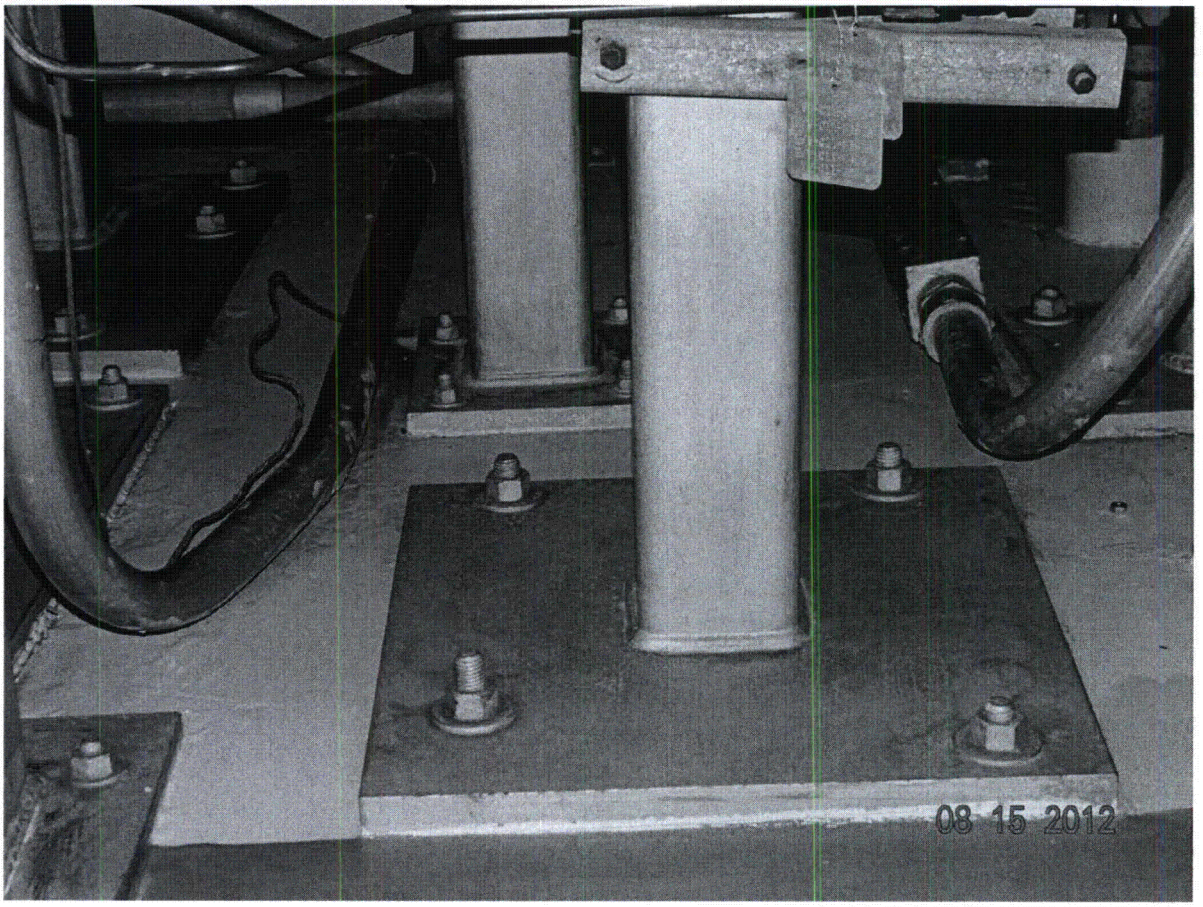


(Picture 2)

