LR-N13-0172

Enclosure 1

Salem Nuclear Generating Station Unit 1 Response to the 50.54(f) Information Request Regarding Fukushima Near-Term Task Force Recommendation 2.3: Seismic

Attachments 3 and 6 to Enclosure 1 are considered sensitive, unclassified (non-safeguard) information in accordance with 10 CFR 2.390, "Public inspections, exemptions, requests for withholding." As such, PSEG requests that the information contained in the attachments be withheld from public disclosure.

Enclosure 1

PSEG NUCLEAR LLC
Salem Nuclear Generating Station Unit 1

Response to the 50.54(f) Information Request Regarding Fukushima Near-Term Task Force Recommendation 2.3: Seismic

Report SL-011549
Revision 3

The signatures below document PSEG Nuclear LLC review and approval of this report:

Reviewed By:

PSEG Fukushima Response Engineering - Salem	12-13-13 Date
PSEG Fukushima Response Licensing	12-13-13 Date

Approved By:

PSEG Fukushima Response Manager - Corporate	12/13/13 Date

Attachments 3 and 6 to Enclosure 1 are considered sensitive, unclassified (non-safeguard) information in accordance with 10 CFR 2.390, "Public inspections, exemptions, requests for withholding." As such, PSEG requests that the information contained in the attachments be withheld from public disclosure.

PSEG

NUCLEAR LLC

PSEG NUCLEAR
Salem Nuclear Generating Station Unit 1

Response to the 50.54(f) Information Request Regarding Fukushima Near-Term Task Force Recommendation 2.3: Seismic

Report SL-011549
Revision 3 | R3
December 12, 2013
Project No. 12800-217

Nuclear Safety Related

Prepared by

Sargent & Lundy LLC

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PSEG Nuclear (PSEG)

Salem Nuclear Generating Station Unit 1

Seismic Walkdown Report

ISSUE SUMMARY AND APPROVAL PAGE

This is to certify that Revision 3 to the *Seismic Walkdown Report* has been prepared, reviewed and approved in accordance with Sargent & Lundy's Standard Operating Procedure SOP-0405, which is based on ANSI/ISO/ASSQC Q9001 Quality Management Systems.

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PURPOSE/OBJECTIVE FOR REVISION 3

The purpose of revision 3 is to: 1) Update the table of Potentially Adverse Seismic Conditions (PASC's) (Table 6-1) to include the results of the seismic walkdowns that were performed during the Unit 1 refueling outage, 1R22. 2) Update the Seismic Walkdown Equipment List (SWEL) and Attachment 6 to include a component substitution made during the Unit 1 refueling outage, 1R22. 3) Include a PASC in the SWEL that was resolved through the Corrective Active Program during the original walkdowns.

LIST OF AFFECTED PAGES FOR REVISION 3

The following pages were affected/revised by Revision 3: Cover Sheet (page i), page iii, page iv, page vi, page 13, Attachment 2 page 1, Attachment 6, pages A2, A4 & A5.

The following pages were deleted by Revision 3: page iii.a, page iv.a R3

The following pages from Rev. 2 were assigned different page numbers by Revision 3: Page iv.b as iv.a, Pages 14 to 18 as 15 to 19 respectively.

The following pages were inserted by Revision 3: Page 14

SUMMARY OF REVISION 3

The table of contents was revised to add a second sheet to table 6-1. Table 6-1 was revised to add the Potentially Adverse Seismic Conditions from the walkdowns conducted during 1R22 and add a PASC that was found during the original walkdowns performed in 2012. The Seismic Walkdown Equipment List (SWEL) (Attachment 2) and section A.6.3.1 are revised to include a component substitutions made during the 1R22 refueling outage.

PURPOSE/OBJECTIVE FOR REVISION 2

The purpose of revision 2 is to reflect completion of the Salem Generating Station (SGS) Unit 1 seismic walkdowns by providing: 1) the results of the seismic walkdowns that were performed during the Unit 1 refueling outage, 1R22; and 2) an update of the status of potentially adverse seismic conditions that were identified during the seismic walkdowns and entered into PSEG's Corrective Action Program. The final results of the walkdown are included in Attachment 6.

LIST OF AFFECTED PAGES FOR REVISION 2

The following pages were affected/revised by Revision 2: Cover Sheet (page i), page vi, pages11-13, Attachment Index Sheet, Attachment 2 (SWEL), Seismic Walkdown Checklist (SWC) for component I1133 in Attachment 3.

The following pages from Rev. 1 were assigned different page numbers by Revision 2: page iii renumbered as page iii.a, page iv renumbered as page iv.a

The following pages were inserted by Revision 2: page iii, page iv, page iv.b, Attachment 6

SUMMARY OF REVISION 2

The table of contents and the attachment index sheet were revised to add Attachment 6. The main body of the report is revised to update the disposition of Corrective Action Program items that were identified during the original walkdowns. The Seismic Walkdown Equipment List (SWEL) (Attachment 2) is revised to include the component substitutions made during the 1R22 refueling outage. Attachment 3 is revised to show the open compartment photos for component I1133. Attachment 6 is added to document the walkdowns conducted during 1R22.

RESULTS

See Attachment 6 for the results of the walkdowns performed during the Unit 1 refueling outage, 1R22.

PSEG Nuclear (PSEG)

Salem Generating Station Unit 1

Seismic Walkdown Report

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ATTACHMENTS

ATTACHMENT 1A – SALEM UNIT 1 "BASE LIST 1", SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
ATTACHMENT 1B – SALEM UNIT 1 "BASE LIST 2", COMPONENTS ASSOCIATED WITH SPENT FUEL POOL
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1. INTRODUCTION

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 10.2) 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 10.1), to provide guidance to conduct Seismic Walkdowns required in the 50.54(f) Letter, Enclosure 3, Recommendation 2.3: Seismic. The seismic walkdowns are to identify and address degraded, non-conforming or unanalyzed conditions and to verify the current plant configuration with the current licensing basis.

2. PURPOSE/OBJECTIVE

This report provides the results of the seismic walkdowns at PSEG, Salem Nuclear Generating Station, Unit 1 performed in response to the NRC request for information pursuant to title 10 of the Code of Federal Regulations 50.54(f) letter dated March 12, "Enclosure 3, Recommendation 2.3: Seismic.

The approach and methodologies used in this report follows the EPRI Seismic Walkdown Guidance as documented in Ref. 10.1.

3. SEISMIC LICENSING BASIS

3.1. SEISMIC DESIGN

Salem UFSAR, Ref. 10.3 in Sec. 3.7 provides the Salem Plant licensing basis and design criteria as follows, "Plant structures and components are designed according to the criteria described herein to resist the dynamic forces resulting from the earthquake conditions postulated for the site. These structures and components are analyzed either dynamically or statically for the respective equivalent loadings according to their classification."

"Two types of seismic loadings are considered: Operational Basis Earthquake (OBE) and Design Basis Earthquake (DBE)." The DBE is synonymous with the Safe Shutdown Earthquake (SSE) used in Ref. 10.1.

"For the OBE loading condition, the nuclear steam supply system is designed to be capable of continued safe operation. Therefore, for this loading condition critical structures and equipment needed for this purpose are required to operate within design limit. The seismic design for the DBE is intended to provide a margin in design that assures capability to shut down and maintain the nuclear facility in a safe condition. In this case, it is only necessary to ensure that required critical structures and components do not lose their capability to perform their safety function.

This has come to be referred to as the "no-loss-of-function" criteria and the loading condition as the "design basis earthquake" loading condition.

Design Response Spectra

UFSAR Sec. 3.7.1.1 states, "The El Centro ground motion of May 18, 1940, was recommended by Dames and Moore as the most appropriate motion for the site. Its peak horizontal acceleration was normalized to 0.l0g and 0.20g for Operating and Design Basis Earthquake, respectively. Two-thirds of the above mentioned values are used for vertical ground motions, and they are considered to be acting simultaneously with the horizontal ground motion."

Damping Values Used in Seismic Analysis

UFSAR Sec. 3.7.1.2

Component	Damping Values			
	SSE		OBE	
	Salem	RG 1.61	Salem	RG 1.61
Large Diameter Piping Systems Greater than 12"	1.0	3.0	0.5	2.0
Small Diameter Piping Systems 12" or less	0.5	2.0	0.5	1.0
Concrete Structures	5.0	7.0	2.0	4.0
Bolted or Riveted Steel	5.0	8.0	2.5	4.0
Welded Steel	3.0	4.0	1.0	2.0

3.2. SEISMIC CATEGORY I STRUCTURES AND EQUIPMENT

Section 3 of the Salem Unit 1 UFSAR, Ref. 10.3 documents the seismic licensing basis and criteria used to design the Seismic Category I structures, systems, and components (SSCs).

Safety related mechanical equipment was analyzed for seismic conditions. However, complex mechanical equipment was qualified by type testing as recommended in WCAP-7558, "Seismic Vibration Testing with Sine Beats", UFSAR, Sec. 3.9.1.2.

"Seismic Category I instrumentation and electrical equipment is identified in Table 3.10-1. Electrical equipment that is not designed to seismic Category I criteria and whose structural failure could affect the operation of seismic Category I equipment is located, physically restrained, or structurally designed, such that its postulated structural failure during seismic

conditions does not prevent Category I electrical equipment from performing its safety function", UFSAR, Sec. 3.10.

"The methods of meeting the general requirements for seismic qualification of Category I instruments and electrical equipment as described by General Design Criteria (GDC) 1, 2, and 23 are described in Section 3.1. The general methods of implementing the requirements of Appendix B to 10CFR Part 50 are described in Section 17", UFSAR, Sec. 3.10.1.1

"The seismic Category I instrumentation and electrical equipment and their supports as listed in Table 3.10-1 are qualified in accordance with the methods described in IEEE Standard 344-1971", UFSAR, Sec. 3.10.1.1

In addition, Seismic Category I Balance of Plant (BOP) equipment was tested in accordance with IEEE Standard 344-1971, UFSAR Sec. 3.6.

3.3. CODES AND STANDARDS

This section summarizes some of the codes and standards for the seismic qualification of structures, systems and components at Salem Unit 1. Others are included in applicable sections of the UFSAR.

Reinforced concrete: ACI 318-63, Building Code Requirements for Reinforced Concrete

Concrete Structures: ACI 301-66, Specification for Structural Concrete for Building

Steel Structures: AISC Manual of Steel Construction, 6th Edition or later Edition, as applicable

Electrical Equipment: IEEE Standard 344-1971, "Recommended Practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations"

4. PERSONNEL QUALIFICATION

The activities to be performed by qualified personnel and their responsibilities and qualifications are described in the EPRI guidance, Ref. 10.1. These responsibilities are:

- Selecting the SSCs that should be placed on the Seismic Walkdown Equipment List, as described in Section 3: Selection of SSCs
- Performing the Seismic Walkdowns and Area Walk-Bys, as described in Section 4: Seismic Walkdowns and Area Walk-Bys
- Performing the seismic licensing basis evaluations, as described in Section 5: Seismic Licensing Basis Evaluation (performed by PSEG)
- Identifying the list of plant-specific vulnerabilities identified during the IPEEE program and reporting the status of actions taken to eliminate or reduce them, as described in Section 7: IPEEE Vulnerabilities

- Peer Review as described in Section 6: Peer Review.

Table 4-1 below summarizes the roles of personnel who participated in the implementation of NTTF 2.3 Seismic Walkdowns.

Table 4-1 Personnel Roles

Name	Equipment Selection Personnel	Plant Operation Personnel	Seismic Walkdown Engineer (SWE)	IPEEE Reviewer	Peer Reviewer
Arie Blum	X		X	X	
John Skomorucha	X		X		
Jeffery Puskar			X		
Alexander Coologeorgen			X		
William Wallace	X	X			
Javad Mosleiman (1)					X
Bryan Morgan					X

Notes: 1. Peer Reviewer Team Leader.

The qualification and experience of above personnel is listed below:

Arie Blum, Phd, PE: Dr. Blum is a Senior Project Associate in the S&L Wilmington, DE office with 37 years experience in the nuclear industry in various Design Engineering roles and responsibilities; including design and analysis of structures and components, environmental and seismic qualification programs, design change modifications, Steam Generator replacement Project and Dry Cask Storage Project.

John Skomorucha, PE: Mr. Skomorucha is a Senior Project Associate in the S&L office in Wilmington, DE office with 24 years of experience in the civil/structural field of which 14 years are associated with the nuclear industry. His experience includes; civil/structural lead for various PSEG Salem Unit 1 & 2 and Hope Creek projects. These projects were; ISFSI dry cask storage system, security and various other projects associated with design change modifications of structures and components.

Jeffery Puskar, PE: Mr. Puskar is a Senior Associate in the S&L Wilmington, DE office with 10 years experience in structural/civil engineering field and 4 years experience in structural design and implementation of design change packages for several nuclear plants.

Alexander Coologeorgen: Mr. Coologeorgen is a Structural Associate in the S&L Chicago, IL office with 3 years of experience; he is currently involved with structural analysis efforts to support modification packages for the Entergy Corporation Palisades Nuclear Power Plant.

Bryan Morgan, PE: Mr. Morgan is Senior Associate in the S&L Wilmington, DE office with 12 years experience in structural/civil engineering field of which 6 years are in the nuclear industry. His experience includes: lead structural engineer on the security upgrade project, various plant modification projects for PSEG.

William Wallace: Mr. Wallace is a retired Licensed Reactor Operator at Salem Generating Station with over 25 years of licensed experience. He is currently working with the PSEG Fukushima Response Team.

Javad Moslemian: Mr. Moslemian is a Senior Manager in the S&L Chicago office with more than 29 years of experience in the analysis, design and construction of new and existing nuclear power plants. He has significant amount of experience in seismic analysis and design. He is a registered professional engineer in the state of Illinois and successfully completed Seismic Qualification Utility Group (SQUG) training in December of 2001. In addition, Mr. Moslemian is a member of the AISC N690 Code Committee TC12 and a process owner responsible for several Sargent & Lundy engineering processes. Mr. Moslemian is currently the structural engineering manager responsible for preparation of responses to NRC RAIs on Chapters 3.7 and 3.8 of STP Units 3 & 4. In his prior assignment as the structural engineering manager for South Texas Project (STP) Units 3 & 4, Mr. Moslemian was supervising the seismic analysis and design for all Seismic Category I structures.

The Seismic walkdowns personnel training certifications are included in Attachment 4.

5. SELECTION OF SSCs

5.1. METHODOLOGY

The methodology and process used in the selection of SSCs and in the development of the Seismic Walkdown Equipment List (SWEL) follows the guidance provided in Section 3: "Selection of SSCs" of Ref. 10.1. The SWEL consists of samples from two groups of components. The first group, which is the largest group, contains a sample of components that satisfy the five safety functions described in Ref. 10.1 and is referred to as SWEL 1. The second group is a sample of components related to Spent Fuel Pool (SFP), referred to as SWEL 2. The components from SWEL 1 and from SWEL 2 are combined to establish the SWEL, defining the scope of the seismic walkdowns.

The development of the SWEL was performed by qualified personnel as described in Section 4.0 of this report.

5.2. SWEL 1 – SAMPLE OF REQUIRED ITEMS FOR THE FIVE SAFETY FUNCTIONS

SWEL 1 is developed from the four screens identified in Section 3 of Ref. 10.1.

5.2.1 SCREENS 1 THROUGH 3 – SEISMIC CATEGORY I, EQUIPMENT OR SYSTEMS, SUPPORT THE FIVE FUNCTIONS

Screens 1 through 3 are used to select Seismic Category I equipment that support the five safety functions and do not undergo regular inspections. The equipment coming out of Screens 1 through 3 is referred to as "Base List 1."

Section 3 of Ref. 10.1 indicates that previously developed equipment lists can be used as a starting point for selecting components for SWEL 1. Salem Unit 1 developed a Safe Shutdown Equipment List (SSEL) for resolution of NRC unresolved safety issue USI A-46, "Seismic Qualification of Equipment in Operating Plants", as required by NRC Generic Letter 87-02, utilizing the methodology in Ref. 10.4. Although, the previous SSEL was not developed with the intent to specifically address containment function equipment, Selection Personnel reviewed the SSEL and identified components that satisfy the containment function. Consequently the SSEL addresses all of the following five safety functions:

1. Reactor reactivity control
2. Reactor coolant pressure control
3. Reactor coolant inventory control
4. Decay heat removal
5. Containment Function

Thus, the previous SSEL is considered as the "Base List 1", for the selection of the sample of components for SWEL 1. Attachment 1A provides Base List 1.

5.2.2 SCREEN 4 – SAMPLE CONSIDERATIONS

The equipment selection personnel used the five sample selection considerations described in Ref. 10.1 to select components for SWEL 1:

1. A variety of systems

A sample of components from each of the systems listed in Base List 1, Attachment 1A, was selected. SWEL 1 includes equipment in a variety of systems such as Main Steam, Feedwater, Component Cooling Water System, Residual Heat Removal System, Service Water, AC Power, and DC Power.

2. Major new and replacement equipment

The SAP data base for Work Orders was used to identify new and replaced components as indicated in the SWEL, Attachment 2.

3. A variety of types of equipment

Appendix B of the Ref. 10.1 provides the classes of equipment for the SSCs. The equipment selection personnel selected equipment classes based on the relative percentage of equipment classes in each system of the Base List 1. For example, SWEL 1 contains a large percentage of Motor Operated Valves (MOVs, Class 8) since there is a large percentage of MOVs in Base List 1.

At least one component from each equipment class was selected from each system listed in Base List 1. Upon completion of this process all equipment types have been represented except Motor Generators (Equipment Class 13) because Salem Unit 1 does not have any Seismic Category I equipment in this class of equipment.

4. A variety of environment

For each equipment type, as applicable, a variety of environments are represented. These environments include: Harsh (e.g. Containment), Mild (e.g. Control Room, Auxiliary Building), Outdoor/Intake Structure (e.g. Yard, Service Water Intake Structure).

5. Equipment enhanced due to vulnerability identified during the IPEEE program

As stated in Ref. 10.6 and Section 8.0 of this report, "no vulnerabilities have been identified" as part of the IPEEE program. Consequently, SWEL 1 does not include equipment that meets this sampling consideration.

Utilizing the above sampling consideration, a preliminary SWEL 1 was developed and reviewed by a Salem Licensed Operator. Items were selected or replaced based on a

channelized work week process. In addition, some items were selected or rejected based on accessibility. For example, items were excluded that would require disassembling of equipment or an item was on a protected train, so the similar item on the non-protected train was selected. The review resulted in 22 components and 16 AWBs for which accessibility to perform the inspection were deferred to the Refueling Outage (RFO). Deferred components are those located inside containment or are electrically energized equipment containing sensitive components.

5.3. SWEL 2 – SPENT FUEL POOL RELATED ITEMS

The Seismic Walkdown Equipment List 2 (SWEL 2) is a sample of the site Spent Fuel Pool (SFP) associated SSCs. The process for SWEL 2 development is defined in the Seismic Walkdown Guidance, Ref. 10.1 and consists of four screens:

- **Screen 1:** Seismic Category I
- **Screen 2:** Equipment or Systems
- **Screen 3:** Sample Considerations

In addition, SWEL 2 also includes a screen that considers SFP SSCs that can cause rapid drain-down of the SFP.

- **Screen 4:** Rapid drain-down

The subsections below document the screening of SSCs for SWEL 2.

5.3.1 SCREEN 1- SEISMIC CATEGORY I

For Salem Unit 1, the SAP database was used to identify seismic category I SSCs that are associated with Spent Fuel Pool.

5.3.2 SCREEN 2 – EQUIPMENT OR SYSTEMS

From Screen 1, components were excluded that were not appropriate for seismic walkdowns. After Screen 1 & 2, a "Base List 2" is developed and included in Attachment 1B. It is from this Base List 2 that a small sampling of SF components was selected in Screen 3.

5.3.3 SCREEN 3 – SAMPLE CONSIDERATIONS

The equipment selection personnel used the following considerations described in Ref. 10.1 to select components for SWEL 2:

1. A variety of systems

A sample of components from each of the systems listed in Base List 2, Attachment 1B, was selected. SWEL 2 includes equipment of several systems such as Component Cooling, Spent Fuel Cooling and Safety Injection.

2. Major new and replacement equipment

The SAP data base for Work Orders was used to identify new and replaced components as indicated in the SWEL, Attachment 2.

3. A variety of types of equipment

Appendix B of Ref. 10.1 provides the classes of equipment for the SSCs. The equipment selection personnel selected equipment classes based on the relative percentage of equipment classes in each system of the Base List 2.

From each associated Spent Fuel Pool related systems, at least one component was selected. Most items in Base List 2 were pipe and piping systems. The selection process eliminated similar or redundant items of a system. Other eliminated items were pipe, indicators, and orifice plates. Of all the safety related components, a sample of a valve, check valve and a heat exchanger was selected as listed below.

4. A variety of environment

It is expected to have each equipment type, as applicable, represent a variety of environments. For most SF components, the environment is mostly harsh.

5. Equipment enhanced due to vulnerability identified during the IPEEE program

As stated in Ref. 10.6 and Section 8.0 of this report, "no vulnerabilities have been identified" as part of the IPEEE program. Consequently, SWEL 2 does not include equipment that meets this sampling consideration.

Utilizing the above sampling consideration, a preliminary SWEL 2 was developed and reviewed by a Salem Licensed Operator. Items were selected or replaced based on a

channelized work week process. In addition, some items were selected or rejected based on accessibility. The review resulted in 3 components and 3 AWBs .

5.3.4. SCREEN 4: RAPID DRAIN-DOWN

The Salem Unit 1 Spent Fuel Pool contains no penetrations below about 10 ft. above the top of the fuel assemblies. Therefore, no components were added to SWEL 2. Per the guidance of Ref. 10.1, "if it is determined that there are no such penetrations, then no rapid drain-down items would be added to SWEL 2."

The SSCs included in the SWEL 2 after completing the screening process are as follows,

- Refueling Water Purification Pump (RWPP) Spent Fuel Demineralization Valve
- Spent Fuel Cooling Refuel Canal to Purifier Pump
- Spent Fuel Cooling Pit Heat Exchanger

SWEL 2 components are identified on the SWEL via a reference to a note in the note column.

5.4 SWEL

SWEL 1 and SWEL 2 were combined to establish the final SWEL, defining the scope of the seismic walkdowns. The final SWEL for Salem Unit 1 contains 99 components. The SWEL, Attachment 2, was reviewed to determine the population of anchored components and ensure that at least 50% of these components have been selected for anchorage verification during the seismic walkdowns, in accordance with the EPRI guidance, Ref. 10.1.

The SWEL identifies components that are potentially risk significant. The risk significance of a component was determined from the IPEEE report, Ref. 10.6, and utilizing the M-Rule criteria. The SWEL also identifies the components' applicable safety function for each component; this validates that components associated with all five functions are represented in the SWEL.

6. SEISMIC WALKDOWNS AND AREA WALK-BYS

6.1 PREPARATION

In preparation for the seismic walkdowns, the Seismic Walkdown Engineers identified the rooms that contained the SWEL items or (for large rooms) defined distinct areas of the plant within approximately 35 feet of each SWEL item. The SWEs assigned a unique number for each room or area of the plant, e.g. Area Walk-Bys (AWB) #S1-01 to catalog each area with the associated Area Walk-By Checklist (AWC) and Seismic Walkdown Checklist (SWC) for components located in the area. For Salem Unit 1, a total of 50 areas were defined for the 99 SWEL items.

The walkdowns were scheduled based on the protected equipment plant channel for each week; this resulted in some areas to be visited more than once to capture selected components from different channels.

Based on AWBs, walkdown packages were prepared. The walkdown packages included pertinent information about the components (e.g. design drawings, calculations, results from previous walkdowns) and the corresponding AWCs and SWCs.

6.2 AREA WALK-BYS (AWB) AND SEISMIC WALKDOWNS

Seismic walkdowns were performed by a team of two SWEs in accordance with the EPRI guidance Ref. 10.1. The focus of the seismic walkdowns was to perform visual inspections to identify potentially adverse seismic conditions. The SWEs relied upon their engineering judgment and training to identify potentially adverse anchorage conditions, adverse seismic spatial interactions, and any other adverse conditions as described in Ref. 10.1. The SWEs also verified that the anchorage configuration of at least 50% of the anchored components is consistent with the plant documentation.

Seismic walkdowns will be performed for all 99 components on the final SWEL and for all 50 areas that contain the components.

6.3 RESULTS

6.3.1. SEISMIC WALKDOWNS

The results of the area walk-bys and the seismic walkdowns are documented on the associated AWCs and SWCs, which are contained in Attachment 3 and Attachment 6.

A total of 77 components and 34 AWC's are included in Attachment 3. A total of 22 components and 16 AWCs, that were deferred to the Unit 1 RFO22 in the spring of 2013, are included in Attachment 6. Components deferred to the RFO are identified in the SWEL (notes column). R2

6.3.2. ANCHORAGE VERIFICATION

As required by the EPRI guidance, Ref. 10.1, at least 50% of the anchored components require verification of the anchorage to ensure its seismic adequacy and to verify its configuration against design documents.

The following is a summary of the anchorage verification:

- Total number of anchored components = 50 of which 15 are deferred to RFO
- Total number of anchorage verified components = 21
- Percentage of verified anchorage = 60% of components walked down

= 42% completed of total anchored components

Additional anchorage verification was completed during the Unit 1 RFO22 outage, see section A.6.3.2 of Attachment 6. R2

6.3.3. POTENTIALLY ADVERSE SEISMIC CONDITIONS

Issues and concerns identified during the walkdowns have been documented on the applicable checklists. Checklist boxes that have been checked "No" indicate a "potentially adverse seismic condition" may exist. All potentially adverse seismic conditions were entered into the Corrective Action Program (CAP) prior to completing a detailed licensing basis evaluation of the condition. Table 6-1 summarizes the potentially adverse conditions and the status of the condition.

Most of the potentially adverse seismic conditions identified during the walkdowns are associated with seismic interaction concerns between a component and its surroundings. The other issues are associated with pipe supports and a column in corroded condition and one component with a cracked pedestal.

These issues have been assessed and judged not to involve a significant adverse seismic condition and thus, immediate actions were not required. Some will require supplemental evaluations, as discussed in Section 7.0, and some will require corrective actions. These issues have been entered into the Corrective Action Program (CAP). Corrective actions have been scheduled and supplemental evaluations assigned Order numbers. These issues are summarized in Table 6-1 and in section A.6.3.3 of Attachment 6. R2

All non-seismic conditions identified during the walkdowns were brought to the attention of plant personnel and Notifications were written as necessary. An example of non-seismic conditions includes housekeeping items (e.g. trash or small tools left in plant areas). These items are not specifically documented in this report, but are available through PSEG's CAP database.

Table 6-1: Salem Unit 1 – Potentially Adverse Seismic Conditions

Notification No.	Date Created	AWB No.	SWC No.	Description of Condition	Status	Comments
20575538	9/19/2012	S1-1		Small bore pipe support for 11SW11 in corroded condition	OPEN	Note 1
20575539	9/19/2012	S1-1		Small bore pipe support for 11SW12 in corroded condition	OPEN	Note 1
20575540	9/19/2012	S1-1		Small bore pipe support for 13SW11 in corroded condition	COMPLETED	Duplicate of 20258764. Hanger replaced.
20575541	9/19/2012	S1-1		Small bore pipe support for 13SW12 in corroded condition	COMPLETED	Duplicate of 20258764. Hanger replaced.
20575858	9/24/2012		12MS10	Valve actuator is butting against steel beam	COMPLETED	Engineering Evaluation determined design function not impaired as –is, however, field work was also completed in order to provide ¾" cold gap
20576064	9/24/2012		1CCE5	11CC HX pedestal crack	COMPLETED	Crack determined to be non-structural, regrouted
20576382	9/27/2012	S1-25		Portable fan could fall on pipe	COMPLETED	Fan moved to another area
20576393	9/28/2012	S1-25		Chair w/wheels not restrained	COMPLETED	Chair was properly secured
20578431	10/11/2012		1SWE1	Pipe support for 1SW828 has 1/2" gap	COMPLETED	Engineering Evaluation determined that gap was sufficient

R2

R3

Note 1: Subject to condition-based monitoring until condition is corrected as part of long term Service Water Intake Structure material condition improvements. R3

Table 6-1: Salem Unit 1 – Potentially Adverse Seismic Conditions (Continued)

Notification No.	Date Created	AWB No.	SWC No.	Description of Condition	Status	Comments
20578432	10/11/2012		1SWE1	Tube sheet support for Valve 11SW11 is 1 1/4"away from motor	COMPLETED	Engineering Evaluation determined that gap was sufficient
20578436	10/11/2012	S1-47		Valve 1CC243 too close to the floor	COMPLETED	Engineering Evaluation determined that gap was sufficient
20583685	11/13/2012	S1-31		Corroded Columns in Service Water Intake Structure at El. 130'	OPEN	Note 1
20583601	11/14/2012	S1-31		Overhead duct configuration at SWIS El. 133'	COMPLETED	Added to Table 6-1 in Revision 3 for consistency with as-found documented in AWC S1-31. Subsequently determined to be consistent with design.
20603757	4/16/13	S1-12		Loose anchor bolts on support for valve 11SW71	COMPLETED	Identified during the Unit 1, 22nd refueling outage (1R22) walkdown.
20604980	4/24/13	S1-38		Unrestrained cart in front of panel 335-1	COMPLETED	Identified during the 1R22 walkdown.

Note 1: Subject to condition-based monitoring until condition is corrected as part of long term Service Water Intake Structure material condition improvements.

R3

7. LICENSING BASIS EVALUATIONS

All potentially adverse seismic conditions identified during the walkdowns were entered into the site CAP for review and disposition in accordance with plant's existing process and procedures. Licensing basis reviews were performed as part of the CAP process by PSEG personnel familiar with the seismic licensing basis and safety-functions of the equipment. Table 6-1 lists all potentially adverse seismic conditions and the status of each item in the CAP process.

No plant design modifications resulted from the potentially adverse seismic conditions. Any corrective actions performed to enhance equipment are classified as repairs.

8. IPEEE VULUNERABILITY RESOLUTION REPORT

In its response to GL 88-20 Ref. 10.6 PSEG states that "no vulnerabilities have been identified" and therefore no enhancements to address seismic vulnerability were required. Consequently, the SWEL does not include any equipment enhanced or updated per the IPEEE program.

9. PEER REVIEW

Peer review was conducted in accordance with EPRI 1025286 guidance (Ref. 10.1). The peer review team consisted of two qualified individuals. The following peer reviews were performed:

- Review the selection of the SSCs included on the SWEL
- Review a sample of the checklists prepared for the Seismic Walkdowns and Area Walk-Bys
- Review the licensing basis evaluations (Within PSEG's CAP process, not available at the time of this review,)
- Review the decisions for entering the potentially adverse conditions into the CAP process
- Review the submittal report

Each of the above peer review activities were performed by both members of the peer review team.

9.1 REVIEW THE SELECTION OF SSC'S INCLUDED IN THE SWEL

A peer review of the Seismic Walkdown List (SWEL) SSCs was performed to ensure the SSCs were selected in accordance with the guidance in Section 3: Selection of SSCs of EPRI 1025286, Seismic Walkdown Guidance.

The peer review of the SWEL SSCs was conducted by performing the following steps:

- Verifying the basis for the "Base List 1" for SWEL 1

  The base list of SSCs used to develop SWEL 1 was obtained using the list of items generated in response to NRC Unresolved Safety Issue USI A-46, "Seismic Qualification

of Equipment in Operating Plants" (Ref. 10.4) as required by NRC Generic Letter 87-02 which was developed into a Safe Shutdown Equipment List (SSEL) for Salem Unit 1. Per Section 3: Selection of SSCs of the EPRI Seismic Walkdown Guidance, this is acceptable for establishing a base list.

- Verifying SSCs selected for SWEL 1 are Seismic Category I (Screen #1)

  The items listed in the USI A-46 list were used to develop a Safe Shutdown Equipment List which consists of Seismic Category I items and meets the criteria of Screen #1 as defined in Section 3: Selection of SSCs, in the EPRI Seismic Walkdown Guidance.

- Verifying SSCs selected for SWEL 1 are equipment or systems (i.e. valves, pumps, panels, tanks, batteries) (Screen #2)

  A review of SWEL 1 revealed no Seismic Category I Structures, Containment Penetrations or Seismic Category I Piping Systems were included. The list consists of mechanical and electrical equipment (i.e. pumps, valves, chillers, power supplies, tanks, MCCs) and therefore meets the criteria of Screen #2.

- Verifying SCCs selected for SWEL 1 support the 5 Safety Functions (Screen #3)

  A review of SWEL 1 shows the items listed support the 5 Safety Functions. Some items support more than one Safety Function and some Safety Functions are supported by more than one item. Therefore, SWEL 1 meets the criteria for Screen #3.

- Verifying SSCs selected for SWEL 1 include a variety of types of systems, major new and replacement equipment, a variety of types of equipment, a variety of environments and equipment enhanced due to vulnerabilities identified during the IPEEE program (Screen #4)

  - Items from each system listed in the Base List were chosen for SWEL 1.
  - New or replaced items have been identified on SWEL 1.
  - Items from all classes of equipment were selected for SWEL 1 with the exception of Class 13 (Motor Generators) as Salem Unit 1 does not have any Seismic Category I equipment in these equipment classes.
  - Items were chosen that are located in harsh environments (Containment), mild environments (Control Room, Auxiliary Building) and outside buildings (Service Water Intake Structure).
  - Per "PSEG Response to Generic Letter 88-20, Supplement 4, Individual Plant Examination for External Events (IPEEE) for Severe Accident Vulnerabilities, Salem Nuclear Generating Station" (Ref. 10.5), Section 7, no plant improvements involving plant equipment were required at SGS. Therefore, no IPEEE enhanced equipment was selected for SWEL 1.

As shown, SWEL 1 meets the criteria for Screen #4.

- Verifying SSCs selected for SWEL 2 relating to the Spent Fuel Pool (SFP) meet Screens #1 - #3 for SWEL 2 per EPRI 1025286

  SSCs associated with the SFP were identified using the SAP Database to create "Base List 2". The screening process in EPRI 1025286 was followed to develop SWEL 2.

  No penetrations below about 10ft above the top of the fuel assemblies were identified for Salem Unit 1. Therefore, in accordance with Section 3: Selection of SSCs of the EPRI Seismic Walkdown Guidance, no rapid drain-down items were added to SWEL 2. Therefore, SWEL 2 meets the criteria for Screen #4.

The lists for SWEL 1 and SWEL 2 were then combined to form the SWEL used for the Seismic Walkdowns.

No issues requiring resolution were found during the peer review of the selection of SSCs.

The SWEL meets all requirements set forth in Section 3: Selection of SSCs of the EPRI Seismic Walkdown Guidance.

Attachment F: Checklist for Peer Review of SSC Selection has been completed with all questions being answered yes. (See Attachment 5)

9.2 REVIEW A SAMPLE OF THE CHECKLIST PREPARED FOR THE SEISMIC WALKDOWNS AND AREA WALK-BYS

Considering the experience and qualification of the Seismic Walkdown Engineers (SWEs), the peer review team selected 15% of the completed seismic walkdown and walk-bys for review. The selection included a number of components and areas with reported potential adverse seismic conditions. In addition the SWEs were interviewed by the peer review team to ensure that the seismic walkdowns and area walk-bys were conducted in accordance with EPRI 1025286 guidelines.

The review resulted in a number of editorial comments for further clarity and consistency of the seismic walkdown and area walk-by checklists. These editorial comments were satisfactorily resolved. The review did not result in the identification of any new potentially adverse seismic conditions.

Based on this review and satisfactory resolution of peer review comments, it was concluded that the seismic walkdown of the components and area walk-bys were conducted properly in accordance with Section 4 of EPRI 1025286 guidance.