Seismic Walkdown Pictures

Equipment ID No. *C11F182A* Equipment Class: *8, Motor/Solenoid-Operated Valves*

Equipment Description *Vent and Drain F180 and F181 Pilot Air SOV*

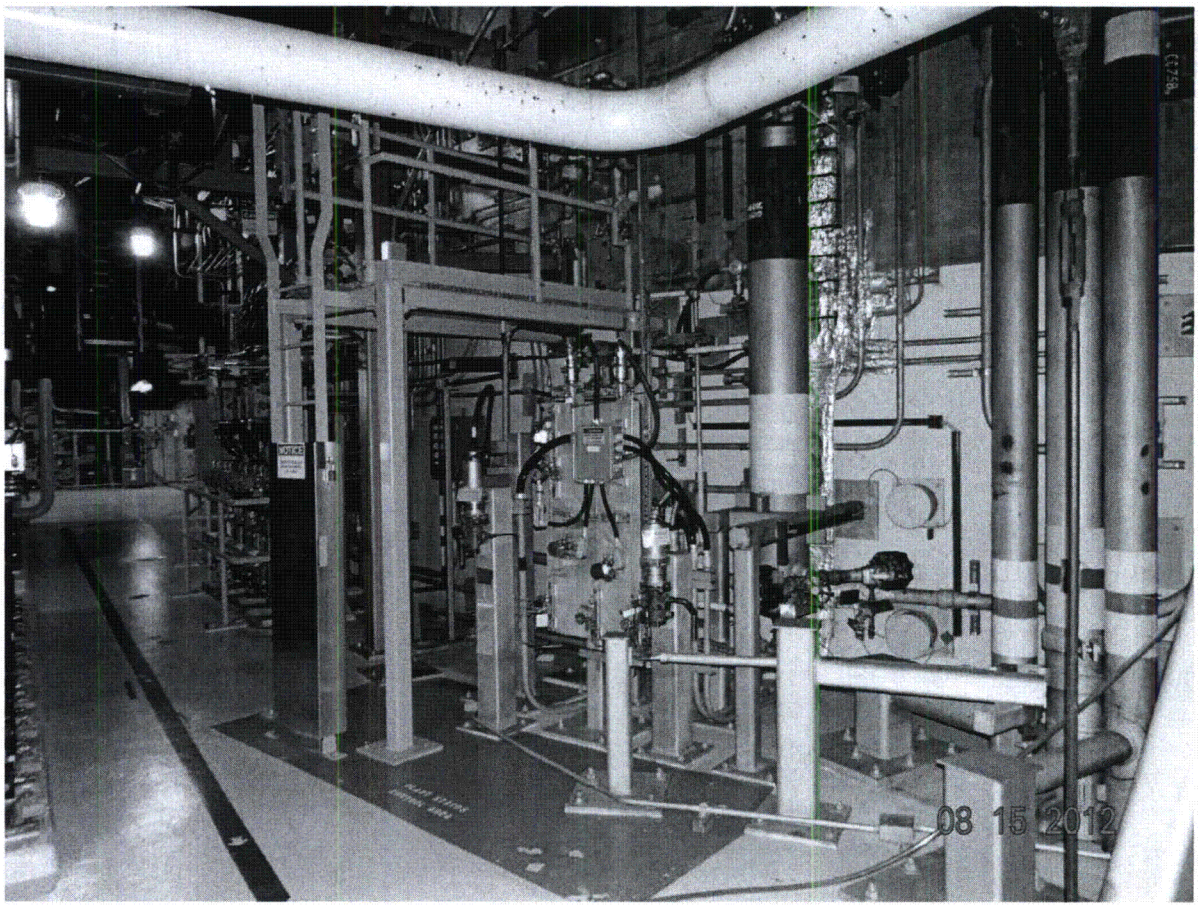


(Picture 3)

Seismic Walkdown Pictures

Equipment ID No. *C11F182A* Equipment Class: *8, Motor/Solenoid-Operated Valves*

Equipment Description *Vent and Drain F180 and F181 Pilot Air SOV*

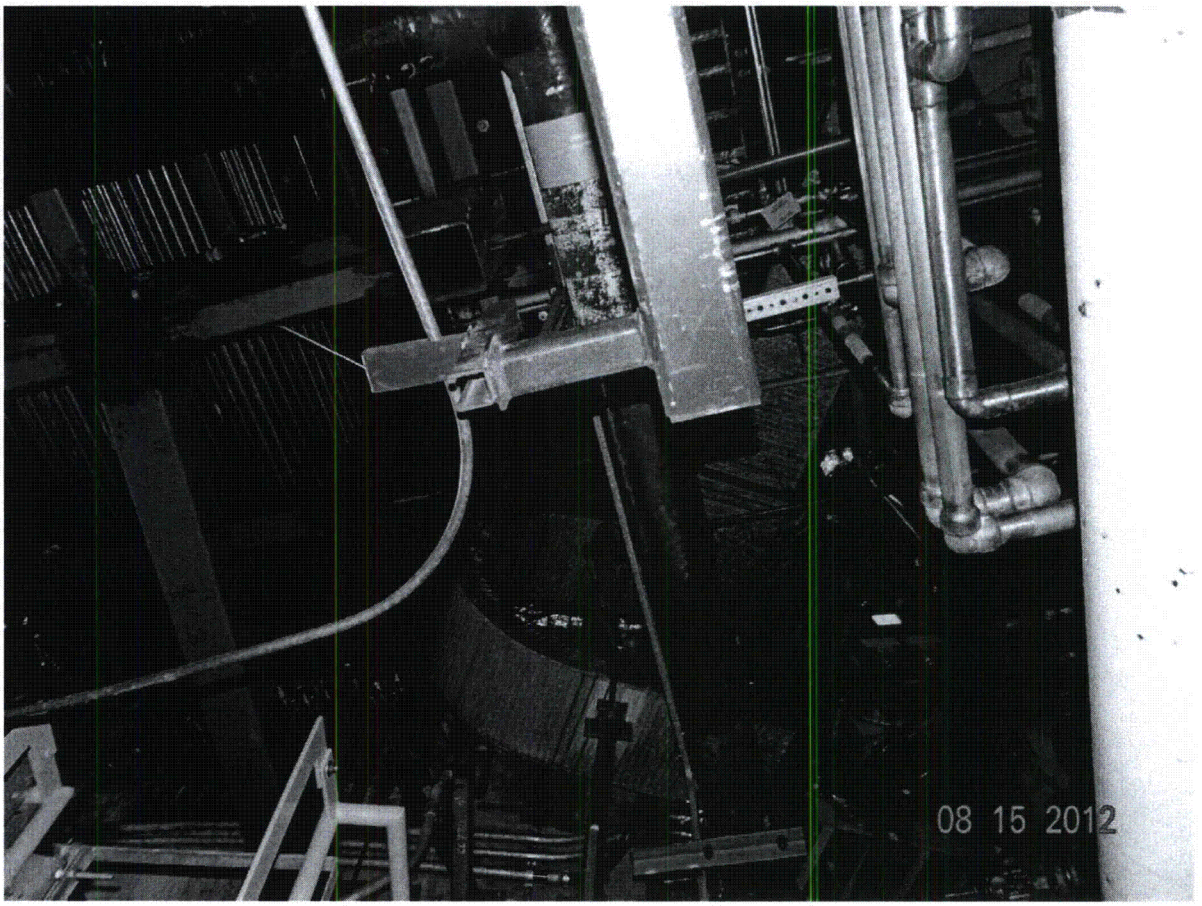


(Picture 7)

Seismic Walkdown Pictures

Equipment ID No. *C11F182A* Equipment Class: *8, Motor/Solenoid-Operated Valves*

Equipment Description *Vent and Drain F180 and F181 Pilot Air SOV*



(Picture 10)

Seismic Walkdown Checklist (SWC)

Equipment ID No. *C4103C001A* Equip. Class[1] *5, Horizontal Pumps*

Equipment Description *Standby Liquid Control North Reactor Pump*

Location: Bldg. *RB* Floor El. *659'-6"* Room, Area *A-33, Col. F-10*

Manufacturer, Model, Etc. (optional but recommended) *Union Pump Model 2X3TD-60*

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   No bent, broken, missing or loose hardware.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   No corrosion, anchor bolts are painted.

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

5. Is the anchorage configuration consistent 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☐
   Bolt configuration is consistent with Dwg. M-3029, Rev F and DCR M-0129, dated 8/15/79. See Photos DSC0114 and DSC0115.
   NO POSTINGS AGAINST M-3029, REV. F DSK 10/12/12

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   Anchor bolts are in good condition and as-built condition is consistent with design documents.