9.3 REVIEW THE LICENSING BASIS EVALUATIONS

All potentially adverse seismic conditions identified during the seismic walkdown of components and area walk-bys were entered in the CAP program through creation of notifications in SAP for further evaluations. No licensing basis evaluations were performed outside the CAP process.

9.4 REVIEW THE DECISION FOR ENTERING THE POTENTIALLY ADVERSE SEISMIC CONDITIONS INTO CAP PROCESS

During the Seismic Walkdowns and Area Walk-Bys, the following steps were taken when Potentially Adverse Conditions were identified:

- Any potentially adverse seismic conditions found in the field were noted on the AWCs and SWCs.
- Upon returning from the walkdown, the SWEs reported the issues and PSEG created the notification in CAP.
- As required these notifications were then reviewed by engineering which entailed reviewing the as-installed condition found in the field against Seismic Qualification Documentation (SQD), i.e. calculation, to determine if the as-installed condition was consistent with the SQD and thereby the Current Licensing Basis (CLB).
- If the as-installed condition was determined to be consistent with the SQD, the notification was dispositioned stating that fact and no further action was taken. If the as-installed condition was determined not to be consistent with the SQD, a work order was created to perform further technical evaluations and any corrective actions require, i.e. revise calculations.

This process ensured any potential licensing basis issue was documented and reviewed by the appropriate personnel.

9.5 REVIEW THE SUBMITTAL REPORT

The submittal report was reviewed in detail to ensure that the objectives and requirements of the 50.54(f) letter were met. The editorial comments provided by the peer review team were satisfactorily resolved and it was concluded that the report met the objectives and requirements of the 50.54(f) letter.

10. REFERENCES

10.1 Reference: EPRI Technical Report 1025286, Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic, June 2012

10.2 NRC Letter dated March 12, 2012, "Request for Information Pursuant to Title 10 of the Code of Federal regulations 50.54 (f), Recommendation 2.1, 2.3 and 9.3 of Near –Term Task Force Review of the Insights from the Fukushima Daiichi Accident", Enclosure 3, "Recommendation 2.3: Seismic."

10.3 Salem UFSAR, Rev. 26

10.4 Seismic Qualification Utility Group SQUG), "Generic Implementation Procedure (GIP)", Rev. 2, February 14, 1992.

10.5 PSEG, Generic Letter 87-02 and Supplement 1 USI A-46 Walkdown Summary Report Salem Generating Station Units Nos. 1 and 2, Docket Nos. 50-272 and 50-311 Supplemental Submittal, March 29, 1996

10.6 PSEG Response to Generic Letter 88-20, Supplement 4, "Individual Plant Examination for External Events (IPEEE) for Severe Accident Vulnerabilities," Salem Nuclear Generating Station, Unit Nos. 1 and 2, Docket Nos. 50-272 and 50-311, January 29, 1996.

ATTACHMENTS

ATTACHMENT 1A – SALEM UNIT 1 - "BASE LIST 1", SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
ATTACHMENT 1B – SALEM UNIT 1 – "BASE LIST 2", COMPONENTS ASSOCIATED WITH SPENT FUEL POOL
ATTACHMENT 2 – SEISMIC WALKDOWN EQUIPMENT LIST (SWEL)
ATTACHMENT 3 – AREA WALK-BY CHECKLISTS (AWC) AND SEISMIC WALKDOWN CHECKLISTS (SWC)
ATTACHMENT 4 – SEISMIC WALKDOWNS ENGINEER CERTIFICATIONS
ATTACHMENT 5 – CHECKLIST FOR PEER REVIEW OF SSC SELECTION
ATTACHMENT 6 – WALKDOWNS PERFORMED DURING 1R22 OUTAGE | R2

ATTACHMENT 1A – SALEM UNIT 1 "BASE LIST 1", SAFE SHUTDOWN EQUIPMENT LIST (SSEL)

ATTACHMENT A

SALEM UNIT 1 SAFE SHUTDOWN EQUIPMENT LIST
(122 Pages)

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
	18	101-1	EP	11 RHR INSTRUMENT PANEL		Aux 1	N/A	N/A	N/A		
1						045	21	N/A	N/A		
9117						11 RHR Rm & Inst Rack 101		PASSIVE			
	18	102-1	EP	12 RHR INSTRUMENT PANEL		Aux 1	N/A	N/A	N/A		
1						045	21	N/A	N/A		
9118						Instrument Rack 102		PASSIVE			
	20	103-1	EP	1 RAD WASTE LQUID AUX SUPM TNK LVL PANEL		Aux 1	S	ENERG	N/A		
1						122		ENERG	N/A		
9040						1 Control Rm		ACTIVE			
1	7	11AF11	AF	AUX FEED - S/G LEVEL CONTROL V	205236	Aux 1	N/A	OPEN	N/A		1FA3968
1						084		OPEN	N/A		
4021						13 Aux Fd Pmp Rm		PASSIVE			
2	7	11AF21	AF	AUX FEED - S/G LEVEL CONTROL V	205236	Aux 1	S	CLOSED	N/A		1FA3961
1						084		OPEN	N/A		
4015						11 Aux Fd Pmp Rm		ACTIVE			
3	1	11BF22	AF	11 SG FW STOP CHECK ISO VALVE (MOV)	205202, SHT. 3	IPA 1	N/A	CLOSED	N/A		
1						100		CLOSED	N/A		
4009						MS Pen Area		PASSIVE			
3	8	11CC16	CC	11 RHR HEAT EXCHANGER COMPONENT COOLING OUTLET VAVLE (MOV)	205231, SHT. 1	Aux 1	SR	CLOSED	I1136 (2A)		
1						055		OPEN	1ADE		
5143						11 RHR Vlv Rm		ACTIVE			
3	8	11CC3	CC	11-13 HEADER X-OVER VLV	205231, SHT. 1	Aux 1	SR	OPEN/CLOSED	I1136 (6E)		
1						084		OPEN	1ADE		
5108						11 CC Pmp Rm		ACTIVE			

CERTIFICATION:

The information identifying the equipment required to bring the plant to a safe shutdown condition on this Safe Shutdown Equipment List (SSEL) is, to the best of my knowledge and belief, correct and accurate. (One or more signature of Systems or Operations Engineers)

Print or Type Name/Title	Signature	Date	Print or Type Name/Title	Signature	Date
John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATI[illegible]STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL / NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	8	11CS2	CV	11 CS PMP DISCH MOV	205235	Aux 1	R	CLOSED	NR		
1						084	1	CLOSED	NR		
3007 1107 2109						11 Cont Spray Pmp Rm		PASSIVE			
3	8	11CS36	CV	11 RHR TO C.S. STOP VLV, MOV	205235	IPA 1	R	CLOSED	NR		
1						078	1	CLOSED	NR		
3018 1118 2120						Rit Rm Upper Lvl		PASSIVE			
1	8	11DA13A	DA	11A DIESEL START AIR MOTOR SOL VALVE	205241, SHT. 1	Aux 1	BR	DEENERG	1AADC		
1		1SV878				100		ENERG	1ADE		
5015				1DAE4		1A D/G Rm		ACTIVE	1SWGR1ADC		
1	8	11DA13B	DA	12A DIESEL START AIR MOTOR SOL VALVE	205241, SHT. 2	Aux 1	BR	DEENERG	1BBDC		
1						100		ENERG	1BDE		
5039				1DAE23		1B D/G Rm		ACTIVE	1SWGR1BDC		
1	8	11DA13C	DA	13A DIESEL START AIR MOTOR SOL VALVE	205241, SHT. 3	Aux 1	BR	DEENERG	1CCDC		
1						100		ENERG	1CDE		
5063				1DAE38		1C D/G Rm		ACTIVE	1SWGR1CDC		
1	8	11DA14A	DA	11A DIESEL START AIR MOTOR SOL VALVE	205241, SHT. 1	Aux 1	BR	DEENERG	1AADC		
1						100		ENERG	1ADE		
5013				1DAE4		1A D/G Rm		ACTIVE	1SWGR1ADC		
1	8	11DA14B	DA	12A DIESEL START AIR MOTOR SOL VALVE	205241, SHT. 2	Aux 1	BR	DEENERG	1BBDC		
1						100		ENERG	1BDE		
5037				1DAE23		1B D/G Rm		ACTIVE	1SWGR1BDC		
1	8	11DA14C	DA	13A DIESEL START AIR MOTOR SOL VALVE	205241, SHT. 3	Aux 1	BR	DEENERG	1CCDC		
1						100		ENERG	1CDE		
5061				1DAE38		1C D/G Rm		ACTIVE	1SWGR1CDC		

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The information identifying the equipment required to bring the plant to a safe shutdown condition on this Safe Shutdown Equipment List (SSEL) is, to the best of my knowledge and belief, correct and accurate. (One or more signature of Systems or Operations Engineers)

Print or Type Name/Title	Signature	Date	Print or Type Name/Title	Signature	Date
John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	I	11DA6A	DA	11A DIESEL START AIR RCVR INLET CHK VALVE	205241, SHT. 1	Aux 1	N/A	N/A	N/A		
1						100		N/A	N/A		
5011						1A D/G Rm		PASSIVE			
1	I	11DA6B	DA	12A DIESEL START AIR RCVR INLET CHK VALVE	205241, SHT. 2	Aux 1	N/A	N/A	N/A		
1						100		N/A	N/A		
5035						1B D/G Rm		PASSIVE			
1	I	11DA6C	DA	13A DIESEL START AIR RCVR INLET CHK VALVE	205241, SHT. 3	Aux 1	N/A	N/A	N/A		
1						100		N/A	N/A		
5059						1C D/G Rm		PASSIVE			
3	I	11GB3	GB	11 S/G BLOWDOWN OUTLET HDR GATE VLV	205225, SHT. 1	Cntmnt 1	N/A	OPEN	N/A	N/A	N/A
1						078	19	OPEN/CLOSED	N/A		
4502						Cor at 13 Accumulator		ACTIVE			
3	7	11GB4	GB	11 S/G BLOWDOWN ISO VLV	205225, SHT. 2	IPA 1	S	OPEN	N/A		1SV706
1						078		CLOSED	N/A		
4500						Mech Pen Area		ACTIVE			
1	7	11MS10	MS	MS PWR RELIEF V	205203, SHT. 1	IPA 1	S	CLOSED	N/A		
1						100		OPEN	N/A		
4103						MS Pen Area		ACTIVE			
1OP	7	11MS11	MS	MS SAFETY VLV	205203, SHT. 1	IPA 1	S	OFF	N/A		
1						100		OFF/ON	N/A		
4102B						MS Pen Area		ACTIVE			
1OP	7	11MS12	MS	MS SAFETY VLV	205203, SHT. 1	IPA 1	S	OFF	N/A		
1						100		OFF/ON	N/A		
4102C						MS Pen Area		ACTIVE			

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Print or Type Name/Title	Signature	Date	Print or Type Name/Title	Signature	Date
John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1OP 1 4102D	7	11MS13	MS	MS SAFETY VLV	205203, SHT. 1	IPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
1OP 1 4102E	7	11MS14	MS	MS SAFETY VLV	205203, SHT. 1	IPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
1OP 1 4102F	7	11MS15	MS	MS SAFETY VLV	205203, SHT. 1	IPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
1 1 4104	7	11MS167	MS	MS ISOL V	205203, SHT. 1	IPA 1 100 MS Pen Area	S	OPEN CLOSED ACTIVE	N/A N/A		
1 1 4106	7	11MS169	MS	MS INLET V 3-WAY MOV AIR OPRD STM ASSIST VLV	205203, SHT. 1	IPA 1 100 MS Pen Area	S	CLOSED OPEN ACTIVE	N/A N/A		1SV274
1 1 4108	7	11MS171	MS	MS INLET V 3-WAY MOV AIR OPRD STM ASSIST VLV	205203, SHT. 1	IPA 1 100 MS Pen Area	S	CLOSED OPEN ACTIVE	N/A N/A		1SV275
1 1 4110	I	11MS18	MS	MS STOP BYP V	205203, SHT. 1	IPA 1 100 MS Pen Area	N/A	CLOSED CLOSED PASSIVE	N/A N/A		1SV587
3 1 3016 1116 2118	I	11RH12	CV	RHR HX BYP ISOL	205232, SHT. 1	Aux 1 045 11 RHR Pmp Rm	N/A 1	CLOSED CLOSED PASSIVE	N/A N/A		

CERTIFICATION:

The information identifying the equipment required to bring the plant to a safe shutdown condition on this Safe Shutdown Equipment List (SSEL) is, to the best of my knowledge and belief, correct and accurate. (One or more signature of Systems or Operations Engineers)

Print or Type Name/Title	Signature	Date	Print or Type Name/Title	Signature	Date
John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	7	11RH18	RH	11 RHR HX FLOW CONT V	205232, SHT. 1	Aux 1	S	OPEN	NR		11RH18-CONV
1						045		OPEN/CLOSED	NR		
4415						11 RHR Pmp Rm		ACTIVE			
1	18	11RH18-CONV	RH	E/P CONV FOR 11RH18	205232, SHT. 1	Aux 1	BR	OPERABLE	1DIS1A5YA		11RH18
1						045		OPERABLE	NR		
4416				11RH18		11 RHR Pmp Rm		ACTIVE			
1	8	11RH29	RH	RHR PMP MIN FLOW MOV	205232, SHT. 1	Aux 1	R	OPEN	NR		
1						045		OPEN	NR		
4413						11 RHR Pmp Rm		PASSIVE			
1	8	11RH4	RH	RHR PMP SUCT MOV	205232, SHT. 1	Aux 1	R	OPEN	NR		
1						055		OPEN	NR		
4411						11 RHR Vlv Rm		PASSIVE			
3	I	11SJ156	SJ	NO. 11 HOT LEG INJECTION LINE CHECK VLV	205234, SHT. 3	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3117						NR		PASSIVE			
3	I	11SJ17	SJ	BORON INJECTION LINE CHECK VALVE	205234, SHT. 1	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3113 4420						NR		PASSIVE			
3	8	11SJ44	CV	CONT SUMP SUCT VALVE, MOV	205234, SHT. 3	Aux 1	R	CLOSED	NR		
1						045	1	CLOSED	NR		
3014 1114 2116 4410A						11 Cont Sump Drn Vlv Rm		PASSIVE			
3	8	11SJ45	CV	RHR TO SI PMPS STOP MOV	205234, SHT. 2	Aux 1	R	CLOSED	NR		
1						084	1	CLOSED	NR		
3011 1111 2113						12 SI Pmp Rm		PASSIVE			

CERTIFICATION:

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3 1 5273	7	11SW127	SW	11CCHX SW OUTLET CONTROL VALVE	205242, SHT 3	Aux 1 084 11 CC Pmp Rm	S 8	OPEN OPEN PASSIVE	N/A N/A		1TA9206C
3 1 5277	7	11SW129	SW	11 CC PMP RM CLR SW CONT V	205242, SHT 3	Aux 1 084 12 Aux Fd Pmp Rm	S 8	CLOSED/OPEN OPEN ACTIVE	N/A N/A		1SV601
3 1 5277A	7	11SW153	SW	11 RHR PMP RM CLR SW CONT V	205242, SHT 3	Aux 1 045 11 RHR Pmp Rm	S 8	CLOSED CLOSED/OPEN ACTIVE	N/A N/A		1SV596
3 1 5291	8	11SW17	SW	SW PMP DISCH HDR X-OVER MOV	205242, SHT. 1	Yard 100 Srvc Wtr Bldg	R	OPEN OPEN PASSIVE	NR NR		
3 1 5215	8	11SW20	SW	TG HDR SUP MOV	205242, SHT. 1	Yard 100 Srvc Wtr Bldg	SR	OPEN CLOSED ACTIVE	I1103 (1H) 1CDE		
3 1 5219	8	11SW21	SW	DG CLG SW INLET V	205242, SHT. 3	Aux 1 084 11 Diesel FOST Rm	R	OPEN OPEN PASSIVE	NR NR		
3 1 5232	8	11SW22	SW	NUC HDR INLET MOV	205242, SHT. 3	IPA 1 078 SW Piping Rm (3)	R	OPEN OPEN PASSIVE	NR NR		
3 1 5244	7	11SW223	SW	11 FCU SW OUTLET V PNL700-1Q	205242, SHT 6	IPA 1 078 SW Piping Rm (1)	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV1468

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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	8	11SJ49	SJ	11 SI RHR OUTLET TO COLD LEG MOV	205234, SHT. 3	IPA 1	R	OPEN	N/A	N/A	
1						078	18	OPEN	N/A		
3011A 1111A 2113A						Mech Pen Area SG BD Hx		PASSIVE			
3	7	11SJ50	SJ	LOW HEAD SI TEST STOP V	205234, SHT. 3	Cntmnt 1	N/A	CLOSED	N/A	N/A	1SV111
1						078	1	CLOSED	N/A		
3012 1112 2114						Cor at Elevator		PASSIVE			
1	8	11SJ54	SJ	ACCUM OUTLET VALVE	205234, SHT. 4	Cntmnt 1	SR	OPEN	11107 (2D)		N/A
1						078	10	OPEN/CLOSED	1ADE		
2156						11 Accumulator		ACTIVE			
3	I	11SJ56	SJ	NO. 11 COLD LEG INJECTION LINE CHECK VALVE	205234, SHT. 4	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3109						NR		PASSIVE			
3	I	11SJ64	CV	MIN. FLOW LINE CHECK VALV. SI PUMP NO. 11	205234, SHT. 2	Aux 1	N/A	CLOSED	N/A		
1						084	1	CLOSED	N/A		
3047 1147 2149						11 SI Pmp Rm		PASSIVE			
3	I	11SJ922	SJ	100 GPM MINIFLOW I.V.	205234, SHT. 2	Aux 1	N/A	CLOSED	N/A		
1						084	1	CLOSED	N/A		
3045 1145 2147						11 SI Pmp Rm		PASSIVE			
3	7	11SW102	SW	CH CNDSR SW OUTLET V	205242, SHT. 5	IPA 1	N/A	OPEN	N/A		
1						100	9	OPEN	N/A		
5342						CH Wtr Pmp Area		PASSIVE			
3	7	11SW122	SW	CC HX SW INLET CONTROL VALVE	205242, SHT 3	Aux 1	S	OPEN/CLOSED	N/A		1SV613
1						084	11	OPEN	N/A		
5271						11 CC Pmp Rm		ACTIVE			

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SALEM GENERATING STATION - UNIT 1
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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3 1 5236	7	11SW58	SW	11 FCU SW INLET V	205242, SHT. 6	IPA 1 078 Mech Pen Area	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV622
3 1 5240	7	11SW65	SW	11 FCU SW THROT V	205242, SHT. 6	Cntmnt 1 100 460V Cnt Elec CC	N/A 12	OPEN OPEN PASSIVE	N/A N/A		
3 1 5242	7	11SW72	SW	11 CFCU SW OUTLET VA	205242, SHT 6	IPA 1 078 Mech Pen Area	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV623
3 1 5340	7	11SW92	SW	CH CNDSR SW CONT V	205242, SHT. 5	IPA 1 100 CH Wtr Pmp Area	S	CLOSED/OPEN OPEN ACTIVE	N/A N/A		1SV593
3 1 5376	7	11SW93	SW	11 CH CNDSR SW RECIRC V	205242, SHT. 5	IPA 1 100 CH Wtr Pmp Area	S 9	OPEN OPEN/CLOSED ACTIVE	N/A N/A		
1 1 4018	7	12AF11	AF	AUX FEED - S/G LEVEL CONTROL V	205236	Aux 1 084 12 Aux Fd Pmp Rm	N/A	OPEN OPEN PASSIVE	N/A N/A		1FA3967
2 1 4013	7	12AF21	AF	AUX FEED - S/G LEVEL CONTROL V	205236	Aux 1 084 12 Aux Fd Pmp Rm	S	CLOSED OPEN ACTIVE	N/A N/A		1FA3963
3 1 4014	I	12BF22	AF	12 SG FW STOP CHECK ISO VALVE (MOV)	205202, SHT. 3	OPA 1 100 MS Pen Area	N/A	CLOSED CLOSED PASSIVE	N/A N/A		

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3OP 1 5202	7	11SW24	SW	SW STR B/D CONT V	205242, SHT. 1	Yard 100 Srvc Wtr Bldg	S	OPEN/CLOSED OPEN/CLOSED ACTIVE	N/A N/A		1SV259
3OP 1 5203	R	11SW25	SW	11 SW STR B/D OUTLET V	205242, SHT. 1	Yard 100 Srvc Wtr Bldg	N/A	OPEN CLOSED ACTIVE	N/A N/A		
3 1 5232	7	11SW305	SW	NUC HDR BK REG IV PNL740-1A	205242, SHT. 3	IPA 1 078 SW Piping Rm (3)	N/A 9	CLOSED CLOSED PASSIVE	N/A N/A		
3 1 5220	7	11SW39	SW	1A DG SW INLET TO COOLER	205242, SHT. 3	Aux 1 100 1A D/G Rm	S	CLOSED OPEN ACTIVE	N/A N/A		1SV590
3 1 5226	7	11SW40	SW	1A D/G CLG SW DRN V	205242, SHT. 3	Aux 1 100 1A D/G Rm	N/A 20	OPEN CLOSED ACTIVE	N/A N/A		1SV590
3 1 5229	7	11SW42	SW	1A DG CLG SW THROT PNL 740-1Z	205242, SHT. 3	Aux 1 100 1A D/G Rm	S	OPEN/CLOSED OPEN ACTIVE	N/A N/A		
3 1 5233	7	11SW49	SW	NUC HDR BYP REG V	205242, SHT. 3	IPA 1 078 SW Piping Rm (3)	N/A 9	CLOSED CLOSED PASSIVE	N/A N/A		
3 1 5234	7	11SW57	SW	CONT FAN COIL UNIT SW ISOL	205242, SHT. 6	IPA 1 078 Mech Pen Area	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV1115

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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	8	12CC16	CC	12 RHR HEAT EXCHANGER COMPONENT COOLING OUTLET VAVLE (MOV)	205231, SHT. 1	Aux 1	SR	CLOSED	I1109 (4I)		
1						055		OPEN	1BDE		
5142						12 RHR Vlv Rm		ACTIVE			
3	8	12CC3	CC	12-13 HEADER X-OVER VLV	205231, SHT. 1	Aux 1	SR	OPEN/CLOSED	I1110 (6I)		
1						084		OPEN	1CDE		
5109						12 & 13 CC Pmp Rm		ACTIVE			
3	8	12CS2	CV	12 CS PMP DISCH MOV	205235	Aux 1	R	CLOSED	NR		
1						084	1	CLOSED	NR		
3008 1108 2110						12 Cont Spray Pmp Rm		PASSIVE			
3	8	12CS36	CV	RHR - CS STOP VA_MOV	205235	IPA 1	R	CLOSED	NR		
1						078	1	CLOSED	NR		
3019 1119 2121						Bit Rm Upper Lvl		PASSIVE			
1	8	12DA13A	DA	11B DIESEL START AIR MOTOR SOL VALVE	205241, SHT. 1	Aux 1	BR	DEENERG	1AADC		
1		1SV877				100		ENERG	1ADE		
5019				1DAE4		1A D/G Rm		ACTIVE	1SWGR1ADC		
1	8	12DA13B	DA	12B DIESEL START AIR MOTOR SOL VALVE	205241, SHT. 2	Aux 1	BR	DEENERG	1BBDC		
1						100		ENERG	1BDC		
5043				1DAE23		1B D/G Rm		ACTIVE	1SWGR1BDC		
1	8	12DA13C	DA	13B DIESEL START AIR MOTOR SOL VALVE	205241, SHT. 3	Aux 1	BR	DEENERG	1CCDC		
1						100		ENERG	1CDE		
5067				1DAE38		1C D/G Rm		ACTIVE	1SWGR1CDC		
1	8	12DA14A	DA	11B DIESEL START AIR MOTOR SOL VALVE	205241, SHT. 1	Aux 1	BR	DEENERG	1AADC		
1		1SV880				100		ENERG	1ADE		
5021				1DAE4		1A D/G Rm		ACTIVE	1SWGR1ADC		

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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 1 5045	8	12DA14B	DA	12B DIESEL START AIR MOTOR SOL VALVE 1DAE23	205241, SHT. 2	Aux 1 100 1B D/G Rm	BR	DEENERG ENERG ACTIVE	1BBDC 1BDE 1SWGR1BDC		
1 1 5069	8	12DA14C	DA	13B DIESEL START AIR MOTOR SOL VALVE 1DAE38	205241, SHT. 3	Aux 1 100 1C D/G Rm	BR	DEENERG ENERG ACTIVE	1CCDC 1CDE 1SWGR1CDC		
1 1 5017	I	12DA6A	DA	11A DIESEL START AIR RCVR INLET CHK VALVE	205241, SHT. 1	Aux 1 100 1A D/G Rm	N/A	N/A N/A PASSIVE	N/A N/A		
1 1 5041	I	12DA6B	DA	12B DIESEL START AIR RCVR INLET CHK VALVE	205241, SHT. 2	Aux 1 100 1B D/G Rm	N/A	N/A N/A PASSIVE	N/A N/A		
1 1 5065	I	12DA6C	DA	13B DIESEL START AIR RCVR INLET CHK VALVE 1DAE38	205241, SHT. 3	Aux 1 100 1C D/G Rm	N/A	N/A N/A PASSIVE	N/A N/A		
3 1 4506	7	12GB3	GB	12 S/G BLOWDOWN OUTLET HDR GATE VLV	205225, SHT. 1	Cntmnt 1 078 Cor at 13 Accumulator	N/A 19	OPEN OPEN/CLOSED ACTIVE	N/A N/A	N/A	N/A
3 1 4504	7	12GB4	GB	12 S/G BLOWDOWN ISO VLV	205225, SHT. 2	IPA 1 078 Mech Pen Area	S	OPEN CLOSED ACTIVE	N/A N/A		1SV707
3 1 8070	14	12MAC	EP	115VAC DISTRIBUTION CABINET	211370, SHT. 1	Aux 1 100 1 RELAY RM	S	ENERG ENERG ACTIVE	1INV1C6YC N/A		

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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2 1 4132	7	12MS10	MS	MS PWR RELIEF V	205203, SHT. 2	OPA 1 100 MS Pen Area	S	CLOSED OPEN ACTIVE	N/A N/A		
2OP 1 4130A	7	12MS11	MS	MS SAFETY VLV	205203, SHT. 2	OPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
2OP 1 4130B	7	12MS12	MS	MS SAFETY VLV	205203, SHT. 2	OPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
2OP 1 4130C	7	12MS13	MS	MS SAFETY VLV	205203, SHT. 2	OPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
2OP 1 4130D	7	12MS14	MS	MS SAFETY VLV	205203, SHT. 2	OPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
2OP 1 4130E	7	12MS15	MS	MS SAFETY VLV	205203, SHT. 2	OPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
2 1 4133	7	12MS167	MS	MS ISOL V	205203, SHT. 2	OPA 1 100 MS Pen Area	S	OPEN CLOSED ACTIVE	N/A N/A		
2 1 4135	7	12MS169	MS	MS INLET V 3-WAY MOV AIR OPRD STM ASSIST VLV	205203, SHT. 2	IPA 1 100 MS Pen Area	S	CLOSED OPEN ACTIVE	N/A N/A		1SV280

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2	7	12MS171	MS	MS INLET V 3-WAY MOV AIR OPRD STM ASSIST VLV	205203, SHT. 2	IPA 1	S	CLOSED	N/A		1SV281
1						100		OPEN	N/A		
4137						MS Pen Area		ACTIVE			
2	I	12MS18	MS	MS STOP BYP V	205203, SHT. 2	OPA 1	N/A	CLOSED	N/A		1SV581
1						100		CLOSED	N/A		
4139						MS Pen Area		PASSIVE			
3	I	12RH12	CV	RHR HX BYP ISOL	205232, SHT. 2	Aux 1	N/A	CLOSED	N/A		
1						045	1	CLOSED	N/A		
3017 1117 2119						12 RHR Pmp Rm		PASSIVE			
2	7	12RH18	RH	12 RHR HX FLOW CONT V	205232, SHT. 2	Aux 1	S	OPEN	NR		12RH18-CONV
1						045		OPEN/CLOSED	NR		
4406						12 RHR Pmp Rm		ACTIVE			
2	18	12RH18-CONV	RH	E/P CONVERTER FOR 12RH18	205232, SHT. 2	Aux 1	BR	OPERABLE	NR		
1						045		OPERABLE	NR		
4407				12RH18		12 RHR Pmp Rm		ACTIVE			
2	8	12RH29	RH	12 RHR PMP MIN FLOW MOV	205232, SHT. 2	Aux 1	R	OPEN	NR		
1						045		OPEN	NR		
4404						12 RHR Pmp Rm		PASSIVE			
2	8	12RH4	RH	12 RHR PMP SUCT MOV	205232, SHT. 2	Aux 1	R	OPEN	NR		
1						055		OPEN	NR		
4402						12 RHR Vlv Rm		PASSIVE			
3	I	12SJ156	SJ	NO. 12 HOT LEG INJECTION LINE CHECK VALVE	205234, SHT. 3	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3118						NR		PASSIVE			

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3	I	12SJ17	SJ	BORON INJECTION LINE CHECK VLV	205234, SHT. 1	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3114 4408						NR		PASSIVE			
3	8	12SJ44	CV	CONT SUMP SUCT VALVE, MOV	205234, SHT. 3	Aux 1	R	CLOSED	NR		
1						045	1	CLOSED	NR		
3015 1115 2117		4411A				Cont Sump Drn Vlv Rm		PASSIVE			
3	8	12SJ45	CV	RHR TO CHG SI PMPS STOP MOV	205234, SHT. 1	Aux 1	R	CLOSED	NR		
1						084	1	CLOSED	NR		
3053 1153 2155						11 CC Vlv Rm		PASSIVE			
3	8	12SJ49	SJ	12 SI RHR OUTLET TO COLD LEG MOV	205234, SHT. 3	IPA 1	R	OPEN	N/A	N/A	
1						078	18	OPEN	N/A		
3012A 1112A 2114A						Bit Rm Upper Lvl		PASSIVE			
3	7	12SJ50	CV	LOW HEAD SI TEST STOP V	205234, SHT. 3	Cntmnt 1	N/A	CLOSED	N/A		1SV110
1						078	1	CLOSED	N/A		
3013 1113 2115						Cor at Elevator		PASSIVE			
1	8	12SJ54	SJ	ACCUM OUTLET VALVE	205234, SHT. 4	Cntmnt 1	SR	OPEN	I1137 (2D)		N/A
1						078	10	OPEN/CLOSED	1BDE		
2157						12 Accumulator		ACTIVE			
3	I	12SJ56	SJ	NO. 12 COLD LEG INJECTION LINE CHECK VALVE	205234, SHT. 4	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3110						NR		PASSIVE			
3	3	12SJ64	CV	MIN FLOW LINE CHECK VLV, SI PUMP NO. 12	205234, SHT. 2	Aux 1	N/A	CLOSED	N/A		
1						084	1	CLOSED	N/A		
3048 1148 2150						12 SI Pmp Rm		PASSIVE			

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3	I	12SJ922	SJ	100 GPM MINIFLOW IV	205234, SHT. 2	Aux 1	N/A	CLOSED	N/A		
1						084	1	CLOSED	N/A		
3046 1146 2148						11 SI Pmp Rm		PASSIVE			
3	7	12SW102	SW	CH CNDSR SW OUTLET	205242, SHT. 5	IPA 1	N/A	OPEN	N/A		1PA8861
1						100	9	OPEN	N/A		
5345						CH Wtr Pmp Area		PASSIVE			
3	7	12SW129	SW	12 & 13 CC PMP RM CLR SW CONT V	205242, SHT. 4	Aux 1	S	CLOSED/OPEN	N/A		1SV603
1						084	14	OPEN	N/A		
5350						11 Aux Fd Pmp Rm		ACTIVE			
3	7	12SW153	SW	12 RHR PMP RM CLR SW INLET VALVE	205242, SHT. 4	Aux 1	S	CLOSED	N/A		1SV604
1						045		CLOSED/OPEN	N/A		
5350A						12 RHR Pmp Rm		ACTIVE			
3	8	12SW17	SW	SW PMP DISCH HDR X-OVER MOV	205242, SHT. 2	Yard	R	OPEN	NR		
1						100		OPEN	NR		
5294						Srvc Wtr Bldg		PASSIVE			
3	8	12SW20	SW	NUC HDR SUP MOV	205242, SHT. 1	Yard	R	OPEN	NR		
1						100		OPEN	NR		
5217						Srvc Wtr Bldg		PASSIVE			
3	8	12SW21	SW	DG CLG SW INLET V	205242, SHT. 3	Aux 1	R	OPEN	NR		
1						084		OPEN	NR		
5312						11 Diesel FOST Rm		PASSIVE			
3	8	12SW22	SW	NUC HDR INLET MOV	205242, SHT. 3	IPA 1	R	OPEN	NR		
1						078		OPEN	NR		
5313						SW Piping Run (4)		PASSIVE			

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3 1 5256	7	12SW223	SW	12 FCU SW OUTLET V PNL700-1P	205242, SHT 6	IPA 1 078 SW Piping Rm (1)	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV1469
3OP 1 5207	7	12SW24	SW	SW STR B/D CONT V	205242, SHT. 1	Yard 100 Srvc Wtr Bldg	S	OPEN/CLOSED OPEN/CLOSED ACTIVE	N/A N/A		1SV260
3OP 1 5209	R	12SW25	SW	12 SW STR B/D OUTLET V	205242, SHT. 1	Yard 100 Srvc Wtr Bldg	N/A	OPEN/CLOSED CLOSED ACTIVE	N/A N/A		
3 1 5314	7	12SW305	SW	NUC HDR BK REG IV PNL740-1B	205242, SHT. 3	IPA 1 078 SW Piping Rm (4)	N/A 13, 20	CLOSED CLOSED ACTIVE	N/A N/A		
3 1 5346	7	12SW376	SW	12B HX INLET VALVE	205242, SHT. 4	Aux 1 084 12 & 13 CC Pmp Rm	S 14	OPEN/CLOSED OPEN ACTIVE	N/A N/A		1SV1499
3 1 5347	7	12SW379	SW	12B HX OUTLET VALVE	205242, SHT. 4	Aux 1 084 12 & 13 CC Pmp Rm	S 14	OPEN/CLOSED OPEN ACTIVE	N/A N/A		1TA9264
3 1 5348	7	12SW380	SW	12A HX INLET VALVE	205242, SHT. 4	Aux 1 084 12 & 13 CC Pmp Rm	S 14	OPEN/CLOSED OPEN ACTIVE	N/A N/A		1SV1499
3 1 5347A	7	12SW383	SW	12A HX OUTLET VALVE	205242, SHT. 4	Aux 1 084 12 & 13 CC Pmp Rm	S 14	OPEN/CLOSED OPEN ACTIVE	N/A N/A		1TA9264

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3 1 5222	7	12SW39	SW	1B DG SW INLET TO COOLER	205242, SHT. 3	Aux 1 100 1B D/G Rm	S	CLOSED OPEN ACTIVE	N/A N/A		1SV591
3 1 5227	7	12SW40	SW	1B D/G CLG SW DRN V	205242, SHT. 3	Aux 1 100 1B D/G Rm	N/A 20	OPEN CLOSED ACTIVE	N/A N/A		1SV591
3 1 5230	7	12SW42	SW	1B DG CLG SW CONTROL PNL 7401AA	205242, SHT. 3	Aux 1 100 1B D/G Rm	S	OPEN/CLOSED OPEN ACTIVE	N/A N/A		
3 1 5315	7	12SW49	SW	NUC HDR BYP REG V PNL 740-1B	205242, SHT. 3	IPA 1 078 SW Piping Rm (4)	N/A 13, 20	CLOSED CLOSED ACTIVE	N/A N/A		IPA9224
3 1 5246	7	12SW57	SW	CONT FAN COIL UNIT SW ISOL	205242, SHT. 6	IPA 1 078 Mech Pen Area	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV1116
3 1 5248	7	12SW58	SW	12 CFCU SW INLET VA	205242, SHT 6	IPA 1 078 Mech Pen Area	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV625
3 1 5252	7	12SW65	SW	12 CFCU SW THROT VA	205242, SHT. 6	Cntmnt 1 100 460V Cnt Elec CC	N/A 12	OPEN OPEN PASSIVE	N/A N/A		
3 1 5254	7	12SW72	SW	12 CFCU SW OUTLET VA	205242, SHT 6	IPA 1 078 Mech Pen Area	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV626