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

Seismic Walkdown Checklist (SWC)

Equipment ID No. *C4103C001A* Equip. Class[1] *5, Horizontal Pumps*

Equipment Description *Standby Liquid Control North Reactor Pump*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   Nearby equipment and conduits are adequately supported so as to prevent impacting the pumps soft targets.

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   No ceiling tiles or masonry block walls in the area. No light fixtures over the equipment. Conduit/raceways are adequately supported. See Photo DSC00247.

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   Attached lines have adequate flexibility to the pump components. See Photo DSC00239.

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

Other Adverse Conditions

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☐ N☒ U☐
    Poorly supported heat trace pull box – initiated CARD 12-26633, see Photo DSC00238.

Seismic Walkdown Checklist (SWC)

Equipment ID No. *C4103C001A* Equip. Class[1] *5, Horizontal Pumps*

Equipment Description *Standby Liquid Control North Reactor Pump*

Comments (Additional pages may be added as necessary)

None.

☒ *Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #1 : *Rohit Vadhar* Date: 8/31/12

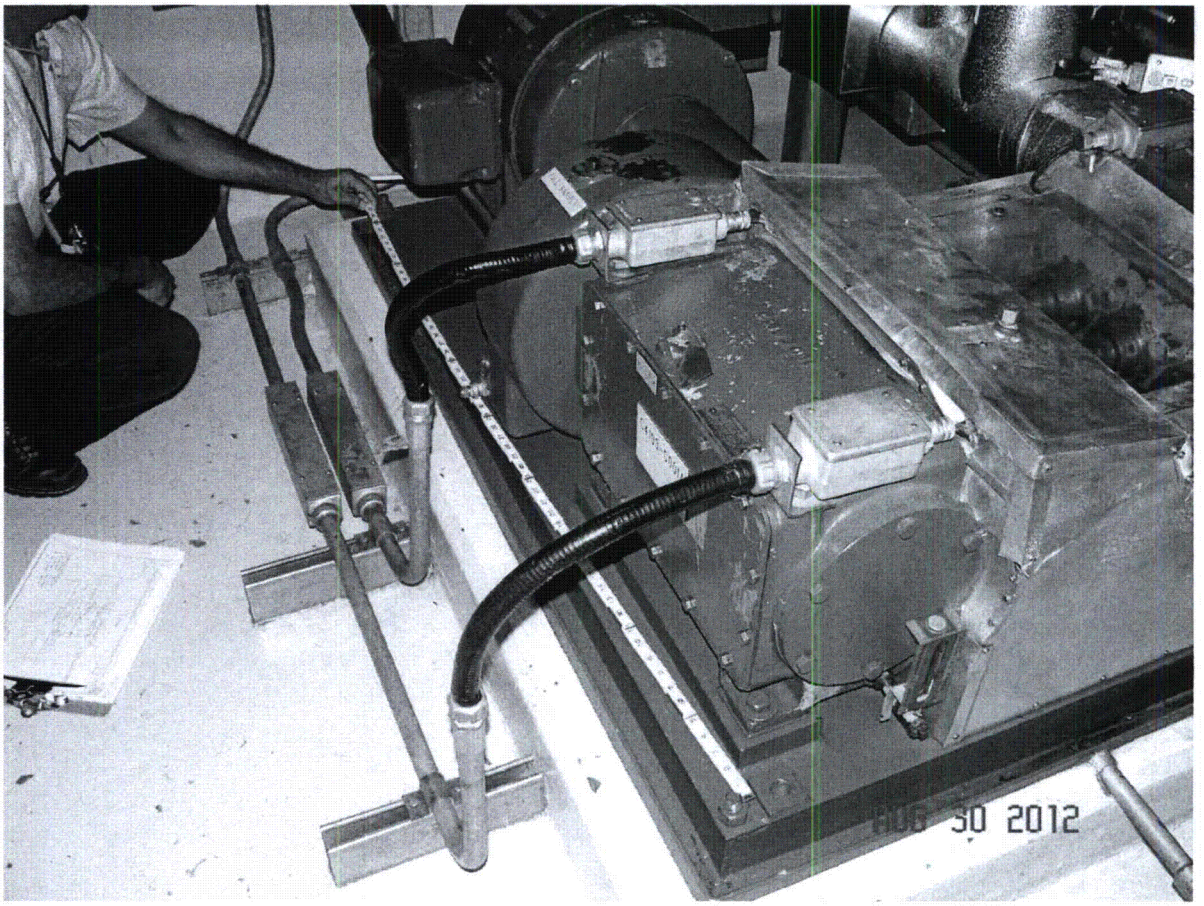
☒ *Seismic Engineer Walkdown PSE-53 Qualified*