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3 1 5343	7	12SW92	SW	CH CNDSR SW CONT V	205242, SHT. 5	IPA 1 100 CH Wtr Pmp Area	S	CLOSED/OPEN OPEN ACTIVE	N/A N/A		1SV594
3 1 5378	7	12SW93	SW	12 CH CNDSR SW RECIRC V	205242, SHT. 5	IPA 1 100 CH Wtr Pmp Area	S CONT ROLL	OPEN OPEN/CLOSED ACTIVE	N/A N/A		1DP9284
1 9044	20	131-1	EP	1 REACTOR PROT SOLID STATE PROT TRAIN A OUTPUT TEST PANEL 131		Aux 1 122 1 Control Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9045	20	132-1	EP	1 REACTOR PROT SOLID STATE PROT OUTPUT TEST CAB NO. 132		Aux 1 122 1 Control Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 1 4020	7	13AF11	AF	AUX FEED - S/G LEVEL CONTROL V	205236	Aux 1 084 13 Aux Fd Pmp Rm	N/A	OPEN OPEN PASSIVE	N/A N/A		1FA3966
2 1 4008	7	13AF21	AF	AUX FEED - S/G LEVEL CONTROL V	205236	Aux 1 084 12 Aux Fd Pmp Rm	S	CLOSED OPEN ACTIVE	N/A N/A		1FA3957
3 1 4016	I	13BF22	AF	13 SG FW STOP CHECK ISO VALVE (MOV)	205202, SHT. 3	IPA 1 100 MS Pen Area	N/A	CLOSED CLOSED PASSIVE	N/A N/A		
3 1 4510	7	13GB3	GB	13 S/G BLOWDOWN OUTLET HDR GATE VLV	205225, SHT. 1	Cntmnt 1 078 Cor at Elevator	N/A 19	OPEN OPEN/CLOSED ACTIVE	N/A N/A	N/A	N/A

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3 1 4508	7	13GB4	GB	13 S/G BLOWDOWN ISO VLV	205225, SHT. 2	IPA 1 078 Mech Pen Area	S	OPEN CLOSED ACTIVE	N/A N/A		1SV708
2 1 4112	7	13MS10	MS	MS PWR RELIEF V	205203, SHT. 1	IPA 1 100 MS Pen Area	S	CLOSED OPEN ACTIVE	N/A N/A		
2OP 1 4111A	7	13MS11	MS	MS SAFETY VLV	205203, SHT. 1	IPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
2OP 1 4111B	7	13MS12	MS	MS SAFETY VLV	205203, SHT. 1	IPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
2OP 1 4111C	7	13MS13	MS	MS SAFETY VLV	205203, SHT. 1	IPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
2OP 1 4111D	7	13MS14	MS	MS SAFETY VLV	205203, SHT. 1	IPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
2OP 1 4111E	7	13MS15	MS	MS SAFETY VLV	205203, SHT. 1	IPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
2 1 4113	7	13MS167	MS	MS ISOL V	205203, SHT. 1	IPA 1 100 MS Pen Area	S	OPEN CLOSED ACTIVE	N/A N/A		

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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2	7	13MS169	MS	MS INLET V 3-WAY MOV AIR OPRD STM ASSIST VLV	205203, SHT. 1	IPA 1	S	CLOSED	N/A		1SV270
1						100		OPEN	N/A		
4115						MS Pen Area		ACTIVE			
2	7	13MS171	MS	MS INLET V 3-WAY MOV AIR OPRD STM ASSIST VLV	205203, SHT. 1	IPA 1	S	CLOSED	N/A		1SV271
1						100		OPEN	N/A		
4117						MS Pen Area		ACTIVE			
1	I	13MS18	MS	MS STOP BYP V	205203, SHT. 1	IPA 1	N/A	CLOSED	N/A		1SV585
1						100		CLOSED	N/A		
4119						MS Pen Area		PASSIVE			
3	I	13SJ156	SJ	NO. 13 HOT LEG INJECTION LINE CHECK VALVE	205234, SHT. 3	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3119						NR		PASSIVE			
3	I	13SJ17	SJ	BORON INJECTION LINE CHECK VLV	205234, SHT. 1	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3115 4421						NR		PASSIVE			
1	8	13SJ54	SJ	ACCUM OUTLET VALVE	205234, SHT. 4	Cntmnt 1	SR	OPEN	I1108 (2D)		N/A
1						078	10	OPEN/CLOSED	1CDE		
2158						13 Accumulator		ACTIVE			
3	I	13SJ56	SJ	NO. 13 COLD LEG INJECTION LINE CHECK VALVE	205234, SHT. 4	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3111						NR		PASSIVE			
3	8	13SW20	SW	TG HDR SUP MOV	205242, SHT. 2	Yard	SR	OPEN	I1101 (1H)		
1						100		CLOSED	1ADE		
5310						Srvc Wtr Bldg		ACTIVE			

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	7	13SW223	SW	13 FCU SW OUTLET V PNL700-1R	205242, SHT 6	IPA 1	N/A	OPEN	N/A		1SV1475
1						078		OPEN	N/A		
5269						SW Piping Rm (2)		PASSIVE			
2	7	13SW24	SW	SW STR B/D CONT V	205242, SHT. 1	Yard	S	OPEN/CLOSED	N/A		1SV261
1						100		OPEN/CLOSED	N/A		
5212						Srvc Wtr Bldg		ACTIVE			
2	R	13SW25	SW	13 SW STR B/D OUTLET V	205242, SHT. 1	Yard	N/A	OPEN	N/A		
1						100		CLOSED	N/A		
5214						Srvc Wtr Bldg		ACTIVE			
3	7	13SW39	SW	1C DG SW INLET TO COOLER	205242, SHT. 3	Aux 1	S	CLOSED	N/A		1SV592
1						100		OPEN	N/A		
5224						1C D/G Rm		ACTIVE			
3	7	13SW40	SW	1C D/G CLG SW DRN V	205242, SHT. 3	Aux 1	N/A	OPEN	N/A		1SV592
1						100	20	CLOSED	N/A		
5228						1C D/G Rm		ACTIVE			
3	7	13SW42	SW	"1C" DG CLG SW TH PNL 740-1BB	205242, SHT. 3	Aux 1	S	OPEN/CLOSED	N/A		
1						100		OPEN	N/A		
5231						1C D/G Rm		ACTIVE			
3	7	13SW57	SW	CONT FAN COIL UNIT SW ISOL	205242, SHT 6	IPA 1	N/A	OPEN	N/A		1SV1117
1						078		OPEN	N/A		
5258						Mech Pen Area		PASSIVE			
3	7	13SW58	SW	13 FCU SW INLET V	205242, SHT 6	IPA 1	N/A	OPEN	N/A		1SV628
1						078		OPEN	N/A		
5260						Mech Pen Area		PASSIVE			

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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	7	13SW65	SW	13 FCU SW THROT V	205242, SHT. 6	Cntmnt 1	N/A	OPEN	N/A		
1						100	12	OPEN	N/A		
5265						MS Pen Area		PASSIVE			
3	7	13SW72	SW	13 FCU SW OUTLET V	205242, SHT 6	IPA 1	N/A	OPEN	N/A		1SV629
1						078		OPEN	N/A		
5267						Mech Pen Area		PASSIVE			
3	7	13SW92	SW	CH CNDSR SW CONT V	205242, SHT. 5	IPA 1	S	CLOSED/OPEN	N/A		1SV595
1						100		OPEN	N/A		
5288						CH Wtr Pmp Area		ACTIVE			
3	7	13SW93	SW	CH CNDSR SW OUTLET VALVE	205242, SHT. 5	IPA 1	S	CLOSED/OPEN	N/A		1SV595
1						100		OPEN	N/A		
5290						CH Wtr Pmp Area		ACTIVE			
1	7	14AF11	AF	AUX FEED - S/G LEVEL CONTROL V	205236	Aux 1	N/A	OPEN	N/A		1FA3965
1						084		OPEN	N/A		
4019						13 Aux Fd Pmp Rm		PASSIVE			
2	7	14AF21	AF	AUX FEED - S/G LEVEL CONTROL V	205236	Aux 1	S	CLOSED	N/A		1FA3959
1						084		OPEN	N/A		
4010						11 Aux Fd Pmp Rm		ACTIVE			
3	1	14BF22	AF	14 SG FW STOP CHECK ISO VALVE (MOV)	205202, SHT. 3	OPA 1	N/A	CLOSED/OPEN	N/A		
1						100		CLOSED	N/A		
4011						MS Pen Area		PASSIVE			
3	7	14GB3	GB	14 S/G BLOWDOWN OUTLET HDR GATE VLV	205225, SHT. 1	Cntmnt 1	N/A	OPEN	N/A	N/A	N/A
1						078	19	OPEN/CLOSED	N/A		
4514						Cor at Elevator		ACTIVE			

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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3 1 4512	7	14GB4	GB	14 S/G BLOWDOWN ISO VLV	205225, SHT. 2	IPA 1 078 Mech Pen Area	S	OPEN CLOSED ACTIVE	N/A N/A		1SV709
1 1 4121	7	14MS10	MS	MS PWR RELIEF V	205203, SHT. 2	OPA 1 100 MS Pen Area	S	CLOSED OPEN ACTIVE	N/A N/A		
1OP 1 4120A	7	14MS11	MS	MS SAFETY VLV	205203, SHT. 2	OPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
1OP 1 4120B	7	14MS12	MS	MS SAFETY VLV	205203, SHT. 2	OPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
1OP 1 4120C	7	14MS13	MS	MS SAFETY VLV	205203, SHT. 2	OPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
1OP 1 4120D	7	14MS14	MS	MS SAFETY VLV	205203, SHT. 2	OPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
1OP 1 4120E	7	14MS15	MS	MS SAFETY VLV	205203, SHT. 2	OPA 1 100 MS Pen Area	S	OFF OFF/ON ACTIVE	N/A N/A		
1 1 4122	7	14MS167	MS	MS ISOL V	205203, SHT. 2	OPA 1 100 MS Pen Area	S	OPEN CLOSED ACTIVE	N/A N/A		

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1	7	14MS169	MS	MS INLET V 3-WAY MOV AIR OPRD STM ASSIST VLV	205203, SHT. 2	IPA 1	S	CLOSED	N/A		1SV284
1						100		OPEN	N/A		
4124						MS Pen Area		ACTIVE			
1	7	14MS171	MS	MS INLET V 3-WAY MOV AIR OPRD STM ASSIST VLV	205203, SHT. 2	IPA 1	S	CLOSED	N/A		1SV285
1						100		OPEN	N/A		
4126						MS Pen Area		ACTIVE			
1	I	14MS18	MS	MS STOP BYP V	205203, SHT. 2	OPA 1	N/A	CLOSED	N/A		1SV583
1						100		CLOSED	N/A		
4128						MS Pen Area		PASSIVE			
3	I	14SJ156	SJ	NO. 14 HOT LEG INJECTION LINE CHECK VLV	205234, SHT. 3	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3120						NR		PASSIVE			
3	I	14SJ17	SJ	BORON INJECTION LINE CHECK VLV	205234, SHT. 1	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3116 4410						NR		PASSIVE			
1	8	14SJ54	SJ	ACCUM OUTLET VALVE	205234, SHT. 4	Cntmnt 1	SR	OPEN	I1137 (3D)		N/A
1						078	10	OPEN/CLOSED	1DDE		
2159						14 Accumulator		ACTIVE			
3	I	14SJ56	SJ	NO. 14 COLD LEG INJECTION LINE CHECK VALVE	205234, SHT. 4	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3112						NR		PASSIVE			
3	8	14SW20	SW	NUC HDR SUP MOV	205242, SHT. 2	Yard	R	OPEN	NR		
1						100		OPEN	NR		
5311						Srvc Wtr Bldg		PASSIVE			

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John G. Connelly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3 1 5338	7	14SW223	SW	14 FCU SW OUTLET V PNL700-1S	205242, SHT. 6	IPA 1 078 SW Piping Rm (2)	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV1473
2 1 5297	7	14SW24	SW	SW STR B/D CONT V	205242, SHT. 2	Yard 100 Srvc Wtr Bldg	S	OPEN/CLOSED OPEN/CLOSED ACTIVE	N/A N/A		
2 1 5299	R	14SW25	SW	14 SW STR B/D OUTLET V	205242, SHT. 2	Yard 100 Srvc Wtr Bldg	N/A	OPEN CLOSED ACTIVE	N/A N/A		
3 1 5328	7	14SW57	SW	CONT FAN COIL UNIT SW ISOL	205242, SHT. 6	IPA 1 078 Mech Pen Area	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV1118
3 1 5330	7	14SW58	SW	14 FCU SW INLET V	205242, SHT. 6	IPA 1 078 Mech Pen Area	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV631
3 1 5334	7	14SW65	SW	14 FCU SW THROT V	205242, SHT. 6	Cntmnt 1 100 Stairway Area	N/A 12	OPEN OPEN PASSIVE	N/A N/A		
3 1 5336	7	14SW72	SW	14 FCU SW OUTLET V	205242, SHT. 6	IPA 1 078 Mech Pen Area	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV632
3 1 5326	7	15SW223	SW	15 FCU SW OUTLET V PNL700-1T	205242, SHT. 6	IPA 1 078 SW Piping Rm (2)	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV1477

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1	7	15SW24	SW	SW STR B/D CONT V	205242, SHT. 2	Yard	S	OPEN/CLOSED	N/A		1SV263
1						100		OPEN/CLOSED	N/A		
5302						Srvc Wtr Bldg		ACTIVE			
1	R	15SW25	SW	15 SW STR B/D OUTLET V	205242, SHT. 2	Yard	N/A	OPEN	N/A		
1						100		CLOSED	N/A		
5304						Srvc Wtr Bldg		ACTIVE			
3	7	15SW57	SW	CONT FAN COIL UNIT SW ISOL	205242, SHT. 6	IPA 1	N/A	OPEN	N/A		1SV1119
1						078		OPEN	N/A		
5316						Mech Pen Area		PASSIVE			
3	7	15SW58	SW	15 FCU SW INLET V	205242, SHT. 6	IPA 1	N/A	OPEN	N/A		1SV634
1						078		OPEN	N/A		
5318						Mech Pen Area		PASSIVE			
3	7	15SW65	SW	15 FCU SW THROT V	205242, SHT. 6	Cntmnt 1	N/A	OPEN	N/A		
1						100	12	OPEN	N/A		
5334						Elevator Passage Area		PASSIVE			
3	7	15SW72	SW	15 FCU SW OUTLET V	205242, SHT. 6	IPA 1	N/A	OPEN	N/A		1SV635
1						078		OPEN	N/A		
5324						Mech Pen Area		PASSIVE			
1	7	16SW24	SW	SW STR B/D CONT V	205242, SHT. 2	Yard	S	OPEN/CLOSED	N/A		1SV264
1						100		OPEN/CLOSED	N/A		
5308						Srvc Wtr Bldg		ACTIVE			
1	R	16SW25	SW	16 SW STR B/D OUTLET V	205242, SHT. 2	Yard	N/A	OPEN	N/A		
1						100		CLOSED	N/A		
5306						Srvc Wtr Bldg		ACTIVE			

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1 1 8067	14	1AADC	EP	125VDC DISTRIBUTION CABINET	203007	Aux 1 100 1 RELAY RM	S	ENERG ENERG ACTIVE	1SWGR1ADC N/A		
1 1 8017	14	1ADE	EP	NO 1A 28VDC CONTROL BUS	211357, SHT. 1	Aux 1 084 460/230V Vital 125/250DC Bat	S	ENERG ENERG ACTIVE	1SWGR1ADE		
3 1 4036	I	1AF51	AF	AF BU TIE TO ALT WT SUP V	205236	Aux 2 084 Cor Area btwn SWGR Rms	N/A 3	CLOSED OPEN ACTIVE	N/A N/A		
3 1 4001	21	1AFE1	AF	1 AUX FEED STORAGE TANK	205236	Yard 100 1 RWST Area	S	N/A N/A PASSIVE	N/A N/A		
2 1 4007	5	1AFE4	AF	11 AUX FEED PMP	205236	Aux 1 084 11 Aux Fd Pmp Rm	S	OFF/ON ON ACTIVE	N/A N/A		BKR-1A1D
2 1 4012	5	1AFE5	AF	12 AUX FEED PMP	205236	Aux 1 084 12 Aux Fd Pmp Rm	S	OFF/ON ON ACTIVE	N/A N/A		BKR-1B1D
1 1 4017	5	1AFE6	AF	13 AUX FEED PMP	205236	Aux 1 084 13 Aux Fd Pmp Rm	S	ON/OFF ON ACTIVE	N/A N/A		1MSE3
2 1 8068	14	1BBDC	EP	125VDC DISTRIBUTION CABINET	203007	Aux 1 100 1 RELAY RM	S	ENERG ENERG ACTIVE	1SWGR1BDC N/A		

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2	14	1BDE	EP	NO 1B 28VDC CONTROL BUS	211357, SHT. 1	Aux 1	S	ENERG	1SWGR1BDE		
1						100		ENERG			
8036						1 Relay Rm		ACTIVE			
3	21	1BRE16	CC	B. A. EVAP. CONDENSER	205231, SHT. 2	Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
5125						BA Evap Rm		PASSIVE			
3	21	1BRE17	CC	DISTILLATE COOLER	205231, SHT. 2	Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
5126						BA Evap Rm		PASSIVE			
3	21	1BRE18	CC	VENT CONDENSER	205231, SHT. 2	Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
5127						BA Evap Rm		PASSIVE			
1	16	1BTRY1A10Y	EP	NO 1A1 125VDC BATTERY CHARGER	203007	Aux 1	SR	ENERG	1SWGR1AY		
1						084		ENERG			
8013						460/230V Vital 125/250DC Bat		ACTIVE			
1	16	1BTRY1A12Y	EP	NO 1A1 28VDC BATTERY CHARGER	211357, SHT. 1	Aux 1	SR	ENERG	1SWGR1AY		
1						100		ENERG			
8016						1 Relay Rm		ACTIVE			
1	15	1BTRY1ADC	EP	NO 1A 125VDC BATTERY	203007	Aux 1	S	ENERG	1BTRY1A10Y		
1						100		ENERG			
8012						125 VDC Bat Rm		ACTIVE			
1	15	1BTRY1ADE	EP	NO 1A 28VDC BATTERY	211357, SHT. 1	Aux 1	S	ENERG	1BTRY1A12Y		
1						100		ENERG			
8015						125 VDC Bat Rm		ACTIVE			

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2	16	1BTRY1B10Y	EP	NO 1B1 125VDC BATTERY CHARGER	203007	Aux 1	SR	ENERG	1SWGR1BY		
1						084		ENERG			
8032						460/230V Vital 125/250DC Bat		ACTIVE			
2	16	1BTRY1B14Y	EP	NO 1B1 28VDC BATTERY CHARGER	211357, SHT. 1	Aux 1	SR	ENERG	1SWGR1BY		
1						100		ENERG			
8035						1 Relay Rm		ACTIVE			
2	15	1BTRY1BDC	EP	NO 1B 125VDC BATTERY	203007	Aux 1	S	ENERG	1BTRY1B10Y		
1						100		ENERG			
8031						1B 125V Bat Rm (South)		ACTIVE			
2	15	1BTRY1BDE	EP	NO 1B 28VDC BATTERY	211357, SHT. 1	Aux 1	S	ENERG	1BTRY1B14Y		
1						100		ENERG			
8034						1B 125V Bat Rm (South)		ACTIVE			
3	16	1BTRY1C12Y	EP	NO 1C1 125VDC BATTERY CHARGER	203007	Aux 1	SR	ENERG	1SWGR1CY		
1						084		ENERG			
8061						460/230V Vital 125/250DC Bat		ACTIVE			
3	15	1BTRY1CDC	EP	NO 1C 125VDC BATTERY	203007	Aux 1	S	ENERG	1SWGR1CDC		
1						064		ENERG			
8060						C Bat Rm; Vital Bus Area		ACTIVE			
1OP	21	1CA-EC-0398A	PR	AIR ACCUMULATOR FOR 1PR2	205201, SHT. 1	Cntmnt 1	S	N/A	N/A		1SV1199
1						130		N/A	N/A		
2010						1 Pzr Area		PASSIVE			
1	21	1CA-EC-0398B	PR	AIR ACCUMULATOR FOR 1PR1	205201, SHT. 1	Cntmnt 1	S	N/A	N/A		1SV1198
1						130		N/A	N/A		
2005						1 Pzr Area		PASSIVE			

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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1OP 1 2009	21	1CA-ED-0148A	PR	AIR ACCUMULATOR FOR 1PR2	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	S	N/A N/A PASSIVE	N/A N/A		1SV1199
1 1 2004	21	1CA-ED-0148B	PR	AIR ACCUMULATOR FOR 1PR1	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	S	N/A N/A PASSIVE	N/A N/A		1SV1198
1 1 5705	10	1CAA15-DMOP	VH	1 CONTRL AREA VENT EMER AIR COND SUP FAN 11 OUTLET DMOP	205248, SHT. 2	Aux 1 122 CR A/C Rm	S 15	CLOSED/OPEN OPEN ACTIVE	N/A N/A		1SV1043
1OP 1 5708	10	1CAA16-DMOP	VH	1 CONTRL AREA VENT EMER AIR COND SUP FAN 12 OUTLET DMOP	205248, SHT. 2	Aux 1 122 CR A/C Rm	S 15	CLOSED/OPEN OPEN ACTIVE	N/A N/A		1SV1044
1 1 5700	10	1CAA17-DMOP	VH	1 CONTRL AREA VENT EMER AIR FLTR INTK DMOP	205248, SHT. 2	Aux 1 122 CR A/C Rm	S	CLOSED OPEN ACTIVE	N/A N/A		1SV695
1 1 5712	I	1CAA21-DMOP	VH	1 CONTRL AREA VENT OFFICES SUP DMOP	205248, SHT. 2	Aux 1 122 Spare & Test Equip 1 CR	N/A	OPEN OPEN PASSIVE	N/A N/A		
3 1 5408	21	1CAE11	CH	1 ECAC INTER COOLER 1CAE5	205216, SHT. 3	IPA 1 100 CH Wtr Pmp Area	B	N/A N/A PASSIVE	N/A N/A		
3 1 5409	21	1CAE5	CH	1 ECAC LP & HP CYL COOLING	205216, SHT. 3	IPA 1 100 CH Wtr Pmp Area	S	N/A N/A PASSIVE	N/A N/A		

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3	21	1CAE6	CH	1 ECAC AFTERCOOLER	205216, SHT. 3	IPA 1	S	N/A	N/A		
1						100		N/A	N/A		
5410						CH Wtr Pmp Area		PASSIVE			
1	10	1CBV10-DMOP	VH	13 CONT VENT FAN COIL UNIT ACCIDENT FLOW DMOP	205238, SHT. 3	Cntmnt 1	B	CLOSED/OPEN	N/A		1SV922
1						130		OPEN	N/A		
5916				1VHE17		13 CFCU		ACTIVE			
1	10	1CBV11-DMOP	VH	12 CONT VENT FAN COIL UNIT NORMAL FLOW DMOP	205238, SHT. 2	Cntmnt 1	B	OPEN	N/A		1SV921
1						130		CLOSED	N/A		
5911A				1VHE16		12 CFCU		ACTIVE			
2	10	1CBV12-DMOP	VH	12 CONT VENT FAN COIL UNIT NORMAL FLOW DMOP	205238, SHT. 2	Cntmnt 1	B	OPEN	N/A		1SV921
1						130		CLOSED	N/A		
5911B				1VHE16		12 CFCU		ACTIVE			
1	10	1CBV13-DMOP	VH	12 CONT VENT FAN COIL UNIT ACCIDENT FLOW DMOP	205238, SHT. 2	Cntmnt 1	B	CLOSED/OPEN	N/A		1SV921
1						130		OPEN	N/A		
5911				1VHE16		12 CFCU		ACTIVE			
1	10	1CBV14-DMOP	VH	12 CONT VENT FAN COIL UNIT DMOP	205238, SHT. 2	Cntmnt 1	B	CLOSED/OPEN	N/A		1SV921
1						130		OPEN	N/A		
5912				1VHE16		12 CFCU		ACTIVE			
1	10	1CBV15-DMOP	VH	11 CONT VENT FAN COIL UNIT NORMAL FLOW DMOP	205238, SHT. 2	Cntmnt 1	B	OPEN	N/A		1SV920
1						130		CLOSED	N/A		
5907A				1VHE15		11 CFCU		ACTIVE			
2	10	1CBV16-DMOP	VH	11 CONT VENT FAN COIL UNIT NORMAL FLOW DMOP	205238, SHT. 2	Cntmnt 1	B	OPEN	N/A		1SV920
1						130		CLOSED	N/A		
5907B				1VHE15		11 CFCU		ACTIVE			

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1 1 5907	10	1CBV17-DMOP	VH	11 CONT VENT FAN COIL UNIT DMOP 1VHE15	205238, SHT. 2	Cntmnt 1 130 11 CFCU	B	CLOSED/OPEN OPEN ACTIVE	N/A N/A		1SV920
1 1 5906	10	1CBV18-DMOP	VH	11 CONT VENT FAN COIL UNIT ACCIDENT FLOW DMOP 1VHE15	205238, SHT. 2	Cntmnt 1 130 11 CFCU	B	CLOSED/OPEN OPEN ACTIVE	N/A N/A		1SV920
1 1 5902A	10	1CBV19-DMOP	VH	15 CONT VENT FAN COIL UNIT NORMAL FLOW DMOP 1VHE19	205238, SHT. 2	Cntmnt 1 130 15 CFCU	B	OPEN CLOSED ACTIVE	N/A N/A		1SV924
2 1 5902B	10	1CBV20-DMOP	VH	15 CONT VENT FAN COIL UNIT NORMAL FLOW DMOP 1VHE19	205238, SHT. 2	Cntmnt 1 130 15 CFCU	B	OPEN CLOSED ACTIVE	N/A N/A		1SV924
1 1 5902	10	1CBV21-DMOP	VH	15 CONT VENT FAN COIL UNIT DMOP 1VHE19	205238, SHT. 2	Cntmnt 1 130 15 CFCU	B	CLOSED OPEN ACTIVE	N/A N/A		1SV924
1 1 5901	10	1CBV22-DMOP	VH	15 CONT VENT FAN COIL UNIT ACCIDENT FLOW DMOP 1VHE19	205238, SHT. 2	Cntmnt 1 130 15 CFCU	B	CLOSED OPEN ACTIVE	N/A N/A		1SV924
2 1 5922A	10	1CBV3-DMOP	VH	14 CONT VENT FAN COIL UNIT NORMAL FLOW DMOP 1VHE18	205238, SHT. 3	Cntmnt 1 130 14 CFCU	B	OPEN CLOSED ACTIVE	N/A N/A		1SV923
2 1 5922B	10	1CBV4-DMOP	VH	14 CONT VENT FAN COIL UNIT NORMAL FLOW DMOP 1VHE18	205238, SHT. 3	Cntmnt 1 130 14 CFCU	B	OPEN CLOSED ACTIVE	N/A N/A		1SV923

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1	10	1CBV5-DMOP	VH	14 CONT VENT FAN COIL UNIT DMOP	205238, SHT. 3	Cntmnt 1	B	CLOSED	N/A		1SV923
1						130		OPEN	N/A		
5922				1VHE18		14 CFCU		ACTIVE			
1	10	1CBV6-DMOP	VH	14 CONT VENT FAN COIL UNIT ACCIDENT FLOW DMOP	205238, SHT. 3	Cntmnt 1	B	CLOSED	N/A		1SV923
1						130		OPEN	N/A		
5921				1VHE18		14 CFCU		ACTIVE			
1	10	1CBV7-DMOP	VH	13 CONT VENT FAN COIL UNIT NORMAL FLOW DMOP	205238, SHT. 3	Cntmnt 1	B	OPEN	N/A		1SV922
1						130		CLOSED	N/A		
5917A				1VHE17		13 CFCU		ACTIVE			
2	10	1CBV8-DMOP	VH	13 CONT VENT FAN COIL UNIT NORMAL FLOW DMOP	205238, SHT. 3	Cntmnt 1	B	OPEN	N/A		1SV922
1						130		CLOSED	N/A		
5917B				1VHE17		13 CFCU		ACTIVE			
1	10	1CBV9-DMOP	VH	13 CONT VENT FAN COIL UNIT DMOP	205238, SHT. 3	Cntmnt 1	B	CLOSED/OPEN	N/A		1SV922
1						130		OPEN	N/A		
5917				1VHE17		13 CFCU		ACTIVE			
3	20	1CC1	EP	1 REACTOR PROT CONTROL ROOM CONSOLE PANEL		Aux 1	S	N/A	N/A		
1						122		N/A	N/A		
9000						1 Control Rm		PASSIVE			
3	8	1CC117	CC	RCP CC CONTAINMENT ISO INLET MOV	205231, SHT. 3	IPA 1	R	OPEN	NR		
1						078		OPEN	NR		
5119						Mech Pen Area SG BD Hx		PASSIVE			
3	8	1CC118	CC	RCP CC CONTAINMENT ISO INLET MOV	205231, SHT. 3	IPA 1	R	OPEN	NR		
1						078		OPEN	NR		
5120						Mech Pen Area SG BD Hx		PASSIVE			

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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	8	1CC131	CC	RCP THERM BAR CC CONTAINMENT ISO MOV	205231, SHT. 3	IPA 1	R	OPEN	NR		
1						078		OPEN	NR		
5122						Mech Pen Area SG BD Hx		PASSIVE			
3	8	1CC17	CC	CC PMP SUCT X-OVER V	205231, SHT. 1	Aux 1	SR	OPEN/CLOSED	I1136 (5E)		
1						084		OPEN	1ADE		
5103						11 CC Pmp Rm		ACTIVE			
3	8	1CC18	CC	CC PUMP SUCTION X-OVER VLV	205231, SHT. 1	Aux 1	SR	OPEN/CLOSED	I1110 (6E)		
1						084		OPEN	1CDE		
5104						12 & 13 CC Pmp Rm		ACTIVE			
3	8	1CC190	CC	RCP THERM BAR CC CONTAINMENT ISO OUTLET MOV	205231, SHT. 3	Cntmnt 1	R	OPEN	NR		
1						078		OPEN	NR		
5121						14 Accum		PASSIVE			
1	I	1CC195	CC	CC M/U CHECK VALVE	205231, SHT. 1	Aux 1	N/A	N/A	N/A		
1						122		N/A	N/A		
5101						1 CC Surge Tk Area		PASSIVE			
3	20	1CC2	EP	1 REACTOR PROT CONTROL ROOM CONSOLE PANEL		Aux 1	S	N/A	N/A		
1						122		N/A	N/A		
9001						1 Control Rm		PASSIVE			
1	I	1CC210	CC	CC M/U CHECK VALVE	205231, SHT. 1	Aux 1	N/A	N/A	N/A		
1						122		N/A	N/A		
5102						1 CC Surge Tk Area		PASSIVE			
3	20	1CC3	EP	1 MN STM & TRB BYPASS CONTROL ROOM CONSOLE PANEL		Aux 1	S	N/A	N/A		
1						122		N/A	N/A		
9002						1 Control Rm		PASSIVE			

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3 1 5111	8	1CC30	CC	11 HX TO AUX CC HDR STOP V	205231, SHT. 1	Aux 1 084 SFP Pmp Rm	R	OPEN OPEN PASSIVE	NR NR		
3 1 5113	8	1CC31	CC	12 HX TO AUX CC HDR STOP VLV	205231, SHT. 1	Aux 1 084 SFP Pmp Rm	R	OPEN OPEN PASSIVE	NR NR		
3 1 8069	14	1CCDC	EP	125VDC DISTRIBUTION CABINET	203007	Aux 1 100 1 RELAY RM	S	ENERG ENERG ACTIVE	1SWGR1CDC N/A		
3 1 5100	21	1CCE1	CC	NO.1 CC SURGE TK	205231, SHT. 1	Aux 1 122 1 CC Surge Tk Area	S	OPERABLE OPERABLE PASSIVE	N/A N/A		
1 1 5105	5	1CCE2	CC	CC PMP NO. 11	205231, SHT. 1	Aux 1 084 11 CC Pmp Rm	S	ON/OFF ON/OFF ACTIVE	N/A N/A		BKR-1A10D
3OP 1 5106	5	1CCE3	CC	CC PMP NO. 13	205231, SHT. 1	Aux 1 084 12 & 13 CC Pmp Rm	S	ON/OFF ON/OFF ACTIVE	N/A N/A		BKR-1C10D
1 1 5107	5	1CCE4	CC	CC PMP NO. 12	205231, SHT. 1	Aux 1 084 12 & 13 CC Pmp Rm	S	ON/OFF ON/OFF ACTIVE	N/A N/A		BKR-1B10D
3 1 5110	21	1CCE5	CC	CC HX NO. 11	205231, SHT. 1	Aux 1 084 11 CC Pmp Rm	S	N/A N/A PASSIVE	N/A N/A	205242, SHT.3	

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3	21	1CCE6	CC	CC HX NO. 12A & B	205231, SHT. 1	Aux 1	S	N/A	N/A	205242, SHT. 4	
1						084		N/A	N/A		
5112						12 & 13 CC Pmp Rm		PASSIVE			
3	14	1CDE	EP	NO 1C 28VDC CONTROL BUS	211357, SHT. 1	Aux 1	S	ENERG	1SWGR1ADE		
1						084		ENERG			
8062						460/230V Vital 125/250DC Bat		ACTIVE			
3	7	1CH168	CH	EMER A/C COIL RET CONT V	205216, SHT. 1	Aux 1	S	CLOSED	N/A		1SV426
1						122		OPEN	N/A		
5427						CR A/C Rm		ACTIVE			
3	21	1CHE1	CH	1 CH WTR EXP TK	205216, SHT. 1	IPA 1	S	N/A	N/A		
1						100		N/A	N/A		
5400						CH Wtr Pmp Area		PASSIVE			
3	21	1CHE12	CH	1 EMERG AIR COND COIL	205216, SHT. 1	IPA 1	B	N/A	N/A		
1						100		N/A	N/A		
5419				1VHE315		CH Wtr Pmp Area		PASSIVE			
3	5	1CHE17	SW	11 CH CNDSR RECIRC PUMP	205242, SHT. 5	IPA 1	SR	ON/OFF	I1111 (2A)		
1						100		ON/OFF			
5380						CH Wtr Pmp Area		ACTIVE			
3	5	1CHE18	SW	12 CH CNDSR RECIRC PUMP	205242, SHT. 5	IPA 1	SR	ON/OFF	I1112 (2A)		
1						100		ON/OFF			
5381						CH Wtr Pmp Area		ACTIVE			
3	5	1CHE19	SW	13 CH CNDSR RECIRC PUMP	205242, SHT. 5	IPA 1	SR	ON/OFF	I1133 (3G)		
1						100		ON/OFF			
5382						CH Wtr Pmp Area		ACTIVE			

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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 1 5403	5	1CHE5	CH	11 CH WTR PMP	205216, SHT. 1	IPA 1 100 CH Wtr Pmp Area	SR	ON/OFF ON ACTIVE	I1111 (2H)		
2 1 5404	5	1CHE6	CH	12 CH WTR PMP	205216, SHT. 1	IPA 1 100 CH Wtr Pmp Area	SR	ON/OFF ON ACTIVE	I1112 (2H)		
1 1 5407	11	1CHE7	CH	11 CHILLER	205216, SHT. 1	IPA 1 100 CH Wtr Pmp Area	S	N/A N/A PASSIVE	N/A N/A		
1 1 5407A	12	1CHE7-COMP 1CHE7-MTRX	CH	11 CHILLER COMPRESSOR 1CHE7	205216, SHT. 8	IPA 1 100 CH Wtr Pmp Area	B	ON/OFF ON ACTIVE	N/A N/A		BKR-1A13X 1SV593
2 1 5406	11	1CHE8	CH	12 CHILLER	205216, SHT. 1	IPA 1 100 CH Wtr Pmp Area	S	N/A N/A PASSIVE	N/A N/A		
2 1 5406A	12	1CHE8-COMP 1CHE8-MTRX	CH	12 CHILLER COMPRESSOR 1CHE8	205216, SHT. 8	IPA 1 100 CH Wtr Pmp Area	B	ON/OFF ON ACTIVE	N/A N/A		BKR-1B13X 1SV594
3OP 1 5405	11	1CHE9	CH	13 CHILLER	205216, SHT. 1	IPA 1 100 CH Wtr Pmp Area	S	N/A N/A PASSIVE	N/A N/A		
3OP 1 5405A	12	1CHE9-COMP 1CHE9-MTRX	CH	13 CHILLER COMPRESSOR 1CHE9	205216, SHT. 8	IPA 1 100 CH Wtr Pmp Area	B	ON/OFF ON ACTIVE	N/A N/A		BKR-1C13X

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3	I	1CS31	CV	RWST TO EDUCTORS STOP V	205235	Aux 1	N/A	CLOSED	N/A		
1						084	1	CLOSED	N/A		
3006 1106 2108						1 Spray Additive Tk Rm		PASSIVE			
3	I	1CS35	CV	CS PMP FLOW TEST STOP V	205235	Aux 1	N/A	CLOSED	N/A		
1						084	1	CLOSED	N/A		
3044 1144 2146						1 Spray Additive Tk Rm		PASSIVE			
3	5	1CSE1	CV	CONTAINMENT SPRAY PUMP, NO. 11	205235	Aux 1	S	OFF	NR		
1						084	7	OFF	NR		
1105A 2107A 3005A						11 Cont Spray Pmp Rm		PASSIVE			
3	5	1CSE2	CV	CONTAINMENT SPRAY PUMP, NO. 12	205235	Aux 1	S	OFF	NR		
1						084	7	OFF	NR		
1105B 2107B 3005B						11 Cont Spray Pmp Rm		PASSIVE			
3	7	1CV114	RCS	RCP SEAL WTR BYP STOP V	205228, SHT. 3	Cntmnt 1	S	OPEN	N/A	N/A	1SV442
1						078	16	CLOSED	N/A		
3128						Cor at Elevator		ACTIVE			
3	8	1CV116	CV	RCP SEAL WTR RET HDR STOP MOV	205228, SHT. 2	IPA 1	R	OPEN	NR		
1						078	1	OPEN	NR		
3042 1142 2144						Mech Pen Area SG BD Hx		PASSIVE			
2	I	1CV130	CV	RCP SEAL WTR TO VCT V	205228, SHT. 2	Aux 1	N/A	OPEN	N/A		
1						084	2	CLOSED	N/A		
3035 1135 2137						Seal Wtr Hx Vlv Rm		ACTIVE			
2	8	1CV139	CV	CHG PMPS RECIRC STOP MOV	205228, SHT. 2	Aux 1	R	OPEN	NR		
1						084	2	OPEN	NR		
3032 1132 2134						Seal Wtr Hx Vlv Rm		PASSIVE			

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SALEM GENERATING STATION - UNIT 1
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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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2	8	1CV140	CV	CHG PMPS RECIRC STOP MOV	205228, SHT. 2	Aux 1	R	OPEN	NR		
1						084	2	OPEN	NR		
3033 1133 2135						Seal Wtr Hx Vlv Rm		PASSIVE			
3	I	1CV174	CV	BA BLENDER BYP V	205228, SHT. 1	Aux 1	N/A	CLOSED	N/A		
1						100	1	CLOSED	N/A		
3022 1122 2124						Rm By BA XF Pmps		PASSIVE			
3	I	1CV184	CV	BA BLENDER - RWST V	205228, SHT. 1	Aux 1	N/A	CLOSED	N/A		
1						100	1	CLOSED	N/A		
3050 1150 2152						BA XF Pmps Area		PASSIVE			
2	I	1CV197	CV	SEAL WTR HX TO CHG PMP SUCT	205228, SHT. 1	Aux 1	N/A	CLOSED	N/A		
1						100	2	OPEN	N/A		
3036 1136 2138						Rm By BA XF Pmps		ACTIVE			
1	7	1CV2	CV	LETDOWN LINE ISOLATION VALVE	205228, SHT. 2	Cntmnt 1	S	OPEN	N/A	N/A	1SV489
1						078		CLOSED	N/A		
3125						Regen Hx Rm		ACTIVE			
3	I	1CV273	CV	NO. 13 LOOP CHARGING PATH CHECK VALVE	205228, SHT. 2	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3124						NR		PASSIVE			
2	7	1CV277	CV	LTDWN LINE ISOL VALVE	205228, SHT. 2	Cntmnt 1	S	OPEN	N/A	N/A	1SV490
1						078		CLOSED	N/A		
3126						Regen Hx Rm		ACTIVE			
1	7	1CV278	CV	EX LTDWD HX INLET V	205228, SHT. 2	Cntmnt 1	N/A	CLOSED	N/A	N/A	1SV500
1						078		CLOSED	N/A		
3122 4425						13 Accum		PASSIVE			

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3	8	1CV284	CV	RCP SEAL WTR RET HDR STOP MOV	205228, SHT. 3	Cntmnt 1	R	OPEN	NR		
1						078	1	OPEN	NR		
3041 1141 2143						Cor at Elevator		PASSIVE			
1	8	1CV40	CV	VCT OUTLET STOP MOV	205228, SHT. 1	Aux 1	SR	OPEN	I1110 (4A)		
1						100	1	CLOSED	1CDE		
3023 1123 2125						Rm By BA XF Pmps		ACTIVE			
2	8	1CV41	CV	VCT OUTLET STOP MOV	205228, SHT. 1	Aux 1	SR	OPEN	I1109 (7A)		
1						100	2	CLOSED	1BDE		
3024 1124 2126						Rm By BA XF Pmps		ACTIVE			
2	7	1CV55	CV	CENT CHG PMP FLOW CONT V	205228, SHT. 2	Aux 1	S	OPEN/CLOSED	N/A		1FD5317
1						084	2	OPEN	N/A		
3037 1137 2139						Chrg Pmp Vlv Alley		ACTIVE			
2	18	1CV55-CONV	CV	E/P CONVERTER FOR 1CV55	205228, SHT. 2	Aux 1	B	OPERABLE	N/A		1FD5316
1						084	4	OPERABLE	N/A		
1137B 2139B 3037B				216-1		Chrg Pmp Vlv Alley		ACTIVE			
1	8	1CV68	CV	CHG HDR STOP MOV	205228, SHT. 2	IPA 1	SR	OPEN	I1109 (5E)		
1						078	1	CLOSED	1BDE		
3039 1139 2141						Mech Pen Area SG BD Hx		ACTIVE			
2	8	1CV69	CV	CHG HDR STOP MOV	205228, SHT. 2	IPA 1	SR	OPEN	I1108 (4A)		
1						078	2	CLOSED	1CDE		
3040 1140 2142						Mech Pen Area SG BD Hx		ACTIVE			
3	I	1CV76	CV	AUXILIARY SPRAY LINE CHECK VALVE	205228, SHT. 2	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3106						NR		PASSIVE			

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3	I	1CV78	CV	NO. 13 LOOP CHARGING PATH CHECK VALVE	205228, SHT. 2	NR	N/A	OPEN	N/A		
1						NR		OPEN	N/A		
3123 4422						NR		PASSIVE			
3	I	1CV80	CV	NO. 14 LOOP CHG. LINE CHECK VLV	205228, SHT. 2	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
3127 4409						NR		PASSIVE			
3	21	1CVE10	CC	SEAL WATER HX	205231, SHT. 2	Aux 1	S	N/A	N/A		
1						084		N/A	N/A		
5134						Seal Wtr Hx Rm		PASSIVE			
2	21	1CVE10	CV	SEAL WTR HX NO. 1	205228, SHT. 2	Aux 1	S	OPERABLE	N/A		
1						084	2	OPERABLE	N/A		
3034 1134 2136						Seal Wtr Hx Vlv Rm		PASSIVE			
3	21	1CVE17	CC	LETDOWN HX	205231, SHT. 2	Aux 1	S	N/A	N/A		
1						084		N/A	N/A		
5133						LTD Hx Rm		PASSIVE			
2	5	1CVE20	CV	11 CHG PMP, CENTRIFUGAL	205228, SHT. 2	Aux 1	S	OFF/ON	N/A		1CVE10, CCW BKR-1B9D
1						084	2	ON	N/A		
3031 1131 2133						11 Chrg Pmp Rm		ACTIVE			
2OP	5	1CVE21	CV	12 CHG PMP, CENTRIFUGAL	205228, SHT. 2	Aux 1	S	OFF/ON	N/A		1CVE10, CCW BKR-1C9D
1						084	2	ON	N/A		
3038 1138 2140						12 Chrg Pmp Rm		ACTIVE			
1	5	1CVE22	CV	CHARGING PUMP, RECIPROCATING	205228, SHT. 2	Aux 1	S	ON/OFF	N/A		BKR-1A7X
1						084	1	ON	N/A		
3026 1126 2128 5135						13 Chrg Pmp Rm		ACTIVE			

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3	21	1CVE23	CC	EXCESS LETDOWN HX	205231, SHT. 3	Cntmnt 1	S	N/A	N/A		
1						078		N/A	N/A		
5118						Regen Hx Rm		PASSIVE			
3	21	1CVE31	SW	11 CHRG PMP LO CLR	205242, SHT. 4	Aux 1	B	N/A	N/A		
1						084		N/A	N/A		
5357A				1CVE20		11 Chrg Pmp Rm		PASSIVE			
3	21	1CVE32	SW	12 CHG PMP LO CLR	205242, SHT. 3	Aux 1	B	N/A	N/A		
1						084		N/A	N/A		
5284A				1CVE21		12Chrg Pmp Rm		PASSIVE			
3	21	1CVE42	SW	12 CHG PMP GEAR OIL CLR	205242, SHT. 3	Aux 1	B	N/A	N/A		
1						084		N/A	N/A		
5284A				1CVE21		12Chrg Pmp Rm		PASSIVE			
3	21	1CVE43	SW	11 CHRG PMP GEAR OIL CLR	205242, SHT. 4	Aux 1	B	N/A	N/A		
1						084		N/A	N/A		
5357B				1CVE20		11 Chrg Pmp Rm		PASSIVE			
1	0	1CVE44	CV	SUCTION STABILIZER FOR 1CVE22	205228, SHT. 2	Aux 1	B	OPERABLE	N/A		
1						084	1	OPERABLE	N/A		
3025 1125 2127				1CVE22		13 Chrg Pmp Rm		ACTIVE			
1	0	1CVE45	CV	PULSATION DAMPENER	205228, SHT. 2	Aux 1	B	OPERABLE	N/A		
1						084	1	OPERABLE	N/A		
3027 1127 2129				1CVE22		13 Chrg Pmp Rm		ACTIVE			
1	7	1DA24A	DA	1A DG LUBE OIL TEMP REG VA	205241, SHT. 1	Aux 1	B	OPEN/CLOSED	N/A		
1						100		OPEN/CLOSED	N/A		
5032				1DAE4		1A D/G Rm		ACTIVE			

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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	7	1DA24B	DA	1B DG LUBE OIL TEMP REG VA	205241, SHT. 2	Aux 1	B	OPEN/CLOSED	N/A		
1						100		OPEN/CLOSED	N/A		
5056				1DAE23		1B D/G Rm		ACTIVE			
1	7	1DA24C	DA	1C DG LUBE OIL TEMP REG VA	205241, SHT. 3	Aux 1	B	OPEN/CLOSED	N/A		
1						100		OPEN/CLOSED	N/A		
5080				1DAE38		1C D/G Rm		ACTIVE			
1	I	1DA36A	DA	1A DG LUBE OIL HEATER DISCH.CHK VLV	205241, SHT. 1	Aux 1	N/A	N/A	N/A		
1						100		N/A	N/A		
5030						1A D/G Rm		PASSIVE			
1	I	1DA36B	DA	1B DG LUBE OIL HEATER DISCH.CHK VLV	205241, SHT. 2	Aux 1	N/A	N/A	N/A		
1						100		N/A	N/A		
5054						1B D/G Rm		PASSIVE			
1	I	1DA36C	DA	1C DG LUBE OIL HEATER DISCH.CHK VLV	205241, SHT. 3	Aux 1	N/A	N/A	N/A		
1						100		N/A	N/A		
5078						1C D/G Rm		PASSIVE			
1	7	1DA49A	DA	1A DG JKT WTR TEMP REG VA	205241, SHT. 1	Aux 1	B	OPEN/CLOSED	N/A		
1						100		OPEN/CLOSED	N/A		
5026				1DAE4		1A D/G Rm		ACTIVE			
1	7	1DA49B	DA	1B DG JKT WTR TEMP REG VA	205241, SHT. 2	Aux 1	B	OPEN/CLOSED	N/A		
1						100		OPEN/CLOSED	N/A		
5050				1DAE23		1B D/G Rm		ACTIVE			
1	7	1DA49C	DA	1C DG JKT WTR TEMP REG VA	205241, SHT. 3	Aux 1	B	OPEN/CLOSED	N/A		
1						100		OPEN/CLOSED	N/A		
5074				1DAE38		1C D/G Rm		ACTIVE			

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Print or Type Name/Title	Signature	Date	Print or Type Name/Title	Signature	Date
John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 1 5033	21	1DAE1	DA	1A DG LUBE OIL CLR 1DAE4	205241, SHT. 1	Aux 1 100 1A D/G Rm	B	N/A N/A PASSIVE	N/A N/A	205242, SHT. 3	
1 1 5023	0	1DAE14	DA	EXHAUST SILENCER - 1A DIESEL	205241, SHT. 1	Aux 1 122 1A D/G Rm	S	N/A N/A PASSIVE	N/A N/A		
1 1 5024	0	1DAE15	DA	EXPANSION TANK - 1A DIESEL	205241, SHT. 1	Aux 1 122 1A D/G Rm	S	N/A N/A PASSIVE	N/A N/A		
1 1 5057	21	1DAE2	DA	1B DG LUBE OIL CLR 1DAE23	205241, SHT. 2	Aux 1 100 1B D/G Rm	B	N/A N/A PASSIVE	N/A N/A	205242, SHT. W	
2 1 8020	17	1DAE23	EP	NO. 1B DIESEL GENERATOR	203002	Aux 1 100 1B D/G Rm	SR	OFF ON ACTIVE	N/A 1SWGR1BDC 1BBDC 1BDE		
2 1 21	17	1DAE23-EXC	EP	NO. 1B DIESEL GENERATOR EXCITER 1DAE23	203002	Aux 1 100 1B D/G Rm	BR	OFF ON ACTIVE	1DAE23 1BBDC	203002	1DAE23
1 1 5047	0	1DAE24	DA	EXHAUST SILENCER - 1B DIESEL	205241, SHT. 2	Aux 1 122 12 D/G Exh Fan Rm/1B Day Tk	S	N/A N/A PASSIVE	N/A N/A		
1 1 5036	21	1DAE25	DA	12A DIESEL START AIR RCVR	205241, SHT. 2	Aux 1 100 1B D/G Rm	S	N/A N/A PASSIVE	N/A N/A		

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SALEM GENERATI STATION - UNIT 1
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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 1 5042	21	1DAE26	DA	12B DIESEL START AIR RCVR	205241, SHT. 2	Aux 1 100 1B D/G Rm	S	N/A N/A PASSIVE	N/A N/A		
1 1 5081	21	1DAE3	DA	1C DG LUBE OIL CLR 1DAE38	205241, SHT. 3	Aux 1 100 1C D/G Rm	B	N/A N/A PASSIVE	N/A N/A	205242, SHT. 3	
1 1 5048	21	1DAE33	DA	EXPANSION TANK - 1B DIESEL	205241, SHT. 2	Aux 1 122 1B D/G Rm	S	N/A N/A PASSIVE	N/A N/A		
3 1 8046	17	1DAE38	EP	NO. 1C DIESEL GENERATOR	203002	Aux 1 100 1C D/G Rm	SR	OFF ON ACTIVE	N/A 1SWGR1CDC 1CCDC 1CDE		
3 1 43	17	1DAE38-EXC	EP	NO. 1C DIESEL GENERATOR EXCITER 1DAE38	203002	Aux 1 100 1C D/G Rm	BR	OFF ON ACTIVE	1DAE38 1CCDC	203002	1DAE38
1 1 5060	21	1DAE39	DA	13A DIESEL START AIR RCVR	205241, SHT. 3	Aux 1 100 1C D/G Rm	S	N/A N/A PASSIVE	N/A N/A		
1 1 8000	17	1DAE4	EP	NO. 1A DIESEL GENERATOR	203002	Aux 1 100 1A D/G Rm	SR	OFF ON ACTIVE	N/A 1SWGR1ADC 1AADC 1ADE		
1 1 1	17	1DAE4-EXC	EP	NO. 1A DIESEL GENERATOR EXCITER 1DAE4	203002	Aux 1 100 1A D/G Rm	BR	OFF ON ACTIVE	1DAE4 1AADC	203002	1DAE4

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	21	1DAE40	DA	13B DIESEL START AIR RCVR	205241, SHT. 3	Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
5066						1C D/G Rm		PASSIVE			
1	0	1DAE47	DA	EXHAUST SILENCER - 1C DIESEL	205241, SHT. 3	Aux 1	S	N/A	N/A		
1						122		N/A	N/A		
5071						13 D/G Exhst Fan Rm/1C Day Tnk		PASSIVE			
1	21	1DAE48	DA	EXPANSION TANK - 1C DIESEL	205241, SHT. 3	Aux 1	S	N/A	N/A		
1						122		N/A	N/A		
5072						13 D/G Exhst Fan Rm/1C Day Tnk		PASSIVE			
1	21	1DAE5	DA	11A DIESEL START AIR RCVR	205241, SHT. 1	Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
5012						1A D/G Rm		PASSIVE			
1	21	1DAE58	DA	1A DG JKT WTR HX	205241, SHT. 1	Aux 1	B	N/A	N/A	205242, SHT. 3	
1						100		N/A	N/A		
5027				1DAE4		1A D/G Rm		PASSIVE			
1	21	1DAE59	DA	1B DG JKT WTR HX	205241, SHT. 2	Aux 1	B	N/A	N/A	205242, SHT. 3	
1						100		N/A	N/A		
5051				1DAE23		1B D/G Rm		PASSIVE			
1	21	1DAE6	DA	11B DIESEL START AIR RCVR	205241, SHT. 1	Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
5018						1A D/G Rm		PASSIVE			
1	21	1DAE60	DA	1C DG JKT WTR HX	205241, SHT. 3	Aux 1	B	N/A	N/A	205242, SHT. 3	
1						100		N/A	N/A		
5075				1DAE38		1C D/G Rm		PASSIVE			

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	21	1DAE61	DA	1A DG JET WTR AFTERCOOLER	205241, SHT. 1	Aux 1	B	N/A	N/A		
1						100		N/A	N/A		
5028				1DAE4		1A D/G Rm		PASSIVE			
1	5	1DAE62	DA	JACKET WATER PUMP - (ENGINE DRIVEN) 1A DIESEL	205241, SHT. 1	Aux 1	B	OFF	N/A		
1						100		ON	N/A		
5025				1DAE4		1A D/G Rm		ACTIVE			
1	21	1DAE63	DA	1A DG JET WTR AFTERCOOLER HEATER	205241, SHT. 1	Aux 1	B	N/A	N/A		
1						100		N/A	N/A		
5029				1DAE4		1A D/G Rm		PASSIVE			
1	0	1DAE65	DA	NO. 1 START AIR MOTOR - 1A DIESEL GEN	205241, SHT. 1	Aux 1	B	CLOSED	N/A		
1						100		OPEN	N/A		
5020				1DAE4		1A D/G Rm		ACTIVE			
1	0	1DAE66	DA	NO. 2 START AIR MOTOR - 1A DIESEL GEN	205241, SHT. 1	Aux 1	B	CLOSED	N/A		
1						100		OPEN	N/A		
5016				1DAE4		1A D/G Rm		ACTIVE			
1	0	1DAE67	DA	NO. 3 START AIR MOTOR - 1A DIESEL GEN	205241, SHT. 1	Aux 1	B	CLOSED	N/A		
1						100		OPEN	N/A		
5014				1DAE4		1A D/G Rm		ACTIVE			
1	0	1DAE68	DA	NO. 4 START AIR MOTOR - 1A DIESEL GEN	205241, SHT. 1	Aux 1	B	CLOSED	N/A		
1						100		OPEN	N/A		
5022				1DAE4		1A D/G Rm		ACTIVE			
1	0	1DAE69	DA	1A DG LUBE OIL FILTER	205241, SHT. 1	Aux 1	B	N/A	N/A		
1						100		N/A	N/A		
5031						1A D/G Rm		PASSIVE			

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	0	1DAE73	DA	1A DG LUBE OIL DUPLEX STRAINER	205241, SHT. 1	Aux 1	B	OPERABLE	N/A		
1						100		OPERABLE	N/A		
5034				1DAE4		1A D/G Rm		PASSIVE			
1	21	1DAE74	DA	1B DG JKT WTR AFTERCOOLER	205241, SHT. 2	Aux 1	B	N/A	N/A		
1						100		N/A	N/A		
5052				1DAE23		1B D/G Rm		PASSIVE			
1	5	1DAE75	DA	JACKET WATER PUMP (ENGINE DRIVEN) - 1B DIESEL	205241, SHT. 2	Aux 1	B	OFF	N/A		
1						100		ON	N/A		
5049				1DAE23		1B D/G Rm		ACTIVE			
1	21	1DAE76	DA	1B DG JKT WTR AFTERCOOLER HEATER	205241, SHT. 2	Aux 1	B	N/A	N/A		
1						100		N/A	N/A		
5053				1DAE23		1B D/G Rm		PASSIVE			
1	0	1DAE78	DA	NO. 1 START AIR MOTOR - 1B DIESEL GEN	205241, SHT. 2	Aux 1	B	CLOSED	N/A		
1						100		OPEN	N/A		
5044				1DAE23		1B D/G Rm		ACTIVE			
1	0	1DAE79	DA	NO. 2 START AIR MOTOR - 1B DIESEL GEN	205241, SHT. 2	Aux 1	B	CLOSED	N/A		
1						100		OPEN	N/A		
5040				1DAE23		1B D/G Rm		ACTIVE			
1	0	1DAE80	DA	NO. 3 START AIR MOTOR - 1B DIESEL GEN	205241, SHT. 2	Aux 1	B	CLOSED	N/A		
1						100		OPEN	N/A		
5038				1DAE23		1B D/G Rm		ACTIVE			
1	0	1DAE81	DA	NO. 4 START AIR MOTOR - 1B DIESEL GEN	205241, SHT. 2	Aux 1	B	CLOSED	N/A		
1						100		OPEN	N/A		
5046				1DAE23		1B D/G Rm		ACTIVE			

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	0	1DAE82	DA	1B DG LUBE OIL FILTER	205241, SHT. 2	Aux 1	B	N/A	N/A		
1						100		N/A	N/A		
5055				1DAE23		1B D/G Rm		PASSIVE			
1	0	1DAE86	DA	1B DG LUBE OIL DUPLEX STRAINER	205241, SHT. 2	Aux 1	B	N/A	N/A		
1						100		N/A	N/A		
5058				1DAE23		1B D/G Rm		PASSIVE			
1	21	1DAE87	DA	1C DG JKT WTR AFTERCOOLER	205241, SHT. 3	Aux 1	B	N/A	N/A		
1						100		N/A	N/A		
5076				1DAE38		1C D/G Rm		PASSIVE			
1	5	1DAE88	DA	JACKET WATER PUMP (ENGINE DRIVEN) - 1C DIESEL	205241, SHT. 3	Aux 1	B	OFF	N/A		
1						100		ON	N/A		
5073				1DAE38		1C D/G Rm		ACTIVE			
1	21	1DAE89	DA	1C DG JKT WTR HX AFTERCOOLER HEATER	205241, SHT. 3	Aux 1	B	N/A	N/A		
1						100		N/A	N/A		
5077				1DAE38		1C D/G Rm		PASSIVE			
1	0	1DAE91	DA	NO. 1 START AIR MOTOR - 1C DIESEL GEN	205241, SHT. 3	Aux 1	B	CLOSED	N/A		
1						100		OPEN	N/A		
5068				1DAE38		1C D/G Rm		ACTIVE			
1	0	1DAE92	DA	NO. 2 START AIR MOTOR - 1C DIESEL GEN	205241, SHT. 3	Aux 1	B	CLOSED	N/A		
1						100		OPEN	N/A		
5064				1DAE38		1C D/G Rm		ACTIVE			
1	0	1DAE93	DA	NO. 3 START AIR MOTOR - 1C DIESEL GEN	205241, SHT. 3	Aux 1	B	CLOSED	N/A		
1						100		OPEN	N/A		
5062				1DAE38		1C D/G Rm		ACTIVE			

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	0	1DAE94	DA	NO. 4 START AIR MOTOR - 1C DIESEL GEN	205241, SHT. 3	Aux 1	B	CLOSED	N/A		
1						100		OPEN	N/A		
5070				1DAE38		1C D/G Rm		ACTIVE			
1	0	1DAE95	DA	1C DG LUBE OIL FILTER	205241, SHT. 3	Aux 1	B	N/A	N/A		
1						100		N/A	N/A		
5079				1DAE38		1C D/G Rm		PASSIVE			
1	0	1DAE99	DA	1C DG LUBE OIL DUPLEX STRAINER	205241, SHT. 3	Aux 1	B	N/A	N/A		
1						100		N/A	N/A		
5082				1DAE38		1C D/G Rm		PASSIVE			
2	14	1DDC	EP	125VDC DISTRIBUTION CABINET	203007	Aux 1	S	ENERG	1SWGR1BDC		
1						084		ENERG	N/A		
8071						460/230V Vital 125/250DC Bat		ACTIVE			
2	14	1DDE	EP	NO 1D 28VDC CONTROL BUS	211357, SHT. 1	Aux 1	S	ENERG	1SWGR1BDE		
1						100		ENERG			
8037						1 Relay Rm		ACTIVE			
3	R	1DF35	DF	#11/12 DFO STOR TK-X-CONN V	205249, SHT. 2	Aux 1	N/A	CLOSED	N/A		
1						084	3	CLOSED/OPEN	N/A		
5002						11 D/F X Pmp Rm		ACTIVE			
1	21	1DFE1	DF	NO. 11 DIESEL FUEL OIL STORAGE TANK	205249, SHT. 2	Aux 1	S	N/A	N/A		
1						084		N/A	N/A		
5000						11 Diesel FOST Rm		PASSIVE			
2	5	1DFE10	DF	NO. 12 DIESEL FUEL OIL TRANSFER PUMP	205249, SHT. 2	Aux 1	SR	OFF	I1105 (2D)		
1						084		OFF/ON	1BBDC		
5004						12 D/F X Pmp Rm		ACTIVE	1AADC 1CCDC		

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2	21	1DFE2	DF	NO. 12 DIESEL FUEL OIL STORAGE TANK	205249, SHT. 2	Aux 1	S	N/A	N/A		
1						084		N/A	N/A		
5003						12 Diesel FOST Rm		PASSIVE			
3	21	1DFE3	DF	NO. 1A DIESEL FUEL OIL DAY TANK	205249, SHT. 2	Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
5005						1A D/G Rm		PASSIVE			
3	5	1DFE30	DF	1A FUEL OIL (ENGINE DRIVEN) BOOSTER PUMP	205249, SHT. 2	Aux 1	B	OFF	N/A		
1						100		ON	N/A		
5006				1DAE4		1A D/G Rm		ACTIVE			
3	5	1DFE31	DF	1B FUEL OIL (ENGINE DRIVEN) BOOSTER PUMP	205249, SHT. 2	Aux 1	B	OFF	N/A		
1						100		ON	N/A		
5008				1DAE23		1B D/G Rm		ACTIVE			
3	5	1DFE32	DF	1C FUEL OIL (ENGINE DRIVEN) BOOSTER PUMP	205249, SHT. 2	Aux 1	B	OFF	N/A		
1						100		ON	N/A		
5010				1DAE38		1C D/G Rm		ACTIVE			
3	21	1DFE4	DF	NO. 1B DIESEL FUEL OIL DAY TANK	205249, SHT. 2	Aux 1	S	N/A	N/A		
1						122		N/A	N/A		
5007						1B D/G Rm		PASSIVE			
3	21	1DFE5	DF	NO. 1C DIESEL FUEL OIL DAY TANK	205249, SHT. 2	Aux 1	S	N/A	N/A		
1						122		N/A	N/A		
5009						13 D/G Exhst Fan Rm/1C Day Tnk		PASSIVE			
1	5	1DFE9	DF	NO. 11 DIESEL FUEL OIL TRANSFER PUMP	205249, SHT. 2	Aux 1	SR	OFF	I1104 (2D)		
1						084		OFF/ON	1AADC		
5001						11 D/F X Pmp Rm		ACTIVE	1BBDC 1CCDE		

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	14	1DIS1A5YA	EP	NO 1A VITAL INSTRUMENT BUS (115V)	211370, SHT. 1	Aux 1	S	ENERG	1INV1A5YB		
1						100		ENERG			
8019						1 Relay Rm		ACTIVE			
2	14	1DIS1B11YA	EP	NO 1D VITAL INSTRUMENT BUS (115V)	211370, SHT. 1	Aux 1	S	ENERG	1INV1B11YB		
1						100		ENERG			
8042						1 Relay Rm		ACTIVE			
2	14	1DIS1B5YA	EP	NO 1B VITAL INSTRUMENT BUS (115V)	211370, SHT. 1	Aux 1	S	ENERG	1INV1B5YB		
1						100		ENERG			
8041						1 Relay Rm		ACTIVE			
3	14	1DIS1C5YA	EP	NO 1C VITAL INSTRUMENT BUS (115V)	211370, SHT. 1	Aux 1	S	ENERG	1INV1C5YB		
1						100		ENERG			
8064						1 Relay Rm		ACTIVE			
2	18	1FA3957	AF	CONTROLLER FOR 13AF21	205236	Aux 1	BR	OPERABLE	1DIS1A5YA		13AF21
1						084		OPERABLE	1ADE		
4043				205-1		12 Aux Fd Pmp Rm		ACTIVE			
2	18	1FA3959	AF	CONTROLLER FOR 14AF21	205236	Aux 1	BR	OPERABLE	1DIS1A5YA		14AF21
1						084		OPERABLE	1ADE		
4042				207-1		12 Aux Fd Pmp Rm		ACTIVE			
2	18	1FA3961	AF	CONTROLLER FOR 11AF21	205236	Aux 1	BR	OPERABLE	1DIS1B5YA		11AF21
1						084		OPERABLE	1BDE		
4041				207-1		12 Aux Fd Pmp Rm		ACTIVE			
2	18	1FA3963	AF	CONTROLLER FOR 12AF21	205236	Aux 1	BR	OPERABLE	1DIS1B5YA		12AF21
1						084		OPERABLE	1BDE		
4044				206-1		12 Aux Fd Pmp Rm		ACTIVE			

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3 1 4102B	18	1FA3964	MS	CONTROLLER FOR 1MS53 207-1	205203, SHT. 1	Aux 1 084 12 Aux Fd Pmp Rm	R	OPERABLE OPERABLE ACTIVE	1DIS1C5YA 1CDE		1MS53
1 1 4038	18	1FA3965	AF	CONTROLLER FOR 14AF11 207-1	205236	Aux 1 084 12 Aux Fd Pmp Rm	R	N/A N/A PASSIVE	NR NR		14AF11
1 1 4039	18	1FA3966	AF	CONTROLLER FOR 13AF11 207-1	205236	Aux 1 084 12 Aux Fd Pmp Rm	R	N/A N/A PASSIVE	NR NR		13AF11
1 1 4040	18	1FA3967	AF	CONTROLLER FOR 12AF11 207-1	205236	Aux 1 084 12 Aux Fd Pmp Rm	R	N/A N/A PASSIVE	NR NR		12AF11
1 1 4037	18	1FA3968	AF	CONTROLLER FOR 11AF11 207-1	205236	Aux 1 084 12 Aux Fd Pmp Rm	R	N/A N/A PASSIVE	NR NR		11AF11
2 1 1137C 2139C 3037C	18	1FD5317	CV	FLOW SIGNAL TO 1CV55-CONV 1CC2	205228, SHT. 2	Aux 1 122 1 Control Rm	BR 4	OPERABLE OPERABLE ACTIVE	1DDE		
2 1 1137A 2139A 3037A	18	1HC1286	CV	AIR BOOSTER FOR 1CV55 216-1	205228, SHT. 2	Aux 1 084 Chrg Pmp Vlv Alley	B 4	OPERABLE OPERABLE ACTIVE	N/A N/A	205685, SHT. 1 220008, SHT. 1	1CV55-CONV
1 1 8018	16	1INV1A5YB	EP	NO 1A VITAL INSTRUMENT INVERTER	211370, SHT. 1	Aux 1 100 1 Relay Rm	SR	ENERG ENERG ACTIVE	1SWGR1AY 1SWGR1ADC		

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2 1 8039	16	1INV1B11YB	EP	NO 1D VITAL INSTRUMENT INVERTER	211370, SHT. 1	Aux 1 100 1 Relay Rm	SR	ENERG ENERG ACTIVE	1SWGR1BY 1SWGR1BDC		
2 1 8038	16	1INV1B5YB	EP	NO 1B VITAL INSTRUMENT INVERTER	211370, SHT. 1	Aux 1 100 1 Relay Rm	SR	ENERG ENERG ACTIVE	1SWGR1BY 1SWGR1BDC		
3 1 8063	16	1INV1C5YB	EP	NO 1C VITAL INSTRUMENT INVERTER	211370, SHT. 1	Aux 1 100 1 Relay Rm	SR	ENERG ENERG ACTIVE	1SWGR1CY 1SWGR1CDC		
3 1 8040	16	1INV1C6YC	EP	NO 11 & 12 STATION ESSENTIAL CONTROL INVERTER	211370, SHT. 1	Aux 1 100 1 Relay Rm	SR	ENERG ENERG ACTIVE	1SWGR1CY 1SWGR1CDC		
1 1 4419	18	1IP5739	RH	CONTROLLER FOR 1PS1	205201, SHT. 1	NR NR NR	R	N/A N/A PASSIVE	NR NR		1PS1
1 1 4424	18	1IP5741	RH	CONTROLLER FOR 1PS3	205201, SHT. 1	NR NR NR	R	N/A N/A PASSIVE	NR NR		1PS3
1 1 4005	18	1LA2670	AF	1 AFST LEVEL TRANSMITTER	205236	Yard 100 1 RWST Area	N/A	OPERABLE OPERABLE ACTIVE	N/A N/A		1LA2705
1 1 4006	18	1LA2705	AF	1 AFST LEVEL INDICATOR	205236	Aux 1 122 1 Control Rm	R	OPERABLE OPERABLE ACTIVE	1DIS1C5YA 12 MAC		1LA2670