Evaluator #2 : *Marc Meyer* Date: 08/31/12

Seismic Walkdown Pictures

Equipment ID No. *C4103C001A* Equipment Class: *5, Horizontal Pumps*

Equipment Description *Standby Liquid Control North Reactor Pump*



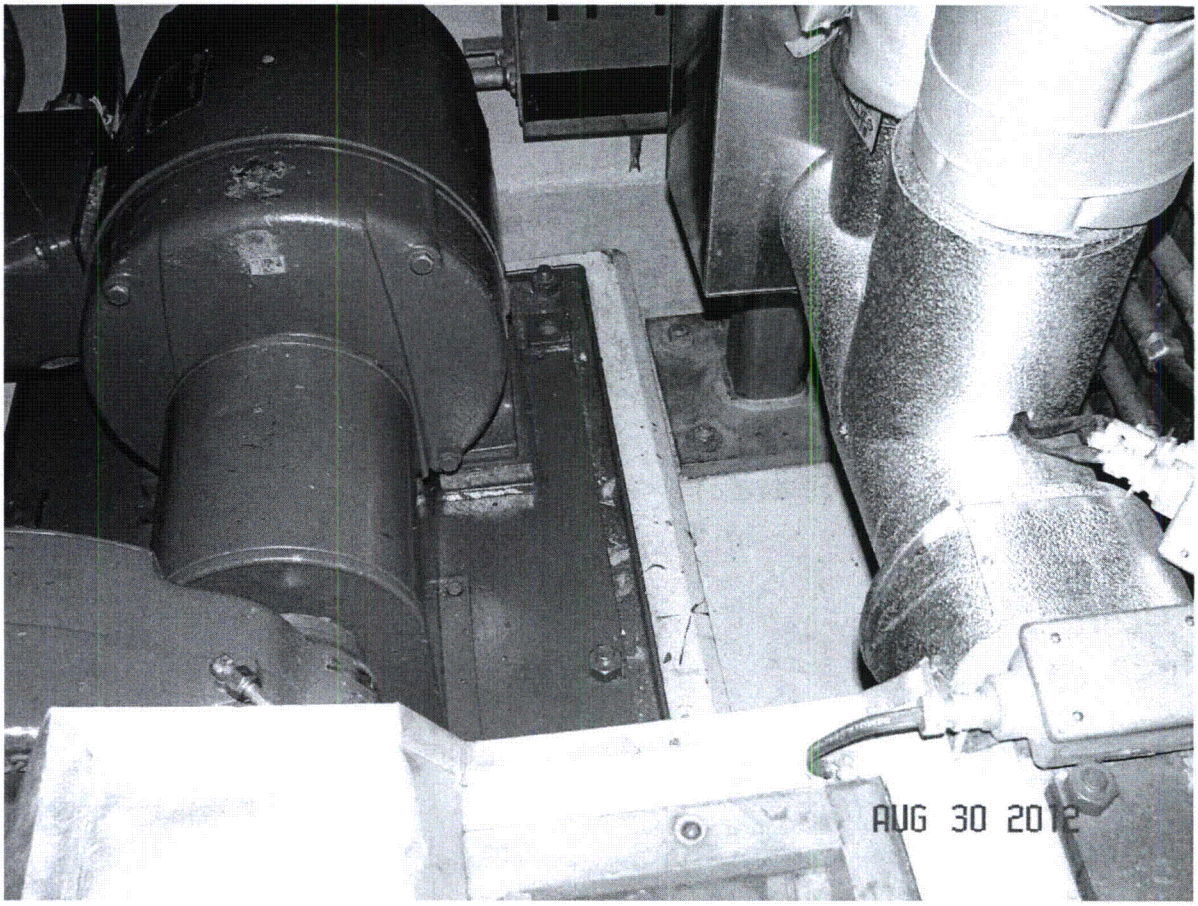
(DSC00114)