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1 1 3201	18	1LI459A	PS	PRESSURIZER LEVEL, CH. 1 1CC2	205201, SHT. 1	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1A5YA		1LT459
2 1 3203	18	1LI460A	PS	PRESSURIZER LEVEL, CH. 2 1CC2	205201, SHT. 1	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1B5YA		1LT460
2OP 1 3205	18	1LI461	PS	PRESSURIZER LEVEL, CH. 4 1CC2	205201, SHT. 1	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1C5YA		1LT461
2 1 4313	18	1LI517	BF	STM GEN 11 LEVEL INDICATOR (NR) 1CC2	205202, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1B11YA		1LT517
2OP 1 4321	18	1LI518	BF	STM GEN 11 LEVEL INDICATOR (NR) 1CC2	205202, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1C5YA		1LT518
2OP 1 4329	18	1LI519	BF	STM GEN 11 LEVEL INDICATOR (NR) 1CC2	205202, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1B5YA		1LT519
2 1 4315	18	1LI527	BF	STM GEN 12 LEVEL INDICATOR (NR) 1CC2	205202, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1B11YA		1LT527
2OP 1 4323	18	1LI528	BF	STM GEN 12 LEVEL INDICATOR (NR) 1CC2	205202, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1C5YA		1LT528

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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2OP 1 4331	18	1LI529	BF	STM GEN 12 LEVEL INDICATOR (NR) 1CC2	205202, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1A5YA		1LT529
1 1 4317	18	1LI537	BF	STM GEN 13 LEVEL INDICATOR (NR) 1CC2	205202, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1B11YA		1LT537
2OP 1 4325	18	1LI538	BF	STM GEN 13 LEVEL INDICATOR (NR) 1CC2	205202, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1C5YA		1LT538
1OP 1 4333	18	1LI539	BF	STM GEN 13 LEVEL INDICATOR (NR) 1CC2	205202, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1A5YA		1LT539
1 1 4319	18	1LI547	BF	STM GEN 14 LEVEL INDICATOR (NR) 1CC2	205202, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1B11YA		1LT547
1OP 1 4327	18	1LI548	BF	STM GEN 14 LEVEL INDICATOR (NR) 1CC2	205202, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1C5YA		1LT548
1OP 1 4335	18	1LI549	BF	STM GEN 14 LEVEL INDICATOR (NR) 1CC2	205202, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1B5YA		1LT549
1 1 5138	18	1LI628A	CC	LEVEL INDICATOR - NO. 1 CC SURGE TANK 1CC1	205231, SHT. 1	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1C5YA		1LT628A

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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2	18	1LI628C	CC	LEVEL INDICATOR - NO. 1 CC SURGE TANK	205231, SHT. 1	Aux 1	BR	OPERABLE		1DIS1B11YA	1LT628B
1						122		OPERABLE			
5140				1CC1		1 Control Rm		ACTIVE			
1	18	1LI920	CV	RWST LEVEL INDICATOR	205234, SHT. 1	Aux 1	BR	OPERABLE	1DIS1B11YA		1LT920
1						122	1	OPERABLE			
3002 1102 2104				1CC1		1 Control Rm		ACTIVE			
2	18	1LI921	CV	RWST LEVEL INDICATOR	205234, SHT. 1	Aux 1	BR	OPERABLE	1DIS1B5YA		1LT921
1						122	2	OPERABLE			
3004 1104 2106				1CC1		1 Control Rm		ACTIVE			
2	0	1LL6229	CH	SIGHT GLASS - 1 CH WTR EXP TK	205216, SHT. 1	IPA 1	B	OPERABLE	N/A		NONE
1						100		OPERABLE	N/A		
5400A				1CHE1		CH Wtr Pmp Area		ACTIVE			
1	18	1LT459	PS	LEVEL TRANSMITTER FOR LI459C	205201, SHT. 1	Cntmnt 1	B	OPERABLE	N/A	N/A	
1						100		OPERABLE	N/A		NONE
3202				335-1		Elevator Passage Area		ACTIVE			
2	18	1LT460	PS	LEVEL TRANSMITTER FOR LI460A	205201, SHT. 1	Cntmnt 1	B	OPERABLE	N/A		
1						100		OPERABLE	N/A		
3204				335-1		Elevator Passage Area		ACTIVE			
2OP	18	1LT461	PS	LEVEL TRANSMITTER FOR LI461	205201, SHT. 1	Cntmnt 1	B	OPERABLE	N/A		
1						100		OPERABLE	N/A		
3206				335-1		Elevator Passage Area		ACTIVE			
2	18	1LT517	BF	LEVEL TRANSMITTER FOR LI517	205202, SHT. 3	Cntmnt 1	B	OPERABLE	N/A		
1						130		OPERABLE	N/A		
4314				444-1A		11 S/G Area		ACTIVE			

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SALEM GENERATING STATION - UNIT 1
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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2OP	18	1LT518	BF	LEVEL TRANSMITTER FOR LI518	205202, SHT. 3	Cntmnt 1	B	OPERABLE	N/A		
1						130		OPERABLE	N/A		
4322				444-1B		11 S/G Area		ACTIVE			
2OP	18	1LT519	BF	LEVEL TRANSMITTER FOR LI519	205202, SHT. 3	Cntmnt 1	B	OPERABLE	N/A		
1						130		OPERABLE	N/A		
4330				444-1C		11 S/G Area		ACTIVE			
2	18	1LT527	BF	LEVEL TRANSMITTER FOR LI527	205202, SHT. 3	Cntmnt 1	B	OPERABLE	N/A		
1						130		OPERABLE	N/A		
4316				444-1F		12 S/G Area		ACTIVE			
2OP	18	1LT528	BF	LEVEL TRANSMITTER FOR LI528	205202, SHT. 3	Cntmnt 1	B	OPERABLE	N/A		
1						130		OPERABLE	N/A		
4324				444-1E		12 S/G Area		ACTIVE			
2OP	18	1LT529	BF	LEVEL TRANSMITTER FOR LI529	205202, SHT. 3	Cntmnt 1	B	OPERABLE	N/A		
1						130		OPERABLE	N/A		
4332				444-1D		12 S/G Area		ACTIVE			
1	18	1LT537	BF	LEVEL TRANSMITTER FOR LI537	205202, SHT. 3	Cntmnt 1	B	OPERABLE	N/A		
1						130		OPERABLE	N/A		
4318				444-1G		13 S/G Area		ACTIVE			
2OP	18	1LT538	BF	LEVEL TRANSMITTER FOR LI538	205202, SHT. 3	Cntmnt 1	B	OPERABLE	N/A		
1						130		OPERABLE	N/A		
4326				444-1H		13 S/G Area		ACTIVE			
1OP	18	1LT539	BF	LEVEL TRANSMITTER FOR LI539	205202, SHT. 3	Cntmnt 1	B	OPERABLE	N/A		
1						130		OPERABLE	N/A		
4334				444-1J		13 S/G Area		ACTIVE			

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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	18	1LT547	BF	LEVEL TRANSMITTER FOR LI547	205202, SHT. 3	Cntmnt 1	B	OPERABLE	N/A		
1						130		OPERABLE	N/A		
4320				444-1M		14 S/G Area		ACTIVE			
1OP	18	1LT548	BF	LEVEL TRANSMITTER FOR LI548	205202, SHT. 3	Cntmnt 1	B	OPERABLE	N/A		
1						130		OPERABLE	N/A		
4328				444-1L		14 S/G Area		ACTIVE			
1OP	18	1LT549	BF	LEVEL TRANSMITTER FOR LI549	205202, SHT. 3	Cntmnt 1	B	OPERABLE	N/A		
1						130		OPERABLE	N/A		
4336				444-1K		14 S/G Area		ACTIVE			
1	18	1LT628A	CC	LEVEL TRANSMITTER NO. 1 CC SURGE TANK	205231, SHT. 1	Aux 1	B	OPERABLE	N/A		
1						122		OPERABLE	N/A		
5139				401-1		1 CC Surge Tnk Area		ACTIVE			
2	18	1LT628B	CC	LEVEL TRANSMITTER NO. 1 CC SURGE TANK	205231, SHT. 1	Aux 1	B	OPERABLE	N/A		
1						122		OPERABLE	N/A		
5141				401-1		1 CC Surge Tnk Area		ACTIVE			
1	18	1LT920	CV	LEVEL TRANSMITTER FOR LI920	205234, SHT. 1	Yard	B	OPERABLE	N/A		
1						100	1	OPERABLE	N/A		
3003 1103 2105				378-1		Fire Pmp/Fresh Water House		ACTIVE			
2	18	1LT921	CV	LEVEL TRANSMITTER FOR LI921	205234, SHT. 1	Yard	B	OPERABLE	N/A		
1						100	2	OPERABLE	N/A		
3005 1105 2107				378-1		Fire Pmp/Fresh Water House		ACTIVE			
3	7	1MS132	MS	13 AF PMP START/STOP V	205203, SHT. 1	Aux 1	S	CLOSED	N/A		1SV509
1						084		OPEN	N/A		
4100						13 Aux Fd Pmp Rm		ACTIVE			

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3	8	1MS52	MS	13 AF PMP TURB TRIP VALVE (SV)	205203, SHT. 1	Aux 1	BR	OPEN/CLOSED	NR		
1						084		OPEN	NR		
4165				1AFE6		13 Aux Fd Pmp Rm		ACTIVE			
3	7	1MS53	MS	13 AF PMP TURB GOV	205203, SHT. 1	Aux 1	S	OPEN/CLOSED	N/A		1FA3964
1						084		OPEN/CLOSED	N/A		
4102						13 Aux Fd Pmp Rm		ACTIVE			
3	5	1MSE3	MS	13 AF PMP TURB	205203, SHT. 1	Aux 1	B	ON/OFF	N/A		
1						084		ON/OFF	N/A		
4102A				1AFE6		13 Aux Fd Pmp Rm		ACTIVE			
1	18	1PD9859	PR	PRESSURE SWITCH FOR 1SV1198	205201, SHT. 1	Cntmnt 1	S	N/A	N/A	211310	
1						130		N/A	N/A		
2105C						1 Pzr Area		ACTIVE			
1OP	18	1PD9860	PR	PRESSURE SWITCH FOR 1SV1199	205201, SHT. 1	Cntmnt 1	S	N/A	N/A	211310	
1						130		N/A	N/A		
2105D						1 Pzr Area		ACTIVE			
1	18	1PI455A	PS	PRESSURIZER PRESSURE, CH. 1	205201, SHT. 1	Aux 1	BR	OPERABLE	1DIS1A5YA		1PT455
1						122		OPERABLE			
2201				1CC2		1 Control Rm		ACTIVE			
2	18	1PI456	PS	PRESSURIZER PRESSURE, CH.2	205201, SHT. 1	Aux 1	BR	OPERABLE	1DIS1B5YA		1PT456
1						122		OPERABLE			
2203				1CC2		1 Control Rm		ACTIVE			
1OP	18	1PI457	PS	PRESSURIZER PRESSURE, CH. 3	205201, SHT. 1	Aux 1	BR	OPERABLE	1DIS1C5YA		1PT457
1						122		OPERABLE			
2205				1CC2		1 Control Rm		ACTIVE			

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2OP 1 2207	18	1PI474A	PS	PRESSURIZER PRESSURE, CH. 4 1CC2	205201, SHT. 1	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1B11YA		1PT474
1OP 1 4144	18	1PI514A	MS	PRESSURE INDICATOR, MS LOOP 11 1CC2	205203, SHT. 1	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1A5YA		1PT514
2 1 4146	18	1PI515A	MS	PRESSURE INDICATOR, MS LOOP 11 1CC2	205203, SHT. 1	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1B5YA		1PT515
1 1 4142	18	1PI516A	MS	PRESSURE INDICATOR, MS LOOP 11 1CC2	205203, SHT. 1	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1B11YA		1PT516
2OP 1 4162	18	1PI524A	MS	PRESSURE INDICATOR, MS LOOP 12 1CC2	205203, SHT. 2	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1A5YA		1PT524
2 1 4164	18	1PI525A	MS	PRESSURE INDICATOR, MS LOOP 12 1CC2	205203, SHT. 2	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1B5YA		1PT525
1 1 4160	18	1PI526A	MS	PRESSURE INDICATOR, MS LOOP 12 1CC2	205203, SHT. 2	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1C5YA		1PT526
1OP 1 4150	18	1PI534A	MS	PRESSURE INDICATOR, MS LOOP 13 1CC2	205203, SHT. 1	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1A5YA		1PT534

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2	18	1PI535A	MS	PRESSURE INDICATOR, MS LOOP 13	205203, SHT. 1	Aux 1	BR	OPERABLE	1DIS1B5YA		1PT535
1						122		OPERABLE			
4152				1CC2		1 Control Rm		ACTIVE			
1	18	1PI536A	MS	PRESSURE INDICATOR, MS LOOP 13	205203, SHT. 1	Aux 1	BR	OPERABLE	1DIS1C5YA		1PT536
1						122		OPERABLE			
4148				1CC2		1 Control Rm		ACTIVE			
1OP	18	1PI544A	MS	PRESSURE INDICATOR, MS LOOP 14	205203, SHT. 2	Aux 1	BR	OPERABLE	1DIS1A5YA		1PT544
1						122		OPERABLE			
4156				1CC2		1 Control Rm		ACTIVE			
2	18	1PI545A	MS	PRESSURE INDICATOR, MS LOOP 14	205203, SHT. 2	Aux 1	BR	OPERABLE	1DIS1B5YA		1PT545
1						122		OPERABLE			
4158				1CC2		1 Control Rm		ACTIVE			
1	18	1PI546A	MS	PRESSURE INDICATOR, MS LOOP 14	205203, SHT. 2	Aux 1	BR	OPERABLE	1DIS1B11YA		1PT546
1						122		OPERABLE			
4154				1CC2		1 Control Rm		ACTIVE			
1	20	1PNL11828	EP	1A D/G GENERATOR CONTROL PANEL		Aux 1	S	ENERG	N/A		
1		GCP-1A				100		ENERG	N/A		
9065						1A D/G Control Rm		ACTIVE			
1	20	1PNL11829	EP	1A D/G ENGINE CONTROL PANEL		Aux 1	S	ENERG	N/A		
1		ECP-1A				100		ENERG	N/A		
9062						1A D/G Control Rm		ACTIVE			
2	20	1PNL11830	EP	1B D/G GENERATOR CONTROL PANEL		Aux 1	S	ENERG	N/A		
1		GCP-1B				100		ENERG	N/A		
9066						1B D/G Control Rm		ACTIVE			

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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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2	20	1PNL11831	EP	1B D/G ENGINE CONTROL PANEL		Aux 1	S	ENERG	N/A		
1		ECP-1B				100		ENERG	N/A		
9063						1B D/G Control Rm		ACTIVE			
3	20	1PNL11832	EP	1C D/G GENERATOR CONTROL PANEL		Aux 1	S	ENERG	N/A		
1		GCP-1C				100		ENERG	N/A		
9067						1C D/G Control Rm		ACTIVE			
3	20	1PNL11833	EP	1C D/G ENGINE CONTROL PANEL		Aux 1	S	ENERG	N/A		
1		ECP-1C				100		ENERG	N/A		
9064						1C D/G Control Rm		ACTIVE			
	20	1PNL11834	EP	1A D/G 230V CONTROL CENTER AUX PANEL		Aux 1	S	ENERG	N/A		
1						100		ENERG	N/A		
9041						1A D/G Control Bldg		ACTIVE			
	20	1PNL11835	EP	1B D/G 230V CONTROL CENTER AUX PANEL		Aux 1	S	ENERG	N/A		
1						100		ENERG	N/A		
9042						1B D/G Control Bldg		ACTIVE			
	20	1PNL11836	EP	1C D/G 230V CONTROL CENTER AUX PANEL		Aux 1	S	ENERG	N/A		
1						100		ENERG	N/A		
9043						1C D/G Control Bldg		ACTIVE			
3	7	1PR1	PR	PZR PWR OP RELIEF V	205201, SHT. 1	Cntmnt 1	N/A	CLOSED	N/A		1SV759
1						130		CLOSED	N/A		
3104						1 Pzr Area		PASSIVE			
1	7	1PR1	PR	PZR PWR OP RELIEF V	205201, SHT. 1	Cntmnt 1	S	CLOSED	N/A		1SV759
1						130		OPEN/CLOSED	N/A		
2002 3104A						1 Pzr Area		ACTIVE			

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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2OP 1 2015	I	1PR10	PR	PZR SPRAY V LOOP SEAL DR V	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	N/A	CLOSED CLOSED PASSIVE	N/A N/A		
3 1 2022	7	1PR14	PR	PRT DRN V	205201, SHT. 1	Cntmnt 1 078 1 PRT Area	N/A	CLOSED CLOSED PASSIVE	N/A N/A		1SV424
3 1 3105	7	1PR2	PR	PZR PWR OP RELIEF V	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	N/A	CLOSED CLOSED PASSIVE	N/A N/A		1SV760
1OP 1 2007	7	1PR2	PR	PZR PWR OP RELIEF V	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	S	CLOSED OPEN/CLOSED ACTIVE	N/A N/A		1SV760
3 1 2017	I	1PR23	PR	PZR SPRAY V LOOP SEAL DR V PRT	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	N/A	CLOSED CLOSED PASSIVE	N/A N/A		
3 1 2018	I	1PR25	PR	CONT ISO CHK VLV, RV PATH TO PRT	205201, SHT. 1	NR NR NR	N/A	CLOSED CLOSED PASSIVE	N/A N/A		
3 1 3101	7	1PR3	PR	PRESSURIZER RELIEF VALVE	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	S	CLOSED CLOSED PASSIVE	N/A N/A		
2 1 2012	7	1PR3	PR	PRESSURIZER RELIEF VALVE	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	S	CLOSED OPEN/CLOSED ACTIVE	N/A N/A		

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3 1 2019	I	1PR30	PR	VLV STEM LEAKOFFS TO PRT CHK VLV	205201, SHT. 1	NR NR NR	N/A	CLOSED CLOSED PASSIVE	N/A N/A		
3 1 3102	7	1PR4	PR	PRESSURIZER RELIEF VALVE	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	S	CLOSED CLOSED PASSIVE	N/A N/A		
2OP 1 2014	7	1PR4	PR	PRESSURIZER RELIEF VALVE	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	S	CLOSED OPEN/CLOSED ACTIVE	N/A N/A		
3 1 3103	7	1PR5	PR	PRESSURIZER RELIEF VALVE	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	S	CLOSED CLOSED PASSIVE	N/A N/A		
2OP 1 2016	7	1PR5	PR	PRESSURIZER RELIEF VALVE	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	S	CLOSED OPEN/CLOSED ACTIVE	N/A N/A		
1 1 2001	8	1PR6	PR	PZR PWR OP RELIEF STOP MOV	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	SR 5	OPEN OPEN/CLOSED ACTIVE	I1107 (1H) 1ADE		
1OP 1 2006	8	1PR7	PR	PZR PWR OP RELIEF STOP MOV	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	SR 6	OPEN OPEN/CLOSED ACTIVE	I1137 (4E) 1BDE		
2 1 2011	I	1PR8	PR	PZR SPRAY V LOOP SEAL DR V	205201, SHT. 1	Cntmnt 1 130 1 Pzr Area	N/A	CLOSED CLOSED PASSIVE	N/A N/A		

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2OP	I	1PR9	PR	PZR SPRAY V LOOP SEAL DR V	205201, SHT. 1	Cntmnt 1	N/A	CLOSED	N/A		
1						130		CLOSED	N/A		
2013						1 Pzr Area		PASSIVE			
1	7	1PS1	RH	PZR SPRAY V	205201, SHT. 1	Cntmnt 1	N/A	CLOSED	N/A		1IP5739
1						130		CLOSED	N/A		
4418						1 Pzr Area		PASSIVE			
1	7	1PS3	RH	PZR SPRAY V	205201, SHT. 1	Cntmnt 1	N/A	CLOSED	N/A		1IP5741
1						130		CLOSED	N/A		
4423						1 Pzr Area		PASSIVE			
1	18	1PT455	PS	PRESSURE TRANSMITTER FOR PI455A	205201, SHT. 1	Cntmnt 1	B	OPERABLE	N/A		
1						100		OPERABLE	N/A		
2202				335-1		Elevator Passage Area		ACTIVE			
2	18	1PT456	PS	PRESSURE TRANSMITTER FOR PI456	205201, SHT. 1	Cntmnt 1	B	OPERABLE	N/A		
1						100		OPERABLE	N/A		NONE
2204				335-1		Elevator Passage Area		ACTIVE			
1OP	18	1PT457	PS	PRESSURE TRANSMITTER FOR PI457	205201, SHT.1	Cntmnt 1	B	OPERABLE	N/A		PI457
1						100		OPERABLE	N/A		
2206				335-1		Elevator Passage Area		ACTIVE			
2OP	18	1PT474	PS	PRESSURE TRANSMITTER FOR PI474A	205201, SHT. 1	Cntmnt 1	B	OPERABLE	N/A		PI474A
1						100		OPERABLE	N/A		
2208				335-1		Elevator Passage Area		ACTIVE			
1OP	18	1PT514	MS	PRESSURE TRANSMITTER, MS LOOP 11	205203, SHT. 1	IPA 1	B	OPERABLE	N/A		1PI514A
1						100		OPERABLE	N/A		
4143				685-1A		MS Pen Area		ACTIVE			

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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2	18	1PT515	MS	PRESSURE TRANSMITTER, MS LOOP 11	205203, SHT. 1	IPA 1	B	OPERABLE	N/A		1PI515A
1						100		OPERABLE	N/A		
4145				686-1A		MS Pen Area		ACTIVE			
1	18	1PT516	MS	PRESSURE TRANSMITTER, MS LOOP 11	205203, SHT. 1	IPA 1	B	OPERABLE	N/A		1PI516A
1						100		OPERABLE	N/A		
4141				684-1A		MS Pen Area		ACTIVE			
2OP	18	1PT524	MS	PRESSURE TRANSMITTER - MS LOOP 12	205203, SHT. 2	OPA 1	B	OPERABLE	N/A		1PI524A
1						100		OPERABLE	N/A		
4161				685-1B		MS Pen Area		ACTIVE			
2	18	1PT525	MS	PRESSURE TRANSMITTER - MS LOOP 12	205203, SHT. 2	OPA 1	B	OPERABLE	N/A		1PI525A
1						100		OPERABLE	N/A		
4163				686-1B		MS Pen Area		ACTIVE			
1	18	1PT526	MS	PRESSURE TRANSMITTER - MS LOOP 12	205203, SHT. 2	OPA 1	B	OPERABLE	N/A		1PI526A
1						100		OPERABLE	N/A		
4159				684-1B		MS Pen Area		ACTIVE			
1OP	18	1PT534	MS	PRESSURE TRANSMITTER, MS LOOP 13	205203, SHT. 1	IPA 1	B	OPERABLE	N/A		1PI534A
1						100		OPERABLE	N/A		
4149				685-1C		MS Pen Area		ACTIVE			
2	18	1PT535	MS	PRESSURE TRANSMITTER, MS LOOP 13	205203, SHT. 1	IPA 1	B	OPERABLE	N/A		1PI535A
1						100		OPERABLE	N/A		
4151				686-1C		MS Pen Area		ACTIVE			
1	18	1PT536	MS	PRESSURE TRANSMITTER, MS LOOP 13	205203, SHT. 1	IPA 1	B	OPERABLE	N/A		1PI536A
1						100		OPERABLE	N/A		
4147				684-1C		MS Pen Area		ACTIVE			

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1OP 1 4155	18	1PT544	MS	PRESSURE TRANSMITTER - MS LOOP 14 685-1D	205203, SHT. 2	OPA 1 100 MS Pen Area	B	OPERABLE OPERABLE ACTIVE	N/A N/A		1PI544A
2 1 4157	18	1PT545	MS	PRESSURE TRANSMITTER - MS LOOP 14 686-1D	205203, SHT. 2	OPA 1 100 MS Pen Area	B	OPERABLE OPERABLE ACTIVE	N/A N/A		1PI545A
1 1 4153	18	1PT546	MS	PRESSURE TRANSMITTER - MS LOOP 14 684-1D	205203, SHT. 2	OPA 1 100 MS Pen Area	B	OPERABLE OPERABLE ACTIVE	N/A N/A		1PI546A
1 9046	20	1R11	EP	1 4KV 1CDD, 11CSD & 12CSD BKR FAIL PROT RELAY RACK 1R11 PANEL		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9047	20	1R24	EP	1 4KV VITAL BUS 1BDD, 11BSD & 12BSD BKR FAIL PROT RELAY RACK		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9048	20	1R8	EP	1 4KV 1ADD, 11ASD & 12ASD BKR FAIL PROT RELAY RACK 1R8 (PANEL)		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
3 1 3107	8	1RC40	REACT OR	HEAD VENT SOLENOID VALVE	205201, SHT. 1	Cntmnt 1 130 13 S/G Area	R	CLOSED CLOSED PASSIVE	NR NR		
3 1 3108	8	1RC42	REACT OR	HEAD VENT SOLENOID VALVE	205201, SHT. 1	Cntmnt 1 130 13 S/G Area	R	CLOSED CLOSED PASSIVE	NR NR		

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1 1 2101	N/A	1RCE10-11 GROUP 11	RC	PZR HTRS, BACK-UP GROUP 1	203003	NR NR NR	N/A	OFF/ON ON/OFF ACTIVE	1SWGR1CX 1SWGR1CDC 1CDE		480V BUS EXT NO. 1C BKR-1C23X
1 1 2102	N/A	1RCE10-12 GROUP 12	RC	PZR HTRS, BACK-UP GROUP 2	203003	NR NR NR	N/A	OFF/ON ON/OFF ACTIVE	1SWGR1AX 1SWGR1ADC 1ADE		480V VITAL BUS 1A BKR-1A4X
3 1 2020	21	1RCE11	PR	PZR RELIEF TANK NO 1	205201, SHT. 1	Cntmnt 1 078 1 PRT Area	S	N/A N/A PASSIVE	N/A N/A		
3 1 3121	8	1RH1	RH	RHR COMMON SUCT MOV	205232, SHT. 2	Cntmnt 1 078 13 S/G, RCP & PZR Supports	R	CLOSED CLOSED PASSIVE	NR NR		
3 1 4400	8	1RH1	RH	RHR COMMON SUCT MOV	205232, SHT. 2	Cntmnt 1 078 13 S/G, RCP & PZR Supports	SR	CLOSED CLOSED/OPEN ACTIVE	I1137 (4A) 1BDE		
3 1 4401	8	1RH2	RH	RHR COMMON SUCT MOV	205232, SHT. 2	Cntmnt 1 078 Cor at Elevator	SR	CLOSED CLOSED/OPEN ACTIVE	I1107 (4A) 1ADE		
3 1 4417	8	1RH26	RH	HOT LEG ISOL MOV	205232, SHT. 1	Cntmnt 1 078 Cor at 13 Accumulator	R	CLOSED CLOSED PASSIVE	NR NR		
3 1 1119A 2121A 3019A	5	1RHE1	RH	11 RHR PMP	205232, SHT. 1	Aux 1 045 11 RHR Pmp Rm	S 7	OFF OFF PASSIVE	NR NR		

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1	5	1RHE1	RH	11 RHR PMP	205232, SHT. 1	Aux 1	S	OFF	N/A		BKR-1A7D
1						045		OFF/ON	N/A		
4412						11 RHR Pmp Rm		ACTIVE			
3	5	1RHE2	RH	12 RHR PMP	205232, SHT. 2	Aux 1	S	OFF	NR		
1						045	7	OFF	NR		
1119C 2121C 3019C						12 RHR Pmp Rm		PASSIVE			
2	5	1RHE2	RH	12 RHR PMP	205232, SHT. 2	Aux 1	S	OFF	N/A		BKR-1B7D
1						045		OFF/ON	N/A		
4403						12 RHR Pmp Rm		ACTIVE			
3	21	1RHE3	CC	NO. 11 RHR HX	205231, SHT. 1	Aux 1	S	N/A	N/A		
1						045		N/A	N/A		
5137						11 RHR Hx Rm		PASSIVE			
3	21	1RHE3	RH	11 RHR HX	205232, SHT. 1	Aux 1	S	N/A	N/A		
1						045	7	N/A	N/A		
1119B 2121B 3019B						11 RHR Hx Rm		PASSIVE			
1	21	1RHE3	RH	11 RHR HX	205232, SHT. 1	Aux 1	S	N/A	N/A		
1						045		N/A	N/A		
4414						11 RHR Hx Rm		PASSIVE			
3	21	1RHE4	CC	NO. 12 RHR HX	205231, SHT. 1	Aux 1	S	N/A	N/A		
1						045		N/A	N/A		
5136 4405						12 RHR Hx Rm		PASSIVE			
3	21	1RHE4	RH	12 RHR HX	205232, SHT. 1	Aux 1	S	N/A	N/A		
1						045	7	N/A	N/A		
1119D 2121D 3019D						12 RHR Hx Rm		PASSIVE			

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
	20	1RP1	EP	1 REACTOR PROT CONTROL ROOM STATUS PANEL		Aux 1	S	ENERG	N/A		
1						122		ENERG	N/A		
9117A						1 Control Rm		ACTIVE			
	20	1RP2	EP	1 REACTOR PROT CONTROL ROOM RECORDER PANEL		Aux 1	S	ENERG	N/A		
1						122		ENERG	N/A		
9049						1 West Elevator		ACTIVE			
	20	1RP4	EP	1 REACTOR PROT CONTROL ROOM RECORDER PANEL		Aux 1	N/A	ENERG	N/A		
1						122	21	ENERG	N/A		
9127						1 Control Rm		ACTIVE			
3	I	1SF36	CV	RWPF OUTLET V TO XFR CANAL	205233	IPA 1	N/A	CLOSED	N/A		
1						078	1	CLOSED	N/A		
3010 1110 2112						Mech Pen Area		PASSIVE			
3	I	1SF37	SF	RWPP TO SFP DM	205233	Aux 1	N/A	CLOSED	N/A		
1						100		CLOSED	N/A		
1108B 2110B 3008B						Ion Exch Rm/DM Alley		PASSIVE			
3	I	1SF38	CV	SFP DM OUTLET VLV TO RWPF	205233	Aux 1	N/A	CLOSED	N/A		
1						100	1	CLOSED	N/A		
3009 1109 2111						Ion Exch Rm/DM Alley		PASSIVE			
3	I	1SF74	SF	REFUELING CANAL DRAIN LINE CHK VLV	205233	N/R	N/A	CLOSED	N/A		
1						N/R		CLOSED	N/A		
1108A 2110A 3008A						N/R		PASSIVE			
3	21	1SFE12	CC	SPENT FUEL PIT HX	205231, SHT. 2	Aux 1	S	N/A	N/A		
1						084		N/A	N/A		
5114						Main Corridor		PASSIVE			

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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	8	1SJ1	CV	RWST TO CHG PMPS STOP MOV	205234, SHT. 1	Aux 1	SR	CLOSED	I1110 (2A)		
1						084	1	OPEN	1CDE		
3020 1120 2122						W/M Tk & Pmp Rm		ACTIVE			
3	8	1SJ12	CV	BIT OUTLET MOV	205234, SHT. 1	IPA 1	R	CLOSED	NR		
1						078	1	CLOSED	NR		
3029 1129 2131						Bit Rm Lower Lvl		PASSIVE			
3	8	1SJ13	CV	BIT OUTLET MOV	205234, SHT. 1	IPA 1	R	CLOSED	NR		
1						078	1	CLOSED	NR		
3030 1130 2132						Bit Rm Lower Lvl		PASSIVE			
2	8	1SJ2	CV	RWST TO CHG PMPS STOP MOV	205234, SHT. 1	Aux 1	SR	CLOSED	I1109 (1A)		
1						084	2	OPEN	1BDE		
3021 1121 2123						W/M Tk & Pmp Rm		ACTIVE			
3	21	1SJE1	CV	REFUEL WTR STORAGE TANK HX NO 1	205234, SHT. 1	Aux 1	S	N/A	N/A		
1						064	1	N/A	N/A		
3043 1143 2145						Pmp Rm		PASSIVE			
3	5	1SJE100	SW	11 SJ PMP LUBE OIL CLR	205242, SHT. 4	Aux 1	B	N/A	N/A		
1						084		N/A	N/A		
5354				1SJE2		11 SI Pmp Rm		PASSIVE			
3	5	1SJE101	SW	12 SJ PMP LUBE OIL CLR	205242, SHT. 3	Aux 1	B	N/A	N/A		
1						084		N/A	N/A		
5287				1SJE3		12 SI Pmp Rm		PASSIVE			
3	5	1SJE2	SW	11 SAFETY INJECTION PUMP	205234, SHT. 2	Aux 1	S	N/A	N/A		
1						084	22	N/A	N/A		
5354A						11 SI Pmp Rm		PASSIVE			

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	5	1SJE3	SW	12 SAFETY INJECTION PUMP	205234 SHT. 2	Aux 1	S	N/A	N/A		
1						084	22	N/A	N/A		
5287A						12 SI Pmp Rm		PASSIVE			
3	21	1SJE4	CV	BORON INJECTION TANK NO. 1	205234, SHT. 1	IPA 1	S	N/A	N/A		
1						078	1	N/A	N/A		
3028 1128 2130						Bit Rm Lower Lvl		PASSIVE			
3	21	1SJE5	CV	Refueling Water Storage Tank	205234, SHT. 1	Yard	S	N/A	N/A		
1						100	1	N/A	N/A		
3001 1101 2103						1 RWST Area		PASSIVE			
1	8	1SV1043	VH	SV FOR 1CAA15-DMOP	205248, SHT. 2	Aux 1	BR	DENRG/ENRG	I1131 (3D)		1CAA15-DMOP
1						122		ENERG			1SV703
5706				724-D		1 CR A/C Rm		ACTIVE			
1OP	8	1SV1044	VH	SV FOR 1CAA16-DMOP	205248, SHT. 2	Aux 1	BR	DENRG/ENRG	I1133 (4E)		1VHE65
1						122		ENERG			
5709				724-E		1 CR A/C Rm		ACTIVE			
1	8	1SV1045	VH	SV FOR 1VHE28	205321, SHT. 2	Aux 1	BR	DEENERG	I1104 (3G)		1VHE28
1						100		ENERG			
5811				726-1A		1A D/G Control Rm		ACTIVE			
1	8	1SV1046	VH	SV FOR 1VHE25	205321, SHT. 2	Aux 1	SR	DEENERG	I1104 (2G)		1VHE25
1						100	17	ENERG			
5801						1A D/G Rm		ACTIVE			
1	8	1SV1047	VH	SV FOR 1VHE29	205321, SHT. 2	Aux 1	BR	DEENERG	I1105 (3G)		1VHE29
1						100		ENERG			
5809				726-1C		1B D/G Control Rm		ACTIVE			