"Bolt Configuration"

Seismic Walkdown Pictures

Equipment ID No. *C4103C001A* Equipment Class: *5, Horizontal Pumps*

Equipment Description *Standby Liquid Control North Reactor Pump*



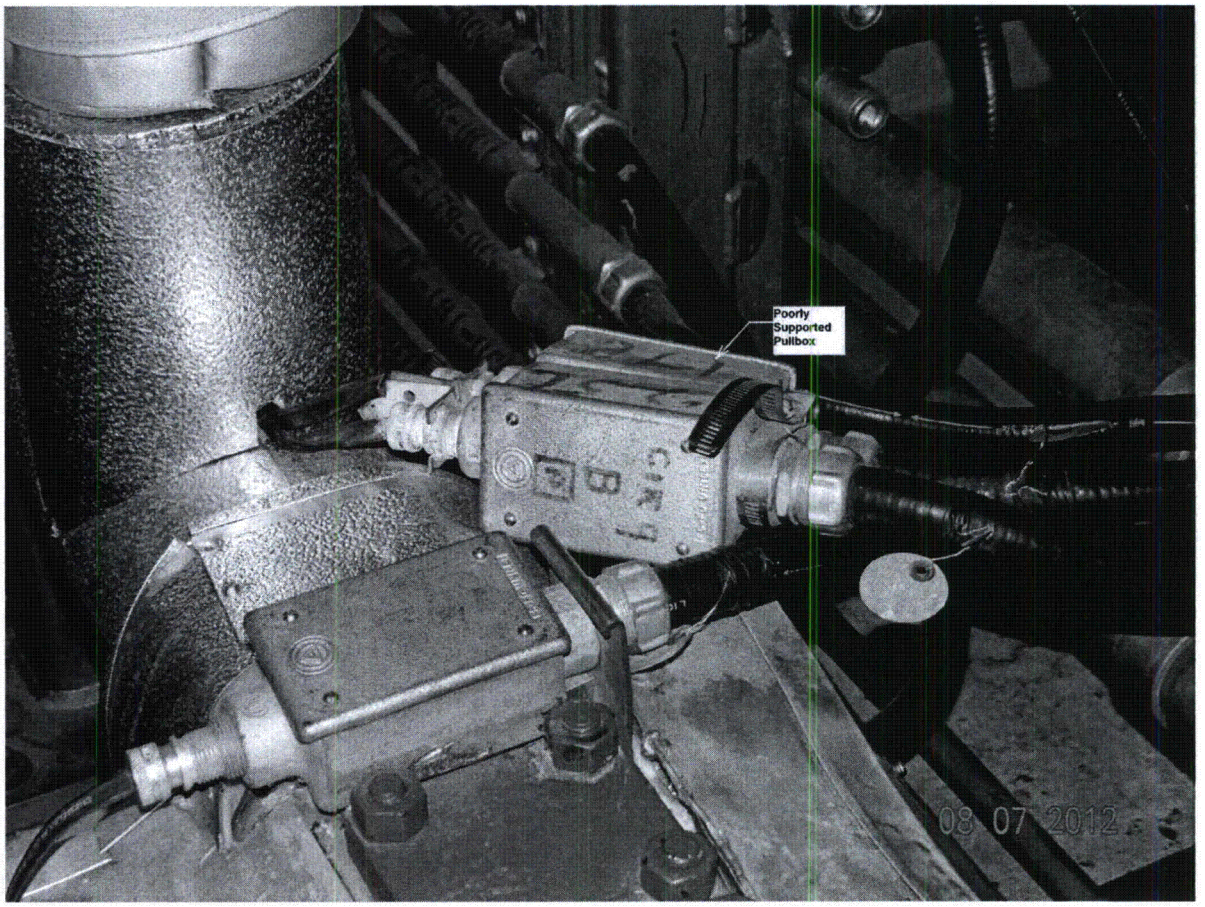
(DSC00115)

"Bolt Configuration"

Seismic Walkdown Pictures

Equipment ID No. *C4103C001A* Equipment Class: *5, Horizontal Pumps*

Equipment Description *Standby Liquid Control North Reactor Pump*



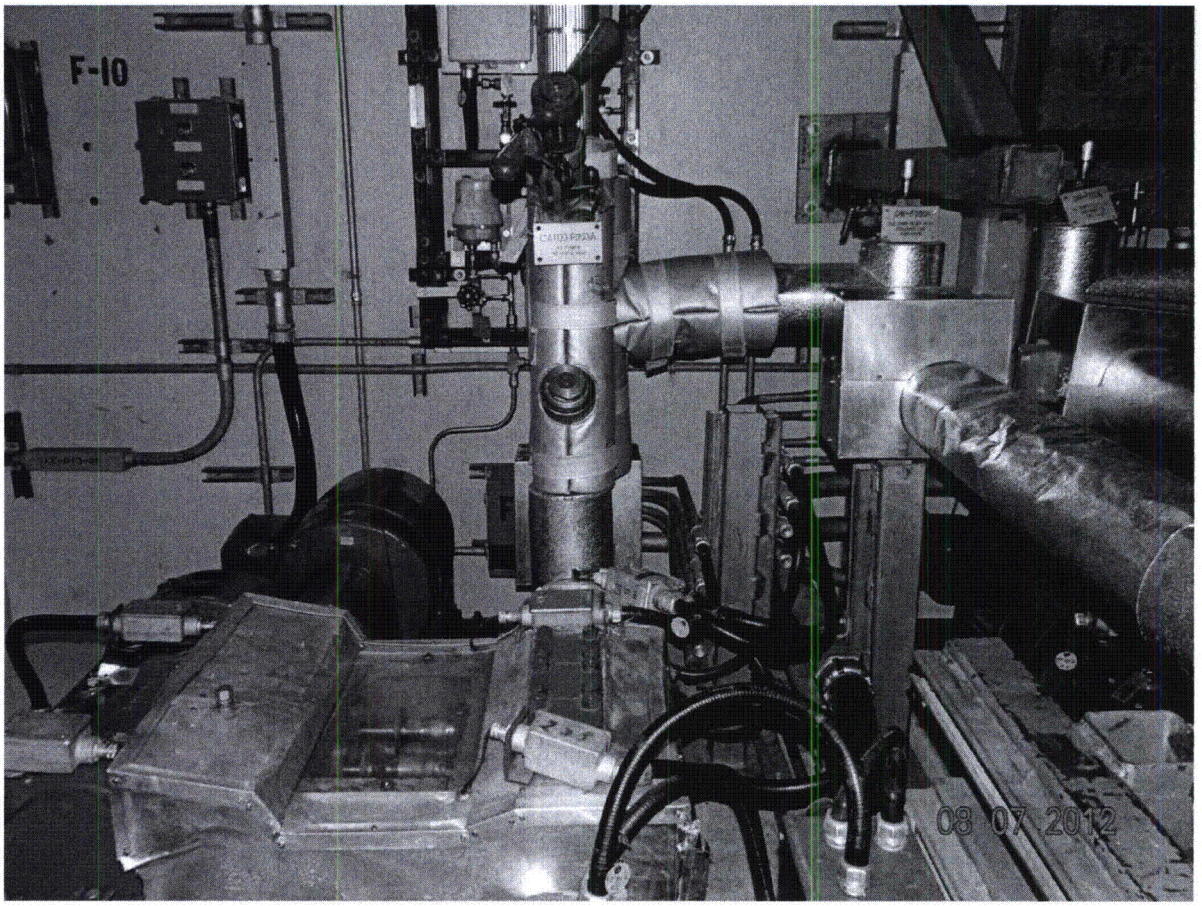
DSC00238

"Poorly Supported Heat Trace Pullbox"