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	8	1SV1048	VH	SV FOR 1VHE26	205321, SHT. 2	Aux 1	BR	DEENERG	I1105 (2G)		1VHE26
1						100		ENERG			
5803				726-1D		1B D/G Rm		ACTIVE			
1	8	1SV1049	VH	SV FOR 1VHE30	205321, SHT. 2	Aux 1	BR	DEENERG	I1106 (3G)		1VHE30
1						100		ENERG			
5807				726-1E		1C D/G Control Rm		ACTIVE			
1	8	1SV1050	VH	SV FOR 1VHE27	205321, SHT. 2	Aux 1	BR	DEENERG	I1106 (2G)		1VHE27
1						100		ENERG			
5805				726-1F		1C D/G Rm		ACTIVE			
3	8	1SV110	CV	SV FOR 12SJ50	205234, SHT. 3	NR	R	DEENERG	NR		12SJ50
1						NR	1	DEENERG	NR		
3013A 1113A 2115A						NR		PASSIVE			
3	8	1SV111	CV	SV FOR 11SJ50	205234, SHT. 3	NR	R	DEENERG	NR		11SJ50
1						NR	1	DEENERG	NR		
3012A 1112A 2114A						NR		PASSIVE			
3	8	1SV1115	SW	SV FOR AO 11SW57	205242, SHT. 6	IPA 1	R	ENERG	1AADC		11SW57
1						078		ENERG			
5235				827-1A		Mech Penet Area		ACTIVE			
3	8	1SV1116	SW	SV FOR AO 12SW57	205242, SHT. 6	IPA 1	R	ENERG	1BBDC		12SW57
1						078		ENERG			
5247				827-1B		Mech Penet Area SG Blow Dn Hx		ACTIVE			
3	8	1SV1117	SW	SV FOR AO 13SW57	205242, SHT. 6	IPA 1	R	ENERG	1CCDC		13SW57
1						100		ENERG			
5259				827-1D		S/G B/D Area		ACTIVE			

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	8	1SV1118	SW	SV FOR AO 14SW57	205242, SHT. 6	IPA 1	R	ENERG	1BBDC		14SW57
1						078		ENERG			
5329				827-1C		Mech Penet Area SG Blow Dn Hx		ACTIVE			
3	8	1SV1119	SW	SV FOR AO 15SW57	205242, SHT. 6	IPA 1	R	ENERG	1CCDC		15SW57
1						100		ENERG			
5317				827-1E		S/G B/D Area		ACTIVE			
1	8	1SV1198	PR	PORV ACCUM OUTLET SOL VLV	205201, SHT 1	Cntmnt 1	SR	DEENERG	1AADC	211310-B-9508	1PD9859
1						130		DENRG/ENRG			
2105A						1 Pzr Area		ACTIVE			
1OP	8	1SV1199	PR	PORV ACCUM OUTLET SOL VLV	205201, SHT 1	Cntmnt 1	SR	DEENERG	1BBDC	211310-B-9508	1PD9860
1						130		DENRG/ENRG			
2105B						1 Pzr Area		ACTIVE			
3	8	1SV1468	SW	SV FOR AO 11SW223	205242, SHT. 6	IPA 1	R	ENERG	1AADC		11SW223
1						078		ENERG			
5245				827-1A		Mech Penet Area		ACTIVE			
3	8	1SV1470	SW	SV FOR AO 12SW223	205242, SHT. 6	IPA 1	R	ENERG	1BBDC		12SW223
1						078		ENERG			
5257				827-1B		Mech Penet Area SG Blow Dn Hx		ACTIVE			
3	8	1SV1473	SW	SV FOR AO 14SW223	205242, SHT. 6	IPA 1	R	ENERG	1BBDC		14SW223
1						078		ENERG			
5339				827-1C		Mech Penet Area SG Blow Dn Hx		ACTIVE			
3	8	1SV1475	SW	SV FOR AO 13SW223	205242, SHT 6	IPA 1	R	ENERG	1CCDC		13SW223
1						100		ENERG			
5270				827-1D		S/G B/D Area		ACTIVE			

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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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3	8	1SV1477	SW	SV FOR AO 15SW223	205242, SHT. 6	IPA 1	R	ENERG	1CCDC		15SW223
1						100		ENERG			
5327				827-1E		S/G B/D Area		ACTIVE			
3	8	1SV1499	SW	SV FOR AO 12SW376 SV FOR AO 12SW380	205242, SHT. 4	Aux 1	R	DENRG/ENRG	NR		12SW376 12SW380
1						084		DEENERG	NR		
5349				835-1B		12 CC Hx Rm		ACTIVE			
3OP	8	1SV259	SW	SV FOR SW STR B/D CONT V	205242, SHT. 1	Yard	R	ENRG/DENRG	I1103 (1G)		1SWE7
1						100		ENRG/DENRG			
5204				979-1A		Srvc Wtr Bldg		ACTIVE			
3OP	8	1SV260	SW	SV FOR SW STR B/D CONT V	205242, SHT. 1	Yard	R	ENRG/DENRG	I1103 (2G)		1SWE8
1						100		ENRG/DENRG			
5208				979-1B		Srvc Wtr Bldg		ACTIVE			
2	8	1SV261	SW	SV FOR SW STR B/D CONT V	205242, SHT. 1	Yard	R	ENRG/DENRG	I1126 (1G)		1SWE9
1						100		ENRG/DENRG			
5213				979-1C		Srvc Wtr Bldg		ACTIVE			
2	8	1SV262	SW	SV FOR AO 14SW24	205242, SHT. 2	Yard	R	ENRG/DENRG	I1102 (1G)		1SWE10
1						100		ENRG/DENRG			
5298				979-1D		Srvc Wtr Bldg		ACTIVE			
1	8	1SV263	SW	SV FOR AO 15SW24	205242, SHT. 2	Yard	R	ENRG/DENRG	I1101 (1G)		1SWE11
1						100		ENRG/DENRG			
5303				979-1E		Srvc Wtr Bldg		ACTIVE			
1	8	1SV264	SW	SV FOR AO 16SW24	205242, SHT. 2	Yard	R	ENRG/DENRG	I1101 (2G)		1SWE12
1						100		ENRG/DENRG			
5307				979-1F		Srvc Wtr Bldg		ACTIVE			

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 1 4116	8	1SV270	MS	SV FOR AO 13MS169	205203, SHT. 1	IPA 1 100 MS Pen Area	R	DEENERG ENERG ACTIVE	1CCDC 1DDE		13MS169
1 1 4118	8	1SV271	MS	SV FOR AO 13MS171	205203, SHT. 1	IPA 1 100 MS Pen Area	R	DEENERG ENERG ACTIVE	1DDC 1DDE		13MS171
1 1 4107	8	1SV274	MS	SV FOR AO 11MS169	205203, SHT. 1	IPA 1 100 MS Pen Area	R	DEENERG ENERG ACTIVE	1CCDC 1CDE		11MS169
1 1 4109	8	1SV275	MS	SV FOR AO 11MS171	205203, SHT. 1	IPA 1 100 MS Pen Area	R	DEENERG ENERG ACTIVE	1DDC 1CDE		11MS171
2 1 4136	8	1SV280	MS	SV FOR AO 12MS169	205203, SHT. 2	OPA 1 100 MS Pen Area	R	DEENERG ENERG ACTIVE	1CCDC 1CDE		12MS169
2 1 4138	8	1SV281	MS	SV FOR AO 12MS171	205203, SHT. 2	OPA 1 100 MS Pen Area	R	DEENERG ENERG ACTIVE	1DDC 1CDE		12MS171
1 1 4125	8	1SV284	MS	SV FOR AO 14MS169	205203, SHT. 2	OPA 1 100 MS Pen Area	R	DEENERG ENERG ACTIVE	1CCDC 1DDE		14MS169
1 1 4127	8	1SV285	MS	SV FOR AO 14MS171	205203, SHT. 2	OPA 1 100 MS Pen Area	R	DEENERG ENERG ACTIVE	1DDC 1DDE		14MS171

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3	8	1SV424	PR	SV FOR 1PR14	205201, SHT. 1	NR	R	DEENERG	NR		
1						NR		DEENERG	NR		
2023						NR		PASSIVE			
3	8	1SV426	CH	SV FOR AO 1CH168	205216, SHT. 1	Aux 1	R	ENERG	NR		1CH168
1						122		DEENERG	NR		
5426						CR A/C Rm		ACTIVE			
3	8	1SV442	CV	SV FOR 1CV114	205228, SHT. 3	Cntmnt 1	BR	ENERG	NR		
1						078		DEENERG	NR		
3129						Corridor at 13 Accumulator		ACTIVE			
1	8	1SV489	CV	SV FOR 1CV2	205228, SHT. 2	Cntmnt 1	BR	ENERG	NR		
1						078		DEENERG	NR		
3125A						Wkwy at #14 Accumulator		ACTIVE			
2	8	1SV490	CV	SV FOR 1CV277	205228, SHT. 2	Cntmnt 1	BR	ENERG	NR		
1						078		DEENERG	NR		
3126A						Wkwy at #14 Accumulator		ACTIVE			
1	8	1SV500	CV	SV FOR 1CV278	205228, SHT. 2	NR	R	DEENERG	NR		
1						NR		DEENERG	NR		
3122A						NR		PASSIVE			
3	8	1SV509	MS	SV FOR AO 1MS132	205203, SHT. 1	Aux 1	R	ENERG	NR		1MS132
1						084		DEENERG	NR		1MS52
4101						13 Aux Fd Pmp Rm		ACTIVE			
2	8	1SV581	MS	SV FOR AO 12MS18	205203, SHT. 2	OPA 1	R	DEENERG	NR		12MS18
1						100		DEENERG	NR		
4140						MS Pen Area		PASSIVE			

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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 1 4129	8	1SV583	MS	SV FOR AO 14MS18	205203, SHT. 2	OPA 1 100 MS Pen Area	R	DEENERG DEENERG PASSIVE	NR NR		14MS18
1 1 4120	8	1SV585	MS	SV FOR AO 13MS18	205203, SHT. 1	IPA 1 100 MS Pen Area	R	DEENERG DEENERG PASSIVE	NR NR		13MS18
1 1 4111	8	1SV587	MS	SV FOR AO 11MS18	205203, SHT. 1	IPA 1 100 MS Pen Area	R	DEENERG DEENERG PASSIVE	NR NR		11MS18
3 1 5221	8	1SV590	SW	SV FOR AO 11SW39 & 11SW40 11SW39	205242, SHT. 3	Aux 1 100 1A D/G Rm	BR	ENERG DEENERG ACTIVE	NR NR		11SW39 11SW40
3 1 5223	8	1SV591	SW	SV FOR AO 12SW39 & 12SW40 12SW39	205242, SHT. 3	Aux 1 100 1B D/G Rm	BR	ENERG DEENERG ACTIVE	NR NR		12SW39 12SW40
3 1 5225	8	1SV592	SW	SV FOR AO 13SW39 & 13SW40 13SW39	205242, SHT. 3	Aux 1 100 1C D/G Rm	BR	ENERG DEENERG ACTIVE	NR NR		13SW39 13SW40
3 1 5341	8	1SV593	SW	SV FOR AO 11SW92	205242, SHT. 5	IPA 1 100 Ch Wtr Pmp Area	R	DENRG/ENRG ENERG ACTIVE	1SWGR1AX 1SWGR1ADC		1CHE7
3 1 5344	8	1SV594	SW	SV FOR AO 12SW92	205242, SHT. 5	IPA 1 100 Ch Wtr Pmp Area	R	DENRG/ENRG ENERG ACTIVE	1SWGR1BX 1SWGR1BDC		1CHE8

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3 1 5289	8	1SV595	SW	SV FOR AO 13SW92 SV FOR AO 13SW93	205242, SHT. 5	IPA 1 100 Ch Wtr Pmp Area	R	DENRG/ENRG ENERG ACTIVE	1SWGR1CX 1SWGR1CDC		1CHE9
3 1 5277B	8	1SV596	SW	SV FOR AO 11SW153 101-1	205242, SHT 3	Aux 1 045 11 RHR Rm & Inst Rack 101	BR 8	ENERG ENRG/DENRG ACTIVE	I1131 (2J)		1VHE31
3 1 5278	8	1SV601	SW	SV FOR AO 11SW129 207-1	205242, SHT 3	Aux 1 084 12 Aux Fd Pmp Rm	BR	ENRG/DENRG DEENERG ACTIVE	NR NR		1VHE33
3 1 5275	8	1SV602	SW	SV FOR AO 1SW137 205-1	205242, SHT 3	Aux 1 084 12 Aux Fd Pmp Rm	BR	ENRG/DENRG DEENERG ACTIVE	NR NR		1VHE36
3 1 5351	8	1SV603	SW	SV FOR AO 12SW129 206-1	205242, SHT. 4	Aux 1 084 12 Aux Fd Pmp Rm	BR	ENRG/DENRG DEENERG ACTIVE	NR NR		1VHE34
3 1 5350B	8	1SV604	SW	SV FOR AO 12SW153 102-1	205242, SHT. 4	Aux 1 045 Instrument Rack 102	BR	ENERG ENRG/DENRG ACTIVE	I1132 (2J)		1VHE32
3 1 5357	8	1SV605	SW	SV FOR AO 1SW185	205242, SHT. 4	Aux 1 084 Chrg Pmp Vlv Alley	R	DEENERG DEENERG PASSIVE	NR NR		1SW185
3 1 5359	8	1SV606	SW	SV FOR AO 1SW191 229-1B	205242, SHT. 4	Aux 1 084 Chrg Pmp Vlv Alley	BR	ENRG/DENRG DEENERG ACTIVE	NR NR		1VHE37

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3	8	1SV607	SW	SV FOR AO 1SW199	205242, SHT. 3	Aux 1	R	DEENERG	NR		1SW199
1						084		DEENERG	NR		
5285						Chrg Pmp Vlv Alley		PASSIVE			
3	8	1SV608	SW	SV FOR AO 1SW205	205242, SHT. 3	Aux 1	R	ENRG/DENRG	NR		1VHE38
1						084		DEENERG	NR		
5282						Chrg Pmp Vlv Alley		ACTIVE			
3	8	1SV610	SW	SV FOR AO 1SW213	205242, SHT. 4	Aux 1	BR	ENRG/DENRG	NR		1VHE39
1						084		DEENERG	NR		
5363				229-1A		Chrg Pmp Vlv Alley		ACTIVE			
3	8	1SV613	SW	SV FOR AO 11SW122	205242, SHT 3	Aux 1	BR	DENRG/ENRG	NR		11SW122
1						084		DEENERG	NR		
5272				203-1		11 CC Pmp Rm		ACTIVE			
3	8	1SV622	SW	SV FOR AO 11SW58	205242, SHT. 6	IPA 1	R	DEENERG	NR		11SW58
1						078		DEENERG	NR		
5237						Mech Penet Area		PASSIVE			
3	8	1SV623	SW	SV FOR AO 11SW72	205242, SHT. 6	IPA 1	R	DEENERG	NR		11SW72
1						078		DEENERG	NR		
5243						Mech Penet Area		PASSIVE			
3	8	1SV625	SW	SV FOR AO 12SW58	205242, SHT. 6	IPA 1	R	DEENERG	NR		12SW58
1						078		DEENERG	NR		
5249						Mech Penet Area SG Blow Dn Hx		PASSIVE			
3	8	1SV626	SW	SV FOR AO 12SW72	205242, SHT. 6	IPA 1	R	DEENERG	NR		12SW72
1						078		DEENERG	NR		
5255						Mech Penet Area SG Blow Dn Hx		PASSIVE			

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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3 1 5261	8	1SV628	SW	SV FOR AO 13SW58	205242, SHT. 6	IPA 1 100 S/G B/D Area	R	DEENERG DEENERG PASSIVE	NR NR		13SW58
3 1 5268	8	1SV629	SW	SV FOR AO 13SW72	205242, SHT 6	IPA 1 100 S/G B/D Area	R	DEENERG DEENERG PASSIVE	NR NR		13SW72
3 1 5331	8	1SV631	SW	SV FOR AO 14SW58	205242, SHT. 6	IPA 1 078 Mech Penet Area SG Blow Dn Hx	R	DEENERG DEENERG PASSIVE	NR NR		14SW58
3 1 5337	8	1SV632	SW	SV FOR AO 14SW72	205242, SHT. 6	IPA 1 078 Mech Penet Area SG Blow Dn Hx	R	DEENERG DEENERG PASSIVE	NR NR		14SW72
3 1 5319	8	1SV634	SW	SV FOR AO 15SW58	205242, SHT. 6	IPA 1 100 S/G B/D Area	R	DEENERG DEENERG PASSIVE	NR NR		15SW58
3 1 5325	8	1SV635	SW	SV FOR AO 15SW72	205242, SHT. 6	IPA 1 100 S/G B/D Area	R	DEENERG DEENERG PASSIVE	NR NR		15SW72
1 1 5701	8	1SV695	VH	SV FOR 1CAA17-DMOP 407-1	205248, SHT. 2	Aux 1 122 1 CR A/C Rm	BR	ENERG DEENERG ACTIVE	NR NR		1CAA17-DMOP 1SV703
3 1 4501	8	1SV706	GB	SV FOR AO 11GB4 325-1	205225, SHT. 2	IPA 1 100 STM GEN B/D AREA	BR	ENERG DEENERG ACTIVE	NR NR		

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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	8	1SV707	GB	SV FOR AO 12GB4	205225, SHT. 2	IPA 1	BR	ENERG	NR		
1						100		DEENERG	NR		
4505				325-1		STM GEN B/D AREA		ACTIVE			
3	8	1SV708	GB	SV FOR AO 13GB4	205225, SHT. 2	IPA 1	BR	ENERG	NR		
1						100		DEENERG	NR		
4509				325-1		STM GEN B/D AREA		ACTIVE			
3	8	1SV709	GB	SV FOR AO 14GB4	205225, SHT. 2	IPA 1	BR	ENERG	NR		
1						100		DEENERG	NR		
4513				325-1		STM GEN B/D AREA		ACTIVE			
1	8	1SV759	PR	SV FOR 1PR1	205201, SHT. 1	Cntmnt 1	BR	DEENERG	1AADC		1CA-ED-0148B 1CA-EC-0398B
1						130		ENRG/DENRG	1ADE		
2003				1PR1		1 Pzr Area		ACTIVE			
1	8	1SV759	PR	SV FOR 1PR1	205201, SHT. 1	Cntmnt 1	BR	DEENERG	NR		1CA-ED-0148B 1CA-EC-0398B
1						130		DEENERG	NR		
3104B				1PR1		1 Pzr Area		PASSIVE			
1OP	8	1SV760	PR	SV FOR 1PR2	205201, SHT. 1	Cntmnt 1	BR	DEENERG	1BBDC		1CA-ED-0148A 1CA-EC-0398A
1						130		ENRG/DENRG	1BDE		
2008				1PR2		1 Pzr Area		ACTIVE			
1OP	8	1SV760	PR	SV FOR 1PR2	205201, SHT. 1	Cntmnt 1	R	DEENERG	NR		
1						130		DEENERG	NR		
3105B						1 Pzr Area		PASSIVE			
1	8	1SV920	VH	SV FOR 1CBV18-DMOP SV FOR 1CBV17-DMOP	205238, SHT. 2	Cntmnt 1	BR	ENERG	NR		1VHE15
1						130		DEENERG	NR		
5908				440-1A		11 CFCU		ACTIVE			

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SALEM GENERATING STATION - UNIT 1
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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 1 5913	8	1SV921	VH	SV FOR 1CBV13-DMOP SV FOR 1CBV14-DMOP 440-1B	205238, SHT. 2	Cntmnt 1 130 12 CFCU	BR	ENERG DEENERG ACTIVE	NR NR		1VHE16
1 1 5918	8	1SV922	VH	SV FOR 1CBV9-DMOP SV FOR 1CBV10-DMOP 440-1C	205238, SHT. 3	Cntmnt 1 130 13 CFCU	BR	ENERG DEENERG ACTIVE	NR NR		1VHE17
1 1 5923	8	1SV923	VH	SV FOR 1CBV6-DMOP SV FOR 1CBV5-DMOP 440-1D	205238, SHT. 3	Cntmnt 1 130 14 CFCU	BR	ENERG DEENERG ACTIVE	NR NR		1VHE18
1 1 5903	8	1SV924	VH	SV FOR 1CBV22-DMOP SV FOR 1CBV21-DMOP 440-1E	205238, SHT. 2	Cntmnt 1 130 15 CFCU	BR	ENERG DEENERG ACTIVE	NR NR		1VHE19
3 1 5274	7	1SW137	SW	AF PMP RM CLR SW CONT V	205242, SHT 3	Aux 1 084 12 Aux Fd Pmp Rm	S S	CLOSED/OPEN OPEN ACTIVE	N/A N/A		1SV602
3 1 5356	7	1SW185	SW	CHG PMP LO CLR SW CONT V	205242, SHT. 4	Aux 1 084 Chrg Pmp Vlv Alley	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV605
3 1 5358	7	1SW191	SW	CHG PMP RM CLR SW CONT V	205242, SHT. 4	Aux 1 084 Chrg Pmp Vlv Alley	S	CLOSED/OPEN OPEN ACTIVE	N/A N/A		1SV606
3 1 5284	7	1SW199	SW	12 CHG PMP LO CLR CONT VALVE	205242, SHT. 3	Aux 1 084 Chrg Pmp Vlv Alley	N/A	OPEN OPEN PASSIVE	N/A N/A		1SV607

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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	7	1SW205	SW	CHG PMP ROOM CLR SW INLET V	205242, SHT. 3	Aux 1	S	CLOSED/OPEN	N/A		1SV608
1						084		OPEN	N/A		
5281						Chrg Pmp Vlv Alley		ACTIVE			
3	7	1SW213	SW	CHG PMP RM CLR SW CONT V	205242, SHT. 4	Aux 1	S	CLOSED/OPEN	N/A		1SV610
1						084		OPEN	N/A		
5362						Chrg Pmp Vlv Alley		ACTIVE			
3	8	1SW26	SW	TG HDR INLET MOV	205242, SHT. 1	Yard	SR	OPEN	I1126 (2F)		
1						100		CLOSED	1BDE		
5216						Srvc Wtr Bldg		ACTIVE			
3OP	I	1SW306	SW	S.W. PUMP RECIRC ISOL VLV	205242, SHT. 1	Yard	N/A	OPEN	N/A		
1						100	4	CLOSED	N/A		
5292						Srvc Wtr Bldg		ACTIVE			
3	7	1SW308	SW	RECIRC CONTROL V PNL740-1GG	205242, SHT. 1	Yard	S	OPEN	N/A		
1						100	9	CLOSED	N/A		
5293						Srvc Wtr Bldg		ACTIVE			
3OP	6	1SWE1	SW	11 SERVICE WATER PUMP	205242, SHT. 1	Yard	S	ON/OFF	N/A		BKR-1C3D
1						100		ON	N/A		
5200						Srvc Wtr Bldg		ACTIVE			
2	0	1SWE10	SW	14 SW PMP DISCH STRAINER	205242, SHT. 2	Yard	S	OPERABLE	N/A		
1						100		OPERABLE	N/A		
5256						Srvc Wtr Bldg		PASSIVE			
2	0	1SWE10-MTRY	SW	14 SW STRAINER MTR	207903	Yard	BR	OFF	I1102 (1G)		
1						100		OFF/ON			
5368				1SWE10		Srvc Wtr Bldg		ACTIVE			

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1	0	1SWE11	SW	15 SW PMP DISCH STRAINER	205242, SHT. 2	Yard	S	OPERABLE	N/A		
1						100		OPERABLE	N/A		
5301						Srvc Wtr Bldg		PASSIVE			
1	0	1SWE11-MTRY	SW	15 SW STRAINER MTR	207902	Yard	BR	OFF	I1101 (1G)		
1						100		OFF/ON			
5369				1SWE11		Srvc Wtr Bldg		ACTIVE			
1	0	1SWE12	SW	16 SW PMP DISCH STRAINER	205242, SHT. 2	Yard	S	OPERABLE	N/A		
1						100		OPERABLE	N/A		
5309						Srvc Wtr Bldg		PASSIVE			
1	0	1SWE12-MTRY	SW	16 SW STRAINER MTR	207902	Yard	BR	OFF	I1101 (1G)		
1						100		OFF/ON			
5370				1SWE12		Srvc Wtr Bldg		ACTIVE			
3	10	1SWE13	SW	11 RHR PMP RM CLR	205242, SHT. 3	Aux 1	S	N/A	N/A		
1						045		N/A	N/A		
5286						11 RHR Pmp Rm		PASSIVE			
3	10	1SWE14	SW	12 CHRG PMP RM CLR	205242, SHT. 3	Aux 1	S	N/A	N/A		
1						084		N/A	N/A		
5283						12 Chrg Pmp Rm		PASSIVE			
3	10	1SWE15	SW	11 CONT SPRAY PMP RM CLR	205242, SHT. 3	Aux 1	S	N/A	N/A		
1						084		N/A	N/A		
5280						11 Cont Spray Pmp Rm		PASSIVE			
3	10	1SWE16	SW	11 CC PMP RM CLR	205242, SHT. 3	Aux 1	S	N/A	N/A		ABV
1						084		N/A	N/A		
5279						11 CC Pmp Rm		PASSIVE			

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3	10	1SWE17	SW	11 & 12 AF PMP RM CLR	205242, SHT 3	Aux 1	S	N/A	N/A		ABV
1						084	8	N/A	N/A		
5276						12 Aux Fd Pmp Rm		PASSIVE			
3	21	1SWE18	SW	12 & 13 CC PMP RM CLR	205242, SHT. 4	Aux 1	S	N/A	N/A		
1						084		N/A	N/A		
5352						12 Aux Fd Pmp Rm		PASSIVE			
3	10	1SWE19	SW	12 RHR PMP RM CLR	205242, SHT. 4	Aux 1	S	N/A	N/A		
1						045		N/A	N/A		
5353						12 RHR Pmp Rm		PASSIVE			
3OP	6	1SWE2	SW	12 SERVICE WATER PUMP	205242, SHT. 1	Yard	S	ON/OFF	N/A		BKR-1C8D
1						100		ON	N/A		
5205						Srvc Wtr Bldg		ACTIVE			
3	21	1SWE20	SW	11 CHRG PMP RM CLR	205242, SHT. 4	Aux 1	B	N/A	N/A		
1						084		N/A	N/A		
5360				1VHE37		11 Chrg Pmp Rm		PASSIVE			
3	10	1SWE21	SW	1 SJ PMP RM CLR	205242, SHT. 4	Aux 1	S	N/A	N/A		
1						084		N/A	N/A		
5355						11 SI Pmp Rm		PASSIVE			
3	10	1SWE22	SW	12 CONT SPRAY PMP RM CLR	205242, SHT. 4	Aux 1	S	N/A	N/A		
1						084		N/A	N/A		
5361						12 Cont Spray Pmp Rm		PASSIVE			
3	21	1SWE23	SW	13 CHRG PMP RM CLR	205242, SHT. 4	Aux 1	B	N/A	N/A		
1						084		N/A	N/A		
5364				1VHE39		13 Chrg Pmp Rm		PASSIVE			

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3 1 5238	9	1SWE24	SW	11 FCU	205242, SHT. 6	Cntmnt 1 130 11 CFCU	S	N/A N/A PASSIVE	N/A N/A		
3 1 5250	9	1SWE25	SW	12 FCU	205242, SHT. 6	Cntmnt 1 130 12 CFCU	S	N/A N/A PASSIVE	N/A N/A		
3 1 5263	9	1SWE26	SW	13 FCU	205242, SHT. 6	Cntmnt 1 130 13 CFCU	S	N/A N/A PASSIVE	N/A N/A		
3 1 5332	9	1SWE27	SW	14 CFCU	205242, SHT. 6	Cntmnt 1 130 14 CFCU	S	N/A N/A PASSIVE	N/A N/A		
3 1 5320	9	1SWE28	SW	15 CFCU	205242, SHT. 6	Cntmnt 1 130 15 CFCU	S	N/A N/A PASSIVE	N/A N/A		
3 1 5239	10	1SWE29	SW	11 FCU MOTOR COOLER 1VHE15	205242, SHT. 6	Cntmnt 1 130 11 CFCU	B	N/A N/A PASSIVE	N/A N/A		
2 1 5210	6	1SWE3	SW	13 SERVICE WATER PUMP	205242, SHT. 1	Yard 100 Srvc Wtr Bldg	S	ON/OFF ON ACTIVE	N/A N/A		BKR-1B3D
3 1 5251	10	1SWE30	SW	12 FCU MOTOR COOLER 1VHE16	205242, SHT. 6	Cntmnt 1 130 12 CFCU	B	N/A N/A PASSIVE	N/A N/A		

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Print or Type Name/Title	Signature	Date	Print or Type Name/Title	Signature	Date
John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3 1 5264	10	1SWE31	SW	13 FCU MOTOR COOLER 1VHE17	205242, SHT. 6	Cntmnt 1 130 13 CFCU	B	N/A N/A PASSIVE	N/A N/A		
3 1 5383	10	1SWE32	SW	14 CFCU MOTOR COOLER 1VHE18	205242, SHT. 6	Cntmnt 1 130 14 CFCU	B	N/A N/A PASSIVE	N/A N/A		
3 1 5321	10	1SWE33	SW	15 CFCU MOTOR COOLER 1VHE19	205242, SHT. 6	Cntmnt 1 130 15 CFCU	B	N/A N/A PASSIVE	N/A N/A		
2 1 5295	6	1SWE4	SW	14 SW PMP	205242, SHT. 2	Yard 100 Srvc Wtr Bldg	S	ON/OFF ON ACTIVE	N/A N/A		BKR-1B8D
3OP 1 5371	0	1SWE42-MTRY	SW	11 TRAVELING WTR SCREEN MTR	207905	Yard 100 Srvc Wtr Bldg	R	OFF OFF/ON ACTIVE	I1103 (1A)		
3OP 1 5372	0	1SWE43-MTRY	SW	12 TRAVELING WTR SCREEN MTR	207905	Yard 100 Srvc Wtr Bldg	R	OFF OFF/ON ACTIVE	I1103 (2A)		
2 1 5373	0	1SWE44-MTRY	SW	13 TRAVELING WTR SCREEN MTR	207904	Yard 100 Srvc Wtr Bldg	R	OFF OFF/ON ACTIVE	I1126 (1A)		
2 1 5374	0	1SWE45-MTRY	SW	14 TRAVELING WTR SCREEN MTR	207903	Yard 100 Srvc Wtr Bldg	R	OFF OFF/ON ACTIVE	I1102 (1A)		

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 1 5375	0	1SWE46-MTRY	SW	15 TRAVELING WTR SCREEN MTR	207902	Yard 100 Srvc Wtr Bldg	R	OFF OFF/ON ACTIVE	I1101 (1A)		
1 1 5376	0	1SWE47-MTRY	SW	16 TRAVELING WTR SCREEN MTR	207902	Yard 100 Srvc Wtr Bldg	R	OFF OFF/ON ACTIVE	I1101 (2A)		
1 1 5300	6	1SWE5	SW	15SW PMP	205242, SHT. 2	Yard 100 Srvc Wtr Bldg	S	ON/OFF ON ACTIVE	N/A N/A		BKR-1A3D
1 1 5305	6	1SWE6	SW	16 SW PMP	205242, SHT. 2	Yard 100 Srvc Wtr Bldg	S	ON/OFF ON ACTIVE	N/A N/A		BKR-1A8D
3OP 1 5201	0	1SWE7	SW	11 SW PMP DISCH STRAINER	205242, SHT. 1	Yard 100 Srvc Wtr Bldg	S	OPERABLE OPERABLE PASSIVE	N/A N/A		
3OP 1 5365	0	1SWE7-MTRY	SW	11 SW STRAINER MTR 1SWE7	207905	Yard 100 Srvc Wtr Bldg	BR	OFF OFF/ON ACTIVE	I1103 (1G)		
3OP 1 5206	0	1SWE8	SW	12 SW PMP DISCH STRAINER	205242, SHT. 1	Yard 100 Srvc Wtr Bldg	S	OPERABLE OPERABLE PASSIVE	N/A N/A		
3OP 1 5356	0	1SWE8-MTRY	SW	12 SW STRAINER MTR 1SWE8	207905	Yard 100 Srvc Wtr Bldg	BR	OFF OFF/ON ACTIVE	I1103 (2G)		

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL / NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2	0	1SWE9	SW	13 SW PMP DISCH STRAINER	205242, SHT. 1	Yard	S	OPERABLE	N/A		
1						100		OPERABLE	N/A		
5211						Srvc Wtr Bldg		PASSIVE			
2	0	1SWE9-MTRY	SW	13 SW STRAINER MTR	207904	Yard	BR	OFF	I1126 (1G)		
1						100		OFF/ON			
5367				1SWE9		Srvc Wtr Bldg		ACTIVE			
1	3	1SWGR1AD	EP	NO 1A 4160V VITAL BUS	203002	Aux 1	S	ENERG	1DAE4		BKR-1ADD
1						064		ENERG			
8001						4 KV Vital Bus & Bat Rm		ACTIVE			
1	2	1SWGR1ADC	EP	NO 1A 125VDC BUS	203007	Aux 1	S	ENERG	1BTRY1A10Y		
1						084		ENERG			
8011						460/230V Vital 125/250DC Bat		ACTIVE			
1	14	1SWGR1ADE	EP	NO 1A 28VDC BUS	211357, SHT. 1	Aux 1	S	ENERG	1BTRY1A12Y		
1						100		ENERG			
8014						1 Relay Rm		ACTIVE			
1	2	1SWGR1AX	EP	NO 1A 460V VITAL BUS	601231	Aux 1	S	ENERG	1XFR1A4DAX		
1						084		ENERG			
8004						460/230V Vital 125/250DC Bat		ACTIVE			
1	2	1SWGR1AY	EP	NO 1A 230V VITAL BUS	601241	Aux 1	S	ENERG	1XFR1A4DBY		
1						084		ENERG			
8005						460/230V Vital 125/250DC Bat		ACTIVE			
2	3	1SWGR1BD	EP	NO 1B 4160V VITAL BUS	203002	Aux 1	S	ENERG	1DAE23		BKR-1BDD
1						064		ENERG			
8021						4 KV Vital Bus & Bat Rm		ACTIVE			

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT *LINE NOS*	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION *ROB COMPONENT NO.*	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2	2	1SWGR1BDC	EP	NO 1B 125VDC BUS	203007	Aux 1	S	ENERG	1BTRY1B10Y		
1						084		ENERG			
8030						460/230V Vital 125/250DC Bat		ACTIVE			
2	14	1SWGR1BDE	EP	NO 1B 28VDC BUS	211357, SHT. 1	Aux 1	S	ENERG	1BTRY1B14Y		
1						100		ENERG			
8033						1 Relay Rm		ACTIVE			
2	2	1SWGR1BX	EP	NO 1B 460V VITAL BUS	601232	Aux 1	S	ENERG	1XFR1B4DAX		
1						084		ENERG			
8024						460/230V Vital 125/250DC Bat		ACTIVE			
2	2	1SWGR1BY	EP	NO 1B 230V VITAL BUS	601242	Aux 1	S	ENERG	1XFR1B4DBY		
1						084		ENERG			
8025						460/230V Vital 125/250DC Bat		ACTIVE			
3	2	1SWGR1C9X	EP	NO 1C 460V VITAL BUS EXTENSION	601233	Aux 1	S	ENERG	1SWGR1CX		BKR-1C9X
1						064		ENERG			
8051						4 KV Vital Bus & Bat Rm		ACTIVE			
3	3	1SWGR1CD	EP	NO 1C 4160V VITAL BUS	203002	Aux 1	S	ENERG	1DAE38		BKR-1CDD
1						064		ENERG			
8047						4 KV Vital Bus & Bat Rm		ACTIVE			
3	2	1SWGR1CDC	EP	NO 1C 125VDC BUS	203007	Aux 1	S	ENERG	1BTRY1C12Y		
1						084		ENERG			
8059						460/230V Vital 125/250DC Bat		ACTIVE			
3	2	1SWGR1CX	EP	NO 1C 460V VITAL BUS	601233	Aux 1	S	ENERG	1XFR1C4DAX		
1						084		ENERG			
8050						460/230V Vital 125/250DC Bat		ACTIVE			