Seismic Walkdown Pictures

Equipment ID No. *C4103C001A* Equipment Class: *5, Horizontal Pumps*

Equipment Description *Standby Liquid Control North Reactor Pump*



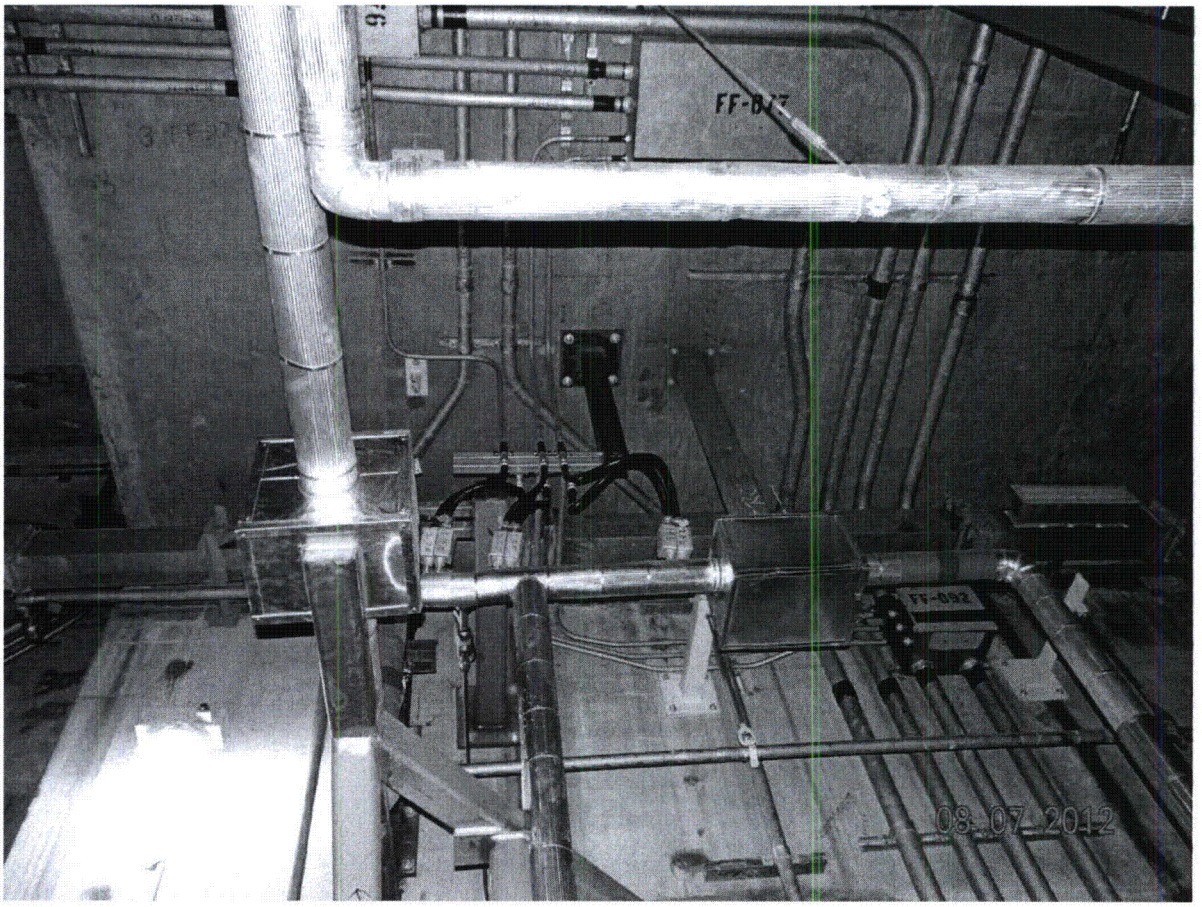
(DSC00239)

"Near Vicinity of Pump"

Seismic Walkdown Pictures

Equipment ID No. *C4103C001A* Equipment Class: *5, Horizontal Pumps*

Equipment Description *Standby Liquid Control North Reactor Pump*



(DSC00247)

"Looking up to ceiling"