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3 1 8052	2	1SWGR1CY	EP	NO 1C 230V VITAL BUS	601243	Aux 1 084 460/230V Vital 125/250DC Bat	S	ENERG ENERG ACTIVE	1XFR1C4DBY		
1 1 8066	2	1SWGR1EPX	EP	NO. 1EP 480V PRESSURIZER HTR BUS (BACK-UP GROUP 2)	601238	IPA 1 078 460/230V Vital 125/250DC Bat	S	ENERG ENERG ACTIVE	1SWGR1AX		BKR-1A14X
3 1 8065	14	1SWGR1GPX	EP	NO. 1GP 480V PRESSURIZER HTR BUS (BACK-UP GROUP 1)	601239	IPA 1 078 A. B. C East Valves CC	S	ENERG ENERG ACTIVE	1SWGR1C9X		BKR-1C23X
2 1 4301	18	1TA14	RC	TEMPERATURE INDICATOR, LOOP 11 1RP4	205201, SHT. 2	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1A5YA		1TE413A 1TE413B
2 1 4304	18	1TA16	RC	TEMPERATURE INDICATOR, LOOP 12 1RP4	205201, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1A5YA		1TE423A 1TE423B
1 1 4307	18	1TA36	RC	TEMPERATURE INDICATOR, LOOP 13 1RP4	205201, SHT. 2	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1C5YA		1TE433A 1TE433B
1 1 4310	18	1TA38	RC	TEMPERATURE INDICATOR, LOOP 14 1RP4	205201, SHT. 3	Aux 1 122 1 Control Rm	BR	OPERABLE OPERABLE ACTIVE	1DIS1C5YA		1TE443A 1TE443B
1 1 4302	18	1TE413A	RC	TEMPERATURE ELEMENT, RCS LOOP 11 HOT LEG	205201, SHT. 2	Cntmnt 1 078 11 S/G & RCP Supports	S	OPERABLE OPERABLE ACTIVE	N/A N/A		

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SALEM GENERATI STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 1 4303	18	1TE413B	RC	TEMPERATURE ELEMENT, RCS LOOP 11 COLD LEG	205201, SHT. 2	Cntmnt 1 078 11 S/G & RCP Supports	S	OPERABLE OPERABLE ACTIVE	N/A N/A		
2 1 4305	18	1TE423A	RC	TEMPERATURE ELEMENT, RCS LOOP 12 HOT LEG	205201, SHT. 3	Cntmnt 1 078 12 S/G & RCP Supports	S	OPERABLE OPERABLE ACTIVE	N/A N/A		
2 1 4306	18	1TE423B	RC	TEMPERATURE ELEMENT, RCS LOOP 12 COLD LEG	205201, SHT. 3	Cntmnt 1 078 12 S/G & RCP Supports	S	OPERABLE OPERABLE ACTIVE	N/A N/A		
1 1 4308	18	1TE433A	RC	TEMPERATURE ELEMENT, RCS LOOP 13 HOT LEG	205201, SHT. 2	Cntmnt 1 078 13 S/G & RCP Supports	S	OPERABLE OPERABLE ACTIVE	N/A N/A		
1 1 4309	18	1TE433B	RC	TEMPERATURE ELEMENT, RCS LOOP 13 COLD LEG	205201, SHT. 2	Cntmnt 1 078 13 S/G & RCP Supports	S	OPERABLE OPERABLE ACTIVE	N/A N/A		
2 1 4311	18	1TE443A	RC	TEMPERATURE ELEMENT, RCS LOOP 14 HOT LEG	205201, SHT. 3	Cntmnt 1 078 14 S/G & RCP Supports	S	OPERABLE OPERABLE ACTIVE	N/A N/A		
2 1 4312	18	1TE443B	RC	TEMPERATURE ELEMENT, RCS LOOP 14 COLD LEG	205201, SHT. 3	Cntmnt 1 078 14 S/G & RCP Supports	S	OPERABLE OPERABLE ACTIVE	N/A N/A		
1 9050	20	1TRCC	EP	1 CABINET RELAY ROOM TERMINAL RACK 1TRCC		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
	20	1TRDD	EP	11-14 MN STM & TRB BY PASS STY V HYD PMP OVRD RLY TERM RACK		Aux 1	S	ENERG	N/A		
1						100		ENERG	N/A		
9051						1 Relay Rm		ACTIVE			
1	9	1VHE15	VH	11 CFCU FAN	205238, SHT. 2	Cntmnt 1	S	OFF/ON	N/A		
1						130		ON	N/A		
5905						11 CFCU		ACTIVE			
1	9	1VHE15-MTRX	VH	11 CFCU MTR	205238, SHT. 2	Cntmnt 1	B	OFF/ON	1SWGR1AX		BKR-1A2X
1						130		ON			
5909				1VHE15		11 CFCU		ACTIVE			
1	9	1VHE16	VH	12 CFCU FAN	205238, SHT. 2	Cntmnt 1	S	OFF/ON	N/A		
1						130		ON	N/A		
5910						12 CFCU		ACTIVE			
1	9	1VHE16-MTRX	VH	12 CFCU MTR	205238, SHT. 2	Cntmnt 1	B	OFF/ON	1SWGR1BX		BKR-1B2X
1						130		ON			
5914				1VHE16		12 CFCU		ACTIVE			
1	9	1VHE17	VH	13 CFCU FAN	205238, SHT. 3	Cntmnt 1	S	OFF/ON	N/A		
1						130		ON	N/A		
5915						13 CFCU		ACTIVE			
1	9	1VHE17-MTRX	VH	13 CFCU MTR	205238, SHT. 3	Cntmnt 1	B	OFF/ON	1SWGR1CX		BKR-1C2X
1						130		ON			
5919				1VHE17		13 CFCU		ACTIVE			
1	9	1VHE18	VH	14 CFCU FAN	205238, SHT. 3	Cntmnt 1	S	OFF/ON	N/A		
1						130		ON	N/A		
5920						14 CFCU		ACTIVE			

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	9	1VHE18-MTRX	VH	14 CFCU MTR	205238, SHT. 3	Cntmnt 1	B	OFF/ON	1SWGR1BX		BKR-1B6X
1						130		ON			
5924				1VHE18		14 CFCU		ACTIVE			
1	9	1VHE19	VH	15 CFCU FAN	205238, SHT. 2	Cntmnt 1	S	OFF/ON	N/A		
1						130		ON	N/A		
5900						15 CFCU		ACTIVE			
1	9	1VHE19-MTRX	VH	15 CFCU MTR	205238, SHT. 2	Cntmnt 1	B	OFF/ON	1SWGR1CX		BKR-1C6X
1						130		ON			
5904				1VHE19		15 CFCU		ACTIVE			
1	I	1VHE200	VH	1 EMERG AIR FILTRATION UNIT	205248, SHT. 2	Aux 1	N/A	OPERABLE	N/A		
1						122		OPERABLE	N/A		
5702						CR A/C Rm		PASSIVE			
1	9	1VHE25	VH	11 D/G AREA EXH FAN	205321, SHT. 2	Aux 1	SR	OFF	I1104 (2G)		
1						122		ON			
5800						11 D/G Exh Fn Rm/1A Day Tk		ACTIVE			
1	9	1VHE26	VH	12 D/G AREA EXH FAN	205321, SHT. 2	Aux 1	SR	OFF	I1105 (2G)		
1						122		ON			
5802						12 D/G Exh Fan Rm/1B Day Tk		ACTIVE			
1	9	1VHE27	VH	13 D/G AREA EXH FAN	205321, SHT. 2	Aux 1	SR	OFF	I1106 (2G)		
1						122		ON			
5804						13 D/G Exh Fan Rm/1C Day Tk		ACTIVE			
1	9	1VHE28	VH	11 DIESEL CONTROL AREA EXH FAN	205321, SHT. 2	Aux 1	SR	OFF	I1104 (3G)		
1						122		ON			
5810						11 D/G Exh Fn Rm/1A Day Tk		ACTIVE			

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	9	1VHE29	VH	12 DIESEL CONTROL AREA EXH FAN	205321, SHT. 2	Aux 1	SR	OFF	I1105 (3G)		
1						122		ON			
5808						12 D/G Exh Fan Rm/1B Day Tk		ACTIVE			
1	9	1VHE30	VH	13 DIESEL CONTROL AREA EXH FAN	205321, SHT. 2	Aux 1	SR	OFF	I1106 (3G)		
1						122		ON			
5806						13 D/G Exh Fan Rm/1C Day Tk		ACTIVE			
1	10	1VHE31	VH	11 RHR PMP RM CLR	205237, SHT. 3	Aux 1	SR	OFF	I1131 (2J)		
1						045		OFF/ON			
5713						11 RHR Pmp Rm		ACTIVE			
1	10	1VHE315	VH	1 CONTRL AREA VENT EMER AIR FLTR COOLING COIL	205248, SHT. 2	Aux 1	S	N/A	N/A		
1						122		N/A	N/A		
5703						CR A/C Rm		PASSIVE			
1	10	1VHE32	VH	12 RHR PMP RM CLR	205237, SHT. 3	Aux 1	SR	OFF	I1132 (2J)		
1						045		OFF/ON			
5714						12 RHR Pmp Rm		ACTIVE			
1	9	1VHE33	VH	11 CC PMP RM CLR FAN UNIT	205237, SHT. 3	Aux 1	SR	OFF/ON	I1133 (2D)		1TD7552
1						084		ON			
5500						13 Aux Fd Pmp Rm		ACTIVE			
1	9	1VHE34	VH	12 & 13 CC PMP RM CLR FAN UNIT	205237, SHT. 3	Aux 1	SR	OFF/ON	I1132 (2D)		1TD7575 1TD7545
1						084		ON			
5501						12 Aux Fd Pmp Rm		ACTIVE			
1	9	1VHE36	VH	11 & 12 AUX FEED WTR PMP RM CLR FAN UNIT	205237, SHT. 3	Aux 1	SR	OFF/ON	I1131 (2D)		1TD7551 1TD7554
1						084		ON			
5502						12 Aux Fd Pmp Rm		ACTIVE			

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	9	1VHE37	VH	11 CHRG PMP RM CLR FAN UNIT	205237, SHT. 3	Aux 1	SR	OFF/ON	I1132 (1G)		1TD7547
1						084		ON			
5503						11 Chrg Pmp Rm		ACTIVE			
1	9	1VHE38	VH	12 CHRG PMP RM CLR FAN UNIT	205237, SHT. 3	Aux 1	SR	OFF/ON	I1133 (1G)		1TD7554
1						084		ON			
5504						12 Chrg Pmp Rm		ACTIVE			
1	9	1VHE39	VH	13 CHRG PMP RM CLR FAN UNIT	205237, SHT. 3	Aux 1	SR	OFF/ON	I1131 (1G)		1TD7550
1						084		ON			
5505						13 Chrg Pmp Rm		ACTIVE			
1	9	1VHE64	VH	11 EMERG A/C SUP FAN	205248, SHT. 2	Aux 1	SR	OFF/ON	I1131 (3D)		
1						122		ON			
5704						CR A/C Rm		ACTIVE			
1OP	9	1VHE65	VH	12 EMERG A/C SUP FAN	205248, SHT. 2	Aux 1	SR	OFF/ON	I1133 (4E)		
1						122		ON			
5707						CR A/C Rm		ACTIVE			
1	10	1VHE838	VH	1 CONTRL AREA VENT SWGR RM SUP FAN FILTER ENCLOSURE	205248, SHT. 1	IPA 1	S	N/A	N/A		1CAV1-DMOP
1						100		N/A	N/A		1CAV2-DMOP
5600						CH Wtr Pmp Area		PASSIVE			
3	21	1WGE14	CC	WASTE EVAP CONDENSER	205231, SHT. 2	Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
5130						Waste Evap Rm		PASSIVE			
3	21	1WGE17	CC	WASTE EVAP VENT GAS CLR	205231, SHT. 2	Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
5128						1 Conc Fltr Rm		PASSIVE			

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USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	5	1WGE2	CC	NO. 11 WASTE GAS COMPRESSOR HX	205231, SHT. 2	Aux 1	S	N/A	N/A		
1						064		N/A	N/A		
5131						11 Waste Gas Cmpsr Rm		PASSIVE			
3	21	1WGE22	CC	WASTE EVAP SUB CLR	205231, SHT. 2	Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
5129						Waste Evap Rm		PASSIVE			
3	5	1WGE3	CC	NO. 12 WASTE GAS COMPRESSOR HX	205231, SHT. 2	Aux 1	S	N/A	N/A		
1						064		N/A	N/A		
5132						12 Waste Gas Cmpsr Rm		PASSIVE			
3	I	1WL222	CV	RCDT TO RWST	205239, SHT. 3	IPA 1	N/A	CLOSED	N/A		
1						078	1	CLOSED	N/A		
3049 1149 2151						Mech Pen Area SG BD Hx		PASSIVE			
3	I	1WR81	PR	1PR1 WTR TO PRT, CONT CHK VLV	205201, SHT. 1	NR	N/A	CLOSED	N/A		
1						NR		CLOSED	N/A		
2021						NR		PASSIVE			
1	18	1XA6552I	NI	ISOLATED SOURCE RANGE INDICATOR - CHANNEL "C"	601526	Aux 1	R	OPERABLE	1DIS1C5YA		
1						122		OPERABLE			
1302						1 Control Rm		ACTIVE			
1	18	1XA6553I	NI	ISOLATED POWER RANGE INDICATOR - CHANNEL "C"	601526	Aux 1	R	OPERABLE	1DIS1C5YA		
1						122		OPERABLE			
1301						1 Control Rm		ACTIVE			
2	18	1XA6536I	NI	ISOLATED SOURCE RANGE INDICATOR - CHANNEL "D"	601526	Aux 1	R	OPERABLE	1DIS1B11YA		
1						122		OPERABLE			
1306						1 Control Rm		ACTIVE			

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2 1 1304	18	1XA6557I	NI	ISOLATED POWER RANGE INDICATOR - CHANNEL "D"	601526	Aux 1 122 1 Control Rm	R	OPERABLE OPERABLE ACTIVE	1DIS1B11YA		
1 1 1300	18	1XA6560	NI	NEUTRON FLUX DETECTOR - CHANNEL "C"	601526	Cntmnt 1 081	N/A	OPERABLE OPERABLE ACTIVE		612178, 601002	1XA6553I 1XA6552I
2 1 1303	18	1XA6561	NI	NEUTRON FLUX DETECTOR - CHANNEL "D"	601526	Cntmnt 1 081	N/A	OPERABLE OPERABLE ACTIVE		612178 601002	1XA6557I 1XA6556I
1 1 8002	4	1XFR1A4DAX	EP	TRANSFORMER TO NO. 1A 460V VITAL BUS 1SWGR1AX	203003	Aux 1 084 460/230V Vital 125/250DC Bat	S	ENERG ENERG ACTIVE	1SWGR1AD		1SWGR1AD-1A4D
1 1 8003	4	1XFR1A4DBY	EP	TRANSFORMER TO NO. 1A 230V VITAL BUS 1SWGR1AY	203003	Aux 1 084 460/230V Vital 125/250DC Bat	S	ENERG ENERG ACTIVE	1SWGR1AD		1SWGR1AD-1A4D
2 1 8022	4	1XFR1B4DAX	EP	TRANSFORMER TO NO. 1B 460V VITAL BUS 1SWGR1BX	203003	Aux 1 084 460/230V Vital 125/250DC Bat	S	ENERG ENERG ACTIVE	1SWGR1BD		1SWGR1BD-1B4D
2 1 8023	4	1XFR1B4DBY	EP	TRANSFORMER TO NO. 1B 230V VITAL BUS 1SWGR1BY	203003	Aux 1 084 460/230V Vital 125/250DC Bat	S	ENERG ENERG ACTIVE	1SWGR1BD		1SWGR1BD-1B4D
3 1 8048	4	1XFR1C4DAX	EP	TRANSFORMER TO NO. 1C 460V VITAL BUS 1SWGR1CX	203003	Aux 1 084 460/230V Vital 125/250DC Bat	S	ENERG ENERG ACTIVE	1SWGR1CD		1SWGR1CD-1C4D

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SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3 / 1 / 8049	4	1XFR1C4DBY	EP	TRANSFORMER TO NO. 1C 230V VITAL BUS 1SWGR1CY	203003	Aux 1 / 084 / 4 KV Vital Bus & Bat Rm	S	ENERG / ENERG / ACTIVE	1SWGR1CD		1SWGR1CD-1C4D
1 / 5272A	18	203-1	CC	11 CC HEAT EXCHANGER INSTRUMENT PANEL		Aux 1 / 084 / 11 CC Hx Rm	S	ENERG / ENERG / ACTIVE	N/A / N/A		
1 / 9052	20	205-1	EP	11 AUX FEEDWATER PANEL 205		Aux 1 / 084 / 12 Aux Fd Pmp Rm	S	ENERG / ENERG / ACTIVE	N/A / N/A		
1 / 9053	20	206-1	EP	12 AUX FEEDWATER PANEL 206		Aux 1 / 084 / 12 Aux Fd Pmp Rm	S	ENERG / ENERG / ACTIVE	N/A / N/A		
1 / 1 / 9039	20	207-1	AF	13 AUX FEEDWATER PANEL		Aux 1 / 084 / 12 Aux Fd Pmp Rm	S	N/A / N/A / PASSIVE	N/A / N/A		
2 / 1 / 9003	20	216-1	CV	1 CVC CHG PMPS FL & PR INST PANEL		Aux 1 / 084 / Chrg Pmp Vlv Alley	S	N/A / N/A / PASSIVE	N/A / N/A		
1 / 5363A	20	229-1A	SW	SW CHRG PUMP RM COOLER FLOW INSTRUMENT PANEL		Aux 1 / 084 / Chrg Pmp Vlv Alley	S	ENERG / ENERG / ACTIVE	N/A / N/A		
1 / 5359A	20	229-1B	SW	SW CHRG PUMP RM COOLER FLOW INSTRUMENT PANEL		Aux 1 / 084 / Chrg Pmp Vlv Alley	S	ENERG / ENERG / ACTIVE	N/A / N/A		

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3	18	230-1	VH	1 AUX BLDG VENT SWGR RM INST PANEL		Aux 1	S	N/A	N/A		
1						084		N/A	N/A		
9004						460/230V Vital 125/250DC Bat		PASSIVE			
	20	32-1	EP	1 REACT PROT SOLID STATE PROT INTERFACE CAB NO. 32		Aux 1	S	ENERG	N/A		
1						122		ENERG	N/A		
9054						1 Control Rm		ACTIVE			
	18	325-1	EP	11 STM GEN DRN & BLDWN STM GEN BLDWN TK PANEL		IPA 1	N/A	N/A	N/A		
1						100	21	N/A	N/A		
9119						Stm Gen B/D Area		PASSIVE			
3	20	335-1	PR	1 REACT COOL PZR PROTECTION PANEL		Cntmnt 1	S	N/A	N/A		
1						100		N/A	N/A		
9005						Elevator Passage Area		PASSIVE			
	20	37-1	EP	1 REACT PROT SOLID STATE PROT TRAIN B OUTPUT CAB NO. 37		Aux 1	S	ENERG	N/A		
1						122		ENERG	N/A		
9055						1 Control Rm		ACTIVE			
3	20	378-1	SJ	1 SAFETY INJ RWST 230V AC, 1KW PANEL		Yard	S	N/A	N/A		
1						100		N/A	N/A		
9006						Fire Pmp/Fresh Water House		PASSIVE			
2	20	379-1	SJ	1 SAFETY INJ RWST 230V AC, 1KW PANEL		Yard	S	N/A	N/A		
1						100		N/A	N/A		
9007						1 RWST Area		PASSIVE			
	20	38-1	EP	1 REACT PROT SOLID STATE PROT TRAIN B INTERFACE CAB NO. 38		Aux 1	S	ENERG	N/A		
1						122		ENERG	N/A		
9056						1 Control Rm		ACTIVE			

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1	20	401-1	CC	1 CC SURGE TNK LVL INST PNL		Aux 1	S	N/A	N/A		
1						122		N/A	N/A		
9008						1 CC Surge Tnk Area		PASSIVE			
1	20	407-1	VH	1 CONTRL AREA VEN CONT RM AC CONT PNL		Aux 1	S	N/A	N/A		
1						122		N/A	N/A		
9009						CR A/C Rm		PASSIVE			
1	18	440-1A	VH	11 CNTMNT VENT FCU DAMPER CONTRL PNL		Cntmnt 1	S	N/A	N/A		
1						130		N/A	N/A		
9010						11 CFCU		PASSIVE			
1	18	440-1B	VH	12 CNTMNT VENT FCU DAMPER CONTRL PNL		Cntmnt 1	S	N/A	N/A		
1						130		N/A	N/A		
9011						12 CFCU		PASSIVE			
1	18	440-1C	VH	13 CNTMNT VENT FCU DAMPER CONTRL PNL		Cntmnt 1	S	N/A	N/A		
1						130		N/A	N/A		
9012						13 CFCU		PASSIVE			
1	18	440-1D	VH	14 CNTMNT VENT FCU DAMPER CONTRL PNL		Cntmnt 1	S	N/A	N/A		
1						130		N/A	N/A		
9013						14 CFCU		PASSIVE			
1	18	440-1E	VH	15 CNTMNT VENT FCU DAMPER CONTRL PNL		Cntmnt 1	S	N/A	N/A		
1						130		N/A	N/A		
9014						15 CFCU		PASSIVE			
2	18	444-1A	AF	11 S/G FEED & COND PNL NARROW RANGE 1		Cntmnt 1	S	N/A	N/A		
1						130		N/A	N/A		
9015						11 S/G Area		PASSIVE			

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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2OP 1 9016	18	444-1B	AF	11 S/G FEED & COND PNL NARROW RANGE 2		Cntmnt 1 130 11 S/G Area	S	N/A N/A PASSIVE	N/A N/A		
2OP 1 9017	18	444-1C	AF	11 S/G FEED & COND PNL NARROW RANGE 3		Cntmnt 1 130 11 S/G Area	S	N/A N/A PASSIVE	N/A N/A		
2OP 1 9018	18	444-1D	AF	12 S/G FEED & COND PNL NARROW RANGE 1		Cntmnt 1 130 12 S/G Area	S	N/A N/A PASSIVE	N/A N/A		
2OP 1 9019	18	444-1E	AF	12 S/G FEED & COND PNL NARROW RANGE 2		Cntmnt 1 130 12 S/G Area	S	N/A N/A PASSIVE	N/A N/A		
2 1 9020	18	444-1F	AF	12 S/G FEED & COND PNL NARROW RANGE 3		Cntmnt 1 130 12 S/G Area	S	N/A N/A PASSIVE	N/A N/A		
1 1 9021	18	444-1G	AF	13 S/G FEED & COND PNL NARROW RANGE 1		Cntmnt 1 130 13 S/G Area	S	N/A N/A PASSIVE	N/A N/A		
2OP 1 9022	18	444-1H	AF	13 S/G FEED & COND PNL NARROW RANGE 2		Cntmnt 1 130 13 S/G Area	S	N/A N/A PASSIVE	N/A N/A		
1OP 1 9023	18	444-1J	AF	13 S/G FEED & COND PNL NARROW RANGE 3		Cntmnt 1 130 13 S/G Area	S	N/A N/A PASSIVE	N/A N/A		

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1OP 1 9024	18	444-1K	AF	14 S/G FEED & COND PNL NARROW RANGE 1		Cntmnt 1 130 14 S/G Area	S	N/A N/A PASSIVE	N/A N/A		
1OP 1 9025	18	444-1L	AF	14 S/G FEED & COND PNL NARROW RANGE 2		Cntmnt 1 130 14 S/G Area	S	N/A N/A PASSIVE	N/A N/A		
1 1 9026	18	444-1M	AF	14 S/G FEED & COND PNL NARROW RANGE 3		Cntmnt 1 130 14 S/G Area	S	N/A N/A PASSIVE	N/A N/A		
1 9057	20	58-1	EP	1 CABINET AUX RELAY RACK		Aux 1 122 1 Control Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9058	20	59-1	EP	1 CABINET AUX RELAY RACK		Aux 1 122 1 Control Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 1 9028	20	684-1A	MS	11 MN STM & TRB BY PASS STM GEN PRESS CONTRL PNL		IPA 1 100 MS Pen Area	S	N/A N/A PASSIVE	N/A N/A		
2 1 9027	20	684-1B	MS	12 MN STM & TRB BY PASS STM GEN PRESS CONTRL PNL		OPA 1 100 MS Pen Area	S	N/A N/A PASSIVE	N/A N/A		
2OP 1 9029	20	684-1C	MS	13 MN STM & TRB BY PASS STM GEN PRESS CONTRL PNL		IPA 1 100 MS Pen Area	S	N/A N/A PASSIVE	N/A N/A		

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SALEM GENERAT[illegible] STATION - UNIT 1
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TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1OP 1 9030	20	684-1D	MS	14 MN STM & TRB BY PASS STM GEN PRESS CONTRL PNL		OPA 1 100 MS Pen Area	S	N/A N/A PASSIVE	N/A N/A		
1 1 9031	20	685-1A	MS	11 MN STM & TRB BY PASS STM GEN OUTLET HEAD PRESS CONTRL PNL		IPA 1 100 MS Pen Area	S	N/A N/A PASSIVE	N/A N/A		
2 1 9032	20	685-1B	MS	12 MN STM & TRB BY PASS STM GEN OUTLET HEAD PRESS CONTRL PNL		OPA 1 100 MS Pen Area	S	N/A N/A PASSIVE	N/A N/A		
2OP 1 9033	20	685-1C	MS	13 MN STM & TRB BY PASS STM GEN OUTLET HEAD PRESS CONTRL PNL		IPA 1 100 MS Pen Area	S	N/A N/A PASSIVE	N/A N/A		
1OP 1 9034	20	685-1D	MS	14 MN STM & TRB BY PASS STM GEN OUTLET HEAD PRESS CONTRL PNL		OPA 1 100 MS Pen Area	S	N/A N/A PASSIVE	N/A N/A		
1 1 9035	20	686-1A	MS	11 MN STM & TRB BY PASS STM GEN STM OUTLET HEAD PRESS CONTRL PNL		IPA 1 100 MS Pen Area	S	N/A N/A PASSIVE	N/A N/A		
2 1 9036	20	686-1B	MS	12 MN STM & TRB BY PASS STM GEN STM OUTLET HEAD PRESS CONTRL PNL		OPA 1 100 MS Pen Area	S	N/A N/A PASSIVE	N/A N/A		
2OP 1 9037	20	686-1C	MS	13 MN STM & TRB BY PASS STM GEN STM OUTLET HEAD PRESS CONTRL PNL		IPA 1 100 MS Pen Area	S	N/A N/A PASSIVE	N/A N/A		

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1OP	20	686-1D	MS	14 MN STM & TRB BY PASS STM GEN STM OUTLET HEAD PRESS CONTRL PNL		OPA 1	S	N/A	N/A		
1						100		N/A	N/A		
9038						MS Pen Area		PASSIVE			
	18	724-1D	EP	11 CONTROL AREA VENT EMERG SUPPLY FAN INSTRUMENT PANEL		Aux 1	N/A	N/A	N/A		
1						122	21	N/A	N/A		
9120						CR A/C Rm		PASSIVE			
	18	724-1E	EP	12 CONTROL AREA VENT EMERG SUPPLY FAN INSTRUMENT PANEL		Aux 1	S	N/A	N/A		
1						122		N/A	N/A		
9121						CR A/C Rm		PASSIVE			
	18	726-1A	EP	1 AUX BLDG VENT DIESEL GEN VENT DMPR CONTROL INSTRUMENT PANEL		Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
9122						1A D/G Rm		PASSIVE			
	18	726-1C	EP	1 AUX BLDG VENT DIESEL GEN VENT DMPR CONTROL INSTRUMENT PANEL		Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
9123						1B D/G Rm		PASSIVE			
	18	726-1D	EP	1 AUX BLDG VENT DIESEL GEN VENT DMPR CONTROL INSTRUMENT PANEL		Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
9124						1B D/G Rm		PASSIVE			
	18	726-1E	EP	1 AUX BLDG VENT DIESEL GEN VENT DMPR CONTROL INSTRUMENT PANEL		Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
9125						1C D/G Rm		PASSIVE			
	18	726-1F	EP	1 AUX BLDG VENT DIESEL GEN VENT DMPR CONTROL INSTRUMENT PANEL		Aux 1	S	N/A	N/A		
1						100		N/A	N/A		
9126						1C D/G Rm		PASSIVE			

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Print or Type Name/Title	Signature	Date	Print or Type Name/Title	Signature	Date
John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 9128	18	827-1A	EP	11 SW FCU INSTRUMENT PANEL		IPA 1 078 Mech Pen Area	S	N/A N/A PASSIVE	N/A N/A		
1 9129	18	827-1B	EP	12 SW FCU INSTRUMENT PANEL		IPA 1 078 S/G B/D Hx	S	N/A N/A PASSIVE	N/A N/A		
1 9130	18	827-1C	EP	14 SW FCU INSTRUMENT PANEL		IPA 1 078 S/G B/D Hx	S	N/A N/A PASSIVE	N/A N/A		
1 9131	18	827-1D	EP	13 SW FCU INSTRUMENT PANEL		IPA 1 078 Bit Rm Upper Lvl	S	N/A N/A PASSIVE	N/A N/A		
1 9132	18	827-1E	EP	15 SW FCU INSTRUMENT PANEL		IPA 1 078 Bit Rm Upper Lvl	S	N/A N/A PASSIVE	N/A N/A		
1 9133	18	835-1B	EP	12A/12B SRVC WTR COMP COOLING PANEL		Aux 1 084 12 CC Hx Rm	S	N/A N/A PASSIVE	N/A N/A		
1 9134	18	979-1A	EP	11 SW STRAINER PANEL		Yard 100 Srvc Wtr Bldg	S	N/A N/A PASSIVE	N/A N/A		
1 9135	18	979-1B	EP	12 SW STRAINER PANEL		Yard 100 Srvc Wtr Bldg	S	N/A N/A PASSIVE	N/A N/A		

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SALEM GENERAT[illegible] STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 9136	18	979-1C	EP	13 SW STRAINER PANEL		Yard 100 Srvc Wtr Bldg	S	N/A N/A PASSIVE	N/A N/A		
1 9137	18	979-1D	EP	14 SW STRAINER PANEL		Yard 100 Srvc Wtr Bldg	S	N/A N/A PASSIVE	N/A N/A		
1 9138	18	979-1E	EP	15 SW STRAINER PANEL		Yard 100 Srvc Wtr Bldg	S	N/A N/A PASSIVE	N/A N/A		
1 9139	18	979-1F	EP	16 SW STRAINER PANEL		Yard 100 Srvc Wtr Bldg	S	N/A N/A PASSIVE	N/A N/A		
1 1 8100	2	BKR-11ASD	EP	BREAKER FROM NORMAL STATION POWER TO 4160V NO. 1A VITAL BUS 1SWGR1AD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	CLOSED CLOSED/OPEN ACTIVE	1XFR11SD 1SWGR1ADC 1ADE		
2 1 8109	2	BKR-11BSD	EP	BREAKER FROM NORMAL STATION POWER TO 4160V NO. 1B VITAL BUS 1SWGR1BD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	CLOSED CLOSED/OPEN ACTIVE	1XFR11SD 1SWGR1BDC 1BDE		
3 1 8119	2	BKR-11CSD	EP	BREAKER FROM NORMAL STATION POWER TO 4160V NO. 1C VITAL BUS 1SWGR1CD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	CLOSED CLOSED/OPEN ACTIVE	1XFR11SD 1SWGR1CDC 1CDE		
1 1 8108	2	BKR-12ASD	EP	BREAKER FROM NORMAL STATION POWER TO 4160V NO. 1A VITAL BUS 1SWGR1AD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	CLOSED CLOSED/OPEN ACTIVE	1XFR12SD 1SWGR1ADC 1ADE		

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2 1 8118	2	BKR-12BSD	EP	BREAKER FROM NORMAL STATION POWER TO 4160V NO. 1B VITAL BUS 1SWGR1BD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	CLOSED CLOSED/OPEN ACTIVE	1XFR12SD 1SWGR1BDC 1BDE		
3 1 8126	2	BKR-12CSD	EP	BREAKER FROM NORMAL STATION POWER TO 4160V NO. 1C VITAL BUS 1SWGR1CD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	CLOSED CLOSED/OPEN ACTIVE	1XFR12SD 1SWGR1CDC 1CDE		
1 1 8107	2	BKR-1A10D	EP	BREAKER TO 11 COMPONENT COOLING PMP (1CCE2) 1SWGR1AD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	CLOSED/OPEN CLOSED/OPEN ACTIVE	1SWGR1AD 1SWGR1ADC 1ADE		
1 1 8129	2	BKR-1A13X	EP	BREAKER TO 11 CHILLER COMPRESSOR (1CHE7-MTRX) 1SWGR1AX	601231	Aux 1 084 460/230V Vital 125/250DC Bat	BR	CLOSED/OPEN CLOSED ACTIVE	1SWGR1AX 1SWGR1ADC		
1 1 8130	2	BKR-1A14X	EP	BREAKER TO 1EP 480V PRESSURIZER HEATER BUS 1SWGR1AX	601231	Aux 1 084 460/230V Vital 125/250DC Bat	BR	OPEN/CLOSED CLOSED/OPEN ACTIVE	1SWGR1AX 1SWGR1ADC 1ADE		
1 1 8101	2	BKR-1A1D	EP	BREAKER TO 11 AUX FEED PMP (1AFE4) 1SWGR1AD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	OPEN/CLOSED CLOSED ACTIVE	1SWGR1AD 1SWGR1ADC 1ADE		
1 1 8127	2	BKR-1A2X	EP	BREAKER TO 11 CONTAINMENT FAN (1VHE15) 1SWGR1AX	601231	Aux 1 084 460/230V Vital 125/250DC Bat	BR	OPEN/CLOSED CLOSED ACTIVE	1SWGR1AX 1ADE		
1 1 8102	2	BKR-1A3D	EP	BREAKER TO 15 SERVICE WATER PMP (1SWE5) 1SWGR1AD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	CLOSED/OPEN CLOSED ACTIVE	1SWGR1AD 1SWGR1ADC 1ADE		

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/12/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1	2	BKR-1A4D	EP	BREAKER TO TRANSFORMERS 1XFR1A4DAX AND 1XFR1A4DBY	203002	Aux 1	BR	CLOSED	1SWGR1AD		
1						064		CLOSED	1SWGR1ADC		
8103				1SWGR1AD		4 KV Vital Bus & Bat Rm		ACTIVE	1ADE		
1	2	BKR-1A7D	EP	BREAKER TO 11 RHR PMP (1RHE1)	203002	Aux 1	BR	OPEN	1SWGR1AD		
1						064		OPEN/CLOSED	1SWGR1ADC		
8105				1SWGR1AD		4 KV Vital Bus & Bat Rm		ACTIVE	1ADE		
1	2	BKR-1A7X	EP	BREAKER TO 13 CHARGING PMP (1CVE22)	601231	Aux 1	BR	CLOSED/OPEN	1SWGR1AX		
1						084		CLOSED	1SWGR1ADC		
8128				1SWGR1AX		460/230V Vital 125/250DC Bat		ACTIVE	1ADE		
1	2	BKR-1A8D	EP	BREAKER TO 16 SERVICE WATER PMP (1SWE6)	203002	Aux 1	BR	CLOSED/OPEN	1SWGR1AD		
1						064		CLOSED	1SWGR1ADC		
8106				1SWGR1AD		4 KV Vital Bus & Bat Rm		ACTIVE	1ADE		
1	2	BKR-1ADD	EP	BREAKER FROM 1A DIESEL GENERATOR (1DAE4-GEN1AD)	203002	Aux 1	BR	OPEN	1DAE4		
1						064		CLOSED	1SWGR1ADC		
8104				1SWGR1AD		4 KV Vital Bus & Bat Rm		ACTIVE	1ADE		
2	2	BKR-1B10D	EP	BREAKER TO 12 COMPONENT COOLING PMP (1CCE4)	203002	Aux 1	BR	CLOSED/OPEN	1SWGR1BD		
1						064		CLOSED/OPEN	1SWGR1BDC		
8117				1SWGR1BD		4 KV Vital Bus & Bat Rm		ACTIVE	1BDE		
2	2	BKR-1B13X	EP	BREAKER TO 12 CHILLER COMPRESSOR (1CHE8-MTRX)	601232	Aux 1	BR	CLOSED/OPEN	1SWGR1BX		
1						084		CLOSED	1SWGR1BDC		
8135				1SWGR1BX		460/230V Vital 125/250DC Bat		ACTIVE			
2	2	BKR-1B1D	EP	BREAKER TO 12 AUX FEED PMP (1AFE5)	203002	Aux 1	BR	OPEN/CLOSED	1SWGR1BD		
1						064		CLOSED	1SWGR1BDC		
8110				1SWGR1BD		4 KV Vital Bus & Bat Rm		ACTIVE	1BDE		

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
2 1 8132	2	BKR-1B2X	EP	BREAKER TO 12 CONTAINMENT FAN (1VHE16) 1SWGR1BX	601232	Aux 1 084 460/230V Vital 125/250DC Bat	BR	OPEN/CLOSED CLOSED ACTIVE	1SWGR1BX 1BDE		
2 1 8111	2	BKR-1B3D	EP	BREAKER TO 13 SERVICE WATER PMP (1SWE3) 1SWGR1BD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	CLOSED/OPEN CLOSED ACTIVE	1SWGR1BD 1SWGR1BDC 1BDE		
2 1 8112	2	BKR-1B4D	EP	BREAKER TO TRANSFORMERS 1XFR1B4DAX AND 1XFR1B4DBY 1SWGR1BD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	CLOSED CLOSED ACTIVE	1SWGR1BD 1SWGR1BDC 1BDE		
2 1 8133	2	BKR-1B6X	EP	BREAKER TO 14 CONTAINMENT FAN (1VHE18) 1SWGR1BX	601232	Aux 1 084 460/230V Vital 125/250DC Bat	BR	OPEN/CLOSED CLOSED ACTIVE	1SWGR1BX 1BDE		
2 1 8114	2	BKR-1B7D	EP	BREAKER TO 12 RHR PMP (1RHE2) 1SWGR1BD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	OPEN OPEN/CLOSED ACTIVE	1SWGR1BD 1SWGR1BDC 1BDE		
2 1 8115	2	BKR-1B8D	EP	BREAKER TO 14 SERVICE WATER PMP (1SWE4) 1SWGR1BD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	CLOSED/OPEN CLOSED ACTIVE	1SWGR1BD 1SWGR1BDC 1BDE		
2 1 8116	2	BKR-1B9D	EP	BREAKER TO 11 CHARGING PMP (1CVE20) 1SWGR1BD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	OPEN/CLOSED CLOSED ACTIVE	1SWGR1BD 1SWGR1BDC 1BDE		
2 1 8113	2	BKR-1BDD	EP	BREAKER FROM 1B DIESEL GENERATOR (1DAE23-GEN1BD) 1SWGR1BD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	OPEN CLOSED ACTIVE	1DAE23 1SWGR1BDC 1BDE		

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	2	BKR-1C10D	EP	BREAKER TO 13 COMPONENT COOLING PMP (1CCE3)	203002	Aux 1	BR	CLOSED/OPEN	1SWGR1CD		
1						064		CLOSED/OPEN	1SWGR1CDC		
8125				1SWGR1CD		4 KV Vital Bus & Bat Rm		ACTIVE	1CDE		
3	2	BKR-1C13X	EP	BREAKER TO 13 CHILLER COMPRESSOR (1CHE9-MTRX)	601233	Aux 1	BR	CLOSED/OPEN	1SWGR1CX		
1						084		CLOSED	1SWGR1CDC		
8139				1SWGR1CX		460/230V Vital 125/250DC Bat		ACTIVE			
3	2	BKR-1C23X	EP	BREAKER TO 1GP 480V PRESSURIZER HEATER BUS	601233	Aux 1	BR	OPEN/CLOSED	1SWGR1C9X		
1						084		CLOSED/OPEN	1SWGR1CDC		
8141				1SWGR1C9X		460/230V Vital 125/250DC Bat		ACTIVE	1CDE		
3	2	BKR-1C2X	EP	BREAKER TO 13 CONTAINMENT FAN (1VHE17)	601233	Aux 1	BR	OPEN/CLOSED	1SWGR1CX		
1						084		CLOSED	1CDE		
8136				1SWGR1CX		460/230V Vital 125/250DC Bat		ACTIVE			
3	2	BKR-1C3D	EP	BREAKER TO 11 SERVICE WATER PMP (1SWE1)	203002	Aux 1	BR	CLOSED/OPEN	1SWGR1CD		
1						064		CLOSED	1SWGR1CDC		
8120				1SWGR1CD		4 KV Vital Bus & Bat Rm		ACTIVE	1CDE		
3	2	BKR-1C4D	EP	BREAKER TO TRANSFORMERS 1XFR1C4DAX AND 1XFR1C4DBY	203002	Aux 1	BR	CLOSED	1SWGR1CD		
1						064		CLOSED	1SWGR1CDC		
8121				1SWGR1CD		4 KV Vital Bus & Bat Rm		ACTIVE	1CDE		
3	2	BKR-1C6X	EP	BREAKER TO 15 CONTAINMENT FAN (1VHE19)	601233	Aux 1	BR	OPEN/CLOSED	1SWGR1CX		
1						084		CLOSED	1CDE		
8137				1SWGR1CX		460/230V Vital 125/250DC Bat		ACTIVE			
3	2	BKR-1C8D	EP	BREAKER TO 12 SERVICE WATER PMP (1SWE2)	203002	Aux 1	BR	CLOSED/OPEN	1SWGR1CD		
1						064		CLOSED	1SWGR1CDC		
8123				1SWGR1CD		4 KV Vital Bus & Bat Rm		ACTIVE	1CDE		

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3 1 8124	2	BKR-1C9D	EP	BREAKER TO 12 CHARGING PMP (1CVE21) 1SWGR1CD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	OPEN/CLOSED CLOSED ACTIVE	1SWGR1CD 1SWGR1CDC 1CDE		
3 1 8138	2	BKR-1C9X	EP	BREAKER TO 1C 460V VITAL BUS EXTENSION (1SWGR1C9X) 1SWGR1CX	601233	Aux 1 084 460/230V Vital 125/250DC Bat	BR	CLOSED CLOSED ACTIVE	1SWGR1CX		
3 1 8122	2	BKR-1CDD	EP	BREAKER FROM 1C DIESEL GENERATOR (1DAE38-GEN1CD) 1SWGR1CD	203002	Aux 1 064 4 KV Vital Bus & Bat Rm	BR	OPEN CLOSED ACTIVE	1SWGR1CD 1SWGR1CDX 1CDE		
1 1 9059	20	EC-1A	EP	EXCITER CABINET - 1A		Aux 1 100 1A D/G Rm	S	ENERG ENERG ACTIVE	N/A N/A		
2 1 9060	20	EC-1B	EP	EXCITER CABINET - 1B		Aux 1 100 1B D/G Rm	S	ENERG ENERG ACTIVE	N/A N/A		
3 1 9061	20	EC-1C	EP	EXCITER CABINET - 1C		Aux 1 100 1C D/G Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 1 8054	1	I1101	EP	NO 1A SERV WTR INTAKE 230V VITAL CONTROL CENTER	207902	Yard 100 Srvc Wtr Bldg	S	ENERG ENERG ACTIVE	1SWGR1AY N/A		
2 1 8045	1	I1102	EP	NO 1B2 SERV WTR INTAKE 230V VITAL CONTROL CENTER	207903	Yard 100 Srvc Wtr Bldg	S	ENERG ENERG ACTIVE	1SWGR1BY N/A		

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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	1	I1103	EP	NO 1C SERV WTR INTAKE 230V VITAL CONTROL CENTER	207905	Yard	S	ENERG	1SWGR1CY		
1						100		ENERG	N/A		
8053						Srvc Wtr Bldg		ACTIVE			
1	1	I1104	EP	NO 1A DIESEL GENERATOR 230V VITAL CONTROL CENTER	207907	Aux 1	S	ENERG	1SWGR1AY		
1		1AY1DA				100		ENERG	N/A		
8006						1A D/G Control Area		ACTIVE			
2	1	I1105	EP	NO 1B DIESEL GENERATOR 230V VITAL CONTROL CENTER	207908	Aux 1	S	ENERG	1SWGR1BY		
1		1BY1DA				100		ENERG	N/A		
8044						1B D/G Control Area		ACTIVE			
3	1	I1106	EP	NO 1C DIESEL GENERATOR 230V VITAL CONTROL CENTER	207909	Aux 1	S	ENERG	1SWGR1CY		
1		1CY1DA				100		ENERG	N/A		
8055						1C D/G Control Area		ACTIVE			
1	1	I1107	EP	NO 1A EAST VALVES & MISC. 230V VITAL CONTROL CENTER	207931	IPA 1	S	ENERG	1SWGR1AY		
1		1AY2EP				078		ENERG	N/A		
8009						A, B, C East Valves CC		ACTIVE			
3	1	I1108	EP	NO 1C EAST VALVES & MISC. 230V VITAL CONTROL CENTER	207933	IPA 1	S	ENERG	1SWGR1CY		
1		1CY2EP				078		ENERG	N/A		
8057						A, B, C East Valves CC		ACTIVE			
2	1	I1109	EP	NO 1B WEST VALVES & MISC. 230V VITAL CONTROL CENTER	207911	Aux 1	S	ENERG	1SWGR1BY		
1						084		ENERG	N/A		
8029						Elec Contr Center		ACTIVE			
3	1	I1110	EP	NO 1C WEST VALVES & MISC. 230V VITAL CONTROL CENTER	207912	Aux 1	S	ENERG	1SWGR1CY		
1		1CY2AX				084		ENERG	N/A		
8058						12 Aux Fd Pmp Rm		ACTIVE			

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 1 8008	1	I1111	EP	NO 1A AIR COND 230V VITAL CONTROL CENTER	207914	Aux 1 122 CR A/C Rm	S	ENERG ENERG ACTIVE	1SWGR1AY N/A		
2 1 8027	1	I1112 1BY3AX	EP	NO 1B AIR COND 230V VITAL CONTROL CENTER	207915	Aux 1 122 Aux Bldg Sup Vent	S	ENERG ENERG ACTIVE	1SWGR1BY N/A		
2 1 8043	1	I1126	EP	NO 1B1 SERV WTR INTAKE 230V VITAL CONTROL CENTER	207904	Yard 100 Srvc Wtr Bldg	S	ENERG ENERG ACTIVE	1SWGR1BY N/A		
1 1 8007	1	I1131 1AY1EP	EP	NO 1A VENTILATION 230V VITAL CONTROL CENTER	207935	IPA 1 100 CH Wtr Pmp Area	S	ENERG ENERG ACTIVE	1SWGR1AY N/A		
2 1 8026	1	I1132 1BY1EP	EP	NO 1B VENTILATION 230V VITAL CONTROL CENTER	207936	IPA 1 100 CH Wtr Pmp Area	S	ENERG ENERG ACTIVE	1SWGR1BCY N/A		
3 1 8056	1	I1133 1CY1EP	EP	NO 1C VENTILATION 230V VITAL CONTROL CENTER	207937	IPA 1 100 CH Wtr Pmp Area	S	ENERG ENERG ACTIVE	1SWGR1CY N/A		
1 1 8010	1	I1136	EP	NO 1A WEST VALVES & MISC. 230V VITAL CONTROL CENTER	207910	Aux 1 084 Cor at Aux Fd Pmp Area	S	ENERG ENERG ACTIVE	1SWGR1AY N/A		
2 1 8028	1	I1137 1BY2EP	EP	NO 1B EAST VALVES & MISC. 230V VITAL CONTROL CENTER	207932	IPA 1 078 A, B, C East Valves CC	S	ENERG ENERG ACTIVE	1SWGR1BY N/A		

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
3	21	PANEL 309-1	CC	UNIT 1 SAMPLE COOLERS FOR PZR, RX COOLANT AND STM GENS	205231, SHT. 2	Aux 1	N/A	N/A	N/A		
1		PNL 309-1				113	23	N/A	N/A		
5115						Primary Sys Sample Rm		PASSIVE			
3	21	PANEL 309-2	CC	UNIT 2 SAMPLE COOLERS FOR PZR, RX COOLANT AND STM GENS	205231, SHT. 2	Aux 1	N/A	N/A	N/A		
1		PNL 309-2				113	23	N/A	N/A		
5116						Primary Sys Sample Rm		PASSIVE			
3	21	PANEL 312	CC	UNITS 1 & 2 SAMPLE COOLERS FOR STEAM GENERATORS	205231, SHT. 2	Aux 1	N/A	N/A	N/A		
1		PNL 312				113	23	N/A	N/A		
5117						Primary Sys Sample Rm		PASSIVE			
	20	RC11-3	EP	11 AUX CONTROL SYSTEM RELAY CABINET RC11-3		Aux 1	S	ENERG	N/A		
1						100		ENERG	N/A		
9068						1 Relay Rm		ACTIVE			
	20	RC11-4	EP	11 AUX CONTROL SYSTEM RELAY CABINET RC11-4		Aux 1	S	ENERG	N/A		
1						100		ENERG	N/A		
9069						1 Relay Rm		ACTIVE			
	20	RC11-5	EP	11 AUX CONTROL SYSTEM RELAY CABINET RC11-5		Aux 1	S	ENERG	N/A		
1						100		ENERG	N/A		
9070						1 Relay Rm		ACTIVE			
	20	RC11-6	EP	11 AUX CONTROL SYSTEM RELAY CABINET RC11-6		Aux 1	S	ENERG	N/A		
1						100		ENERG	N/A		
9071						1 Relay Rm		ACTIVE			
	20	RC11-7	EP	11 AUX CONTROL SYSTEM RELAY CABINET RC11-7		Aux 1	S	ENERG	N/A		
1						100		ENERG	N/A		
9072						1 Relay Rm		ACTIVE			

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 9073	20	RC12-3	EP	12 AUX CONTROL SYSTEM RELAY CABINET RC12-3		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9074	20	RC12-4	EP	12 AUX CONTROL SYSTEM RELAY CABINET RC12-4		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9075	20	RC12-5	EP	12 AUX CONTROL SYSTEM RELAY CABINET RC12-5		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9076	20	RC12-6	EP	12 AUX CONTROL SYSTEM RELAY CABINET RC12-6		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9077	20	RC12-7	EP	12 AUX CONTROL SYSTEM RELAY CABINET RC12-7		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9078	20	RC13-3	EP	13 AUX CONTROL SYSTEM RELAY CABINET RC13-3		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9079	20	RC13-4	EP	13 AUX CONTROL SYSTEM RELAY CABINET RC13-4		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9080	20	RC13-5	EP	13 AUX CONTROL SYSTEM RELAY CABINET RC13-5		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		

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John G. Connolly / Senior Engineer	JGC	5/11/95	Stephen P. Reichle / Technical Manager	SPR	5/11/95

SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 9081	20	RC13-6	EP	13 AUX CONTROL SYSTEM RELAY CABINET RC13-6		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9082	20	RC13-7	EP	13 AUX CONTROL SYSTEM RELAY CABINET RC13-7		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9083	20	RC14-3	EP	14 AUX CONTROL SYSTEM RELAY CABINET RC14-3		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9084	20	RC14-5	EP	14 AUX CONTROL SYSTEM RELAY CABINET RC14-5		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9085	20	RC14-6	EP	14 AUX CONTROL SYSTEM RELAY CABINET RC14-6		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9086	20	RC14-7	EP	14 AUX CONTROL SYSTEM RELAY CABINET RC14-7		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9087	20	RC15-3	EP	15 AUX CONTROL SYSTEM RELAY CABINET RC15-3		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9088	20	RC15-4	EP	15 AUX CONTROL SYSTEM RELAY CABINET RC15-4		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
1 9089	20	RC15-6	EP	15 AUX CONTROL SYSTEM RELAY CABINET RC15-6		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9090	20	RC15-7	EP	15 AUX CONTROL SYSTEM RELAY CABINET RC15-7		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9091	20	RC16-5	EP	16 AUX CONTROL SYSTEM RELAY CABINET RC16-5		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9092	20	RC16-6	EP	16 AUX CONTROL SYSTEM RELAY CABINET RC16-6		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9093	20	RC16-7	EP	16 AUX CONTROL SYSTEM RELAY CABINET RC16-7		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9093A	20	RC17-7	EP	17 AUX CONTROL SYSTEM RELAY CABINET RC17-7		Aux 1 100 1 Relay Rm	N/A	ENERG ENERG ACTIVE	N/A N/A		
1 9094	20	RC18-4	EP	18 AUX CONTROL SYSTEM RELAY CABINET RC18-4		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		
1 9095	20	RC18-5	EP	18 AUX CONTROL SYSTEM RELAY CABINET RC18-5		Aux 1 100 1 Relay Rm	S	ENERG ENERG ACTIVE	N/A N/A		

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SALEM GENERATING STATION - UNIT 1
USI A-46 PROJECT
SAFE SHUTDOWN EQUIPMENT LIST (SSEL)
SORTED BY EQUIPMENT ID

TRAIN UNIT LINE NOS	EQ CL	EQUIPMENT ID NUMBER LOCAL ID	SYSTEM	EQUIP DESCRIPTION ROB COMPONENT NO.	DRAWING NUMBER	BUILDING ELEVATION LOCATION	EVAL NOTES	NORM STATE REQD STATE EQ FUNCTION	MOTIVE PWR CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS
	20	RC18-6	EP	18 AUX CONTROL SYSTEM RELAY CABINET RC18-6		Aux 1	S	ENERG	N/A		
1						100		ENERG	N/A		
9096						1 Relay Rm		ACTIVE			
1	20	SEC-1A	EP	SAFEGUARDS EMERGENCY CABINET - 1A	205802	Aux 1	S	ENERG	NR		
1						100		ENERG	NR		
9097						1 Relay Rm		ACTIVE			
1	20	SEC-1B	EP	SAFEGUARDS EMERGENCY CABINET - 1B	205802	Aux 1	S	ENERG	NR		
1						100		ENERG	NR		
9098						1 Relay Rm		ACTIVE			
1	20	SEC-1C	EP	SAFEGUARDS EMERGENCY CABINET - 1C	205802	Aux 1	S	ENERG	NR		
1						100		ENERG	NR		
9099						1 Relay Rm		ACTIVE			

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SALEM GENERATING STATION - UNIT 1
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TRAIN / UNIT / LINE NOS	EQ CL	EQUIPMENT ID NUMBER / LOCAL ID	SYSTEM	EQUIP DESCRIPTION / ROB COMPONENT NO.	DRAWING NUMBER	BUILDING / ELEVATION / LOCATION	EVAL / NOTES	NORM STATE / REQD STATE / EQ FUNCTION	MOTIVE PWR / CONTROL PWR	SUPPORTING SYSTEM DRAWINGS	REQUIRED SUPPORT SYSTEMS

NOTES:

1. This component should be designated Train 2 for Reactor Pressure Control.
2. This component should be designated Train 2OP for Reactor Pressure Control.
3. This valve will need to be manually opened if required.
4. Component needs to be able to bleed air from 1CV55 so that it can fail open if the valves control signal and/or air supply is lost.
5. Valve may need to be closed if 1PR1 sticks open.
6. Valve may need to be closed if 1PR2 sticks open.
7. Component required for Pressure Boundary only.
8. Valve operates normally until tanks bleed down then fails open.
9. Pneumatically controlled valve.
10. Valve Locked Out.
11. Fails As-Is. Can be manually operated if necessary.
12. Valve is physically open 30% when CFCU is at low speed and is 100% open when CFCU is at high speed.
13. Valve fails open on loss of air. Valve can be manually closed if necessary to reduce the amount of divergent flow.
14. Fails As-Is on loss of air.
15. Damper will have to be manually opened on loss of control air.
16. No backup valve identified to compensate for a single failure. Line isolates leakoff from No. 1 Seal on all four RCP's.
17. SV mounted on wall locally.
18. These valves are "Key-Locked" open in the Control Room.
19. Valve is manually closed if necessary to isolate S/G blowdown line.
20. Walkdowns determined that these components are no longer installed in the field.
21. Component contains SV which has been determined to be rugged by SRT. No. walkdown required.
22. SEWS was prepared for lube oil cooler 1SJE100 and 1SJE101 instead of for 1SJE2 and 1SJE3.
23. Seismic Review Team (SRT) determined that the component is not required per GIP criteria.

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ATTACHMENT 1B – SALEM UNIT 1 "BASE LIST 2", COMPONENTS ASSOCIATED WITH SPENT FUEL POOL

Attachment 1B - Salem Unit 1- Base List 2 - Components Associated With Spent Fuel Pool

Functional location (Tag Number)	Description	Catalog profile	SEISMIC CLASS
S1460-1BX1AX14X	12 SFP PP	NU-BKR	Seismic Class 1 (I)
S1CC -1CC206	SFP HX CC VENT	NU-VLV	Seismic Class 1 (I)
S1CC -1CC243	SFP HX CC INLET DRN	NU-VLV	Seismic Class 1 (I)
S1CC -1CC32	SFP HX CC INLET VALVE	NU-VLV	Seismic Class 1 (I)
S1CC -1CC33	SFP HX CC DRN	NU-VLV	Seismic Class 1 (I)
S1CC -1CC34	1 CC SFP HX OUTLET RELIEF VLV	NU-SRV	Seismic Class 1 (I)
S1CC -1CC35	SFP HX CC FLOW TAP	NU-RTVL	Seismic Class 1 (I)
S1CC -1CC36	SFP HX CC FLOW TAP	NU-RTVL	Seismic Class 1 (I)
S1CC -1CC37	SFP HX CC FLOW CONTROL VALVE	NU-VLV	Seismic Class 1 (I)
S1CC -1CC38	SFP HX CC OUTLET VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -11SF2	SFP PMP PRESS TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -11SF3	SFP PUMP VENT	NU-VLV	Seismic Class 1 (I)
S1SF -11SF4	SFP PUMP DRN	NU-VLV	Seismic Class 1 (I)
S1SF -11SF5	SFP PMP PRESS TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -11SF67	SFP PUMP INLET VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -11SF68	SFP PUMP OUTLET VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -11SF72	SFP PMP PURGE V	NU-VLV	Seismic Class 1 (I)
S1SF -12SF2	SFP PMP PRESS TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -12SF3	SFP PUMP VENT	NU-VLV	Seismic Class 1 (I)
S1SF -12SF4	SFP PUMP DRN	NU-VLV	Seismic Class 1 (I)
S1SF -12SF5	SFP PMP PRESS TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -12SF67	SFP PUMP INLET VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -12SF68	SFP PUMP OUTLET VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -12SF72	SFP PMP PURGE V	NU-VLV	Seismic Class 1 (I)
S1SF -1F2088	1 SPNT FUEL CLG WATER PMP DISCHARGE FL O	NU-ORIFI	Seismic Class 1 (I)
S1SF -1FE656	1 SPNT FUEL CLG PIT WATER OUTLET FL ORIF	NU-ORIFI	Seismic Class 1 (I)
S1SF -1FI656	1 SPNT FUEL CLG PIT WATER OUTLET FL LOCA	NU-IND	Seismic Class 1 (I)
S1SF -1FL2087	1 SPNT FUEL CLG PMP DISCHARGE FL LOCAL I	NU-IND	Seismic Class 1 (I)
S1SF -1PEN66	1 SPNT FUEL CLG REFUEL CAVITY OUT TO REF	NU-PENM	Seismic Class 1 (I)
S1SF -1PI652	11 SPNT FUEL CLG PIT PMP DISCH PR LOCAL	NU-IND	Seismic Class 1 (I)
S1SF -1PI654	1 SPNT FUEL PIT FILTER OUTLET	NU-IND	Seismic Class 1 (I)
S1SF -1PI655	1 SPNT FUEL PIT FILTER INLET	NU-IND	Seismic Class 1 (I)
S1SF -1PI657	11 SPNT FUEL CLG PIT PMP SUCTION PR LOCA	NU-IND	Seismic Class 1 (I)
S1SF -1PI672	1 REFUELING WTR PURIFICATION PMP SUCTION	NU-IND	Seismic Class 1 (I)
S1SF -1PI674A	1 SPNT FUEL CLG WATER PURIFICATION FILTE	NU-IND	Seismic Class 1 (I)
S1SF -1PI674B	1 SPNT FUEL CLG WATER PURIFICATION FILTE	NU-IND	Seismic Class 1 (I)
S1SF -1PI675	12 SPNT FUEL CLG PIT PMP DISCHARGE PR LO	NU-IND	Seismic Class 1 (I)
S1SF -1PI676	12 SPNT FUEL CLG PIT PMP SUCTION PR LOCA	NU-IND	Seismic Class 1 (I)
S1SF -1PL6396	1 SPNT FUEL CLG PIT REFUELING WATER PR L	NU-IND	Seismic Class 1 (I)
S1SF -1S55B	1 SPNT FUEL CLG 1S55B SPENT FUEL COOLING	NU-PIPE	Seismic Class 1 (I)
S1SF -1S55C	1 SPNT FUEL CLG 1S55C SPENT FUEL COOLING	NU-PIPE	Seismic Class 1 (I)
S1SF -1SF10	SFP DM INLET SAMP V	NU-RTVL	Seismic Class 1 (I)
S1SF -1SF108	SPT FUEL CLG CROSS TIE ISO VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -1SF109	SPT FUEL CRS TIE RTN LN ISOL VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -1SF11	SFP DM INLET VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -1SF110	SPT FUEL CLG CRS TIE RTN LN DR	NU-VLV	Seismic Class 1 (I)
S1SF -1SF111	SPT FUEL CLG CRS TIE DRN VLV	NU-VLV	Seismic Class 1 (I)

Attachment 1B - Salem Unit 1- Base List 2 - Components Associated With Spent Fuel Pool

Functional location (Tag Number)	Description	Catalog profile	SEISMIC CLASS
S1SF -1SF112	SPT FUEL CLG CROSS TIE VENT V	NU-VLV	Seismic Class 1 (I)
S1SF -1SF113	1&2 SPT FUEL CLG CRS TIE VENT	NU-VLV	Seismic Class 1 (I)
S1SF -1SF12	SFP DM OUTLET VALVE TO SFP	NU-VLV	Seismic Class 1 (I)
S1SF -1SF13	SFP FILT INLET VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -1SF14	SFP FILT PRESS TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -1SF15	SFP FILT VENT	NU-VLV	Seismic Class 1 (I)
S1SF -1SF16	SFP FILT DRN	NU-VLV	Seismic Class 1 (I)
S1SF -1SF17	SFP FILT PRESS TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -1SF18	SFP FILTER OUTLET VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -1SF19	SFP DM FLOW TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -1SF20	SFP DM FLOW TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -1SF22	RWPP SUCT V FUEL X-FER CANAL	NU-VLV	Seismic Class 1 (I)
S1SF -1SF25	RWPP DR V	NU-VLV	Seismic Class 1 (I)
S1SF -1SF27	1 SPNT FUEL CLG REFUEL WTR PURIF PMP DIS	NU-CKVL	Seismic Class 1 (I)
S1SF -1SF28	RWPP PRESS TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -1SF29	RWPP DISCH VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -1SF30	RWPF VENT	NU-VLV	Seismic Class 1 (I)
S1SF -1SF31	RWPF DRN	NU-VLV	Seismic Class 1 (I)
S1SF -1SF32	RW RET PRESS TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -1SF33	RW RET SAMP V	NU-RTVL	Seismic Class 1 (I)
S1SF -1SF34	1 SPNT FUEL CLG REFUEL WTR PURIFICATION	NU-CKVL	Seismic Class 1 (I)
S1SF -1SF35	RWPF OUTLET VALVE TO RWST	NU-VLV	Seismic Class 1 (I)
S1SF -1SF36	RWPF OUTLET V TO XFR CANAL	NU-VLV	Seismic Class 1 (I)
S1SF -1SF37	RWPP TO SFP DM	NU-VLV	Seismic Class 1 (I)
S1SF -1SF38	SFP DM OUTLET VALVE TO RWPF	NU-VLV	Seismic Class 1 (I)
S1SF -1SF39	SFP DEMIN BYPASS VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -1SF40	SFP DM RESIN FILL V	NU-VLV	Seismic Class 1 (I)
S1SF -1SF41	SFP DM BKFLSH OUTLET V	NU-VLV	Seismic Class 1 (I)
S1SF -1SF42	SFP DM RESIN DR V	NU-VLV	Seismic Class 1 (I)
S1SF -1SF43	SFP DM DR V	NU-VLV	Seismic Class 1 (I)
S1SF -1SF44	SFP DM PRI WTR VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -1SF58	DM M/U VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -1SF59	SFP FILT OUTLET SAMP VALVE	NU-RTVL	Seismic Class 1 (I)
S1SF -1SF6	SF CLG TO HUT	NU-VLV	Seismic Class 1 (I)
S1SF -1SF60	RWPP DM FLOW TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -1SF61	RWPP DM FLOW TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -1SF64	SFP HX VENT	NU-VLV	Seismic Class 1 (I)
S1SF -1SF65	SF XFR POOL FILL V	NU-VLV	Seismic Class 1 (I)
S1SF -1SF69	RWPP PRESS TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -1SF71	SFP FILL V TO HUT	NU-VLV	Seismic Class 1 (I)
S1SF -1SF73	FROM REF CANAL TEST CONN	NU-VLV	Seismic Class 1 (I)
S1SF -1SF74	1 SPNT FUEL CLG REFUEL WTR PURIF PMP INL	NU-CKVL	Seismic Class 1 (I)
S1SF -1SF75	RWPP DISCH PRESS TAP	NU-RTVL	Seismic Class 1 (I)
S1SF -1SF76	TO REF CANAL TEST CONN	NU-VLV	Seismic Class 1 (I)
S1SF -1SF77	REF CANAL SUCT DRN	NU-VLV	Seismic Class 1 (I)
S1SF -1SF78	REF CANAL SUCT DR V	NU-VLV	Seismic Class 1 (I)
S1SF -1SF8	SFP HX DRN	NU-VLV	Seismic Class 1 (I)

Attachment 1B - Salem Unit 1- Base List 2 - Components Associated With Spent Fuel Pool

Functional location (Tag Number)	Description	Catalog profile	SEISMIC CLASS
S1SF -1SF80	RWPF INLET DR V	NU-VLV	Seismic Class 1 (I)
S1SF -1SF81	SFP DM BKFLSH VENT	NU-VLV	Seismic Class 1 (I)
S1SF -1SF82	SFP DM INLET VENT	NU-VLV	Seismic Class 1 (I)
S1SF -1SF83	SFP FILT INLET DR V	NU-VLV	Seismic Class 1 (I)
S1SF -1SF84	SFP PMPS INLET DR V	NU-VLV	Seismic Class 1 (I)
S1SF -1SF85	SFP PMPS INLET VENT	NU-VLV	Seismic Class 1 (I)
S1SF -1SF86	SFP INLET VENT	NU-VLV	Seismic Class 1 (I)
S1SF -1SF87	RWPP TO SF DM DR V	NU-VLV	Seismic Class 1 (I)
S1SF -1SF89	REF CANAL SUCT VENT	NU-VLV	Seismic Class 1 (I)
S1SF -1SF9	SFP HX OUTLET VLV	NU-VLV	Seismic Class 1 (I)
S1SF -1SF90	REF CANAL SUCT VENT	NU-VLV	Seismic Class 1 (I)
S1SF -1SF900	SF HEAT EXCH INLET VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -1SF901	SF HEAT EXCH OUTLET VALVE	NU-VLV	Seismic Class 1 (I)
S1SF -1SF91	SFP FILT OUTLET DR V	NU-VLV	Seismic Class 1 (I)
S1SF -1SF93	RWPP TO SF DM VENT	NU-VLV	Seismic Class 1 (I)
S1SF -1SF94	SFP PMP TO SF DM DR V	NU-VLV	Seismic Class 1 (I)
S1SF -1SFE1	1 SPNT FUEL CLG REFUEL WTR PURIF PMP	NU-PMP	Seismic Class 1 (I)
S1SF -1SFE12	1 SPNT FUEL CLG PIT HT EXCHG	NU-1HX	Seismic Class 1 (I)
S1SF -1SFE17	UNIT 1 SPENT FUEL PIT	NU-MISCM	Seismic Class 1 (I)
S1SF -1SFE2	1 SPNT FUEL CLG PIT DEMINERALIZER	NU-IX	Seismic Class 1 (I)
S1SF -1SFE3	1 SPNT FUEL CLG REFUEL WTR PURIF FLTR	NU-STRM	Seismic Class 1 (I)
S1SF -1SFE4	1 SPNT FUEL CLG PIT FILTER	NU-STRM	Seismic Class 1 (I)
S1SF -1SFE5	11 SPNT FUEL CLG PMP	NU-PMP	Seismic Class 1 (I)
S1SF -1SFE5-MTRX	11 SPENT FUEL PIT PMP MTR	NU-MTRE	Seismic Class 1 (I)
S1SF -1SFE6	12 SPNT FUEL CLG PMP	NU-PMP	Seismic Class 1 (I)
S1SF -1SFE6-MTRX	12 SPENT FUEL PIT PMP MTR	NU-MTRE	Seismic Class 1 (I)
S1SF -1SW13732	11 SPNT FUEL CLG FUEL PIT PMP LOCAL CTL	NU-SW	Seismic Class 1 (I)
S1SF -1SW13733	12 SPNT FUEL CLG FUEL PIT PMP LOCAL CTL	NU-SW	Seismic Class 1 (I)
S1SF -1TI653	1 SPNT FUEL CLG PIT HEAT EXCHANGER TM LO	NU-IND	Seismic Class 1 (I)
S1SJ -1SJ319	RWST TST CON (SFP EMER FD CON)	NU-VLV	Seismic Class 1 (I)

ATTACHMENT 2 – SEISMIC WALKDOWN EQUIPMENT LIST (SWEL)

Salem Unit 1 - Seismic Walkdown Equipment List
(SWEL)
(Sorted by EQ. Class)

No	AWB #	Comp. ID	System	EQ. Class	Component Description	Bldg.	Elev.	Room	Risk Significant (Y/N/NA)	Safety Function	New or Replaced	IPEEE Enhanced	Anchored to Concrete or Structure (Y=1/N=0)	Notes	
1	S1-01	1SWE7	SW	0	11 SW PMP Disch Strainer	SWIS	90	SWIS Bay 1		3,4			1/Verif.		
2	S1-05	1LL6229	CH	0	Sight Glass-1 CH WTR Exp Tank	IPA 1	100	CH WTR Pmp Area		1,2,3,4,5			0		
3	S1-07	11DA6C	DA	0	13A Diesel Start Air RCVR Inlet CHK VLV	IPA 1	100	1C D/G Rm		1,2,3,4,5			0		
4	S1-07	1DA36C	DA	0	1C DG Lube Oil Heater Disch CHK VLV Valve	Aux 1	100	1C D/G Rm		1,2,3,4,5	Y		0		
5	S1-07	1DA49C	DA	0	1C DG JKT WTR TEMP REG VLV	Aux 1	100	1C D/G Rm		1,2,3,4,5	Y		0		
6	S1-07	1DAE91	DA	0	No. 1 Start Air Motor-1C Diesel Gen	Aux 1	100	1C D/G Rm		1,2,3,4,5	Y		0		
7	S1-07	1DAE95	DA	0	1C DG Lube Oil Filter	Aux 1	100	1C D/G Rm		1,2,3,4,5	Y		0		
8	S1-08	1CVE45	CV	0	Pulsation Dampener	Aux 1	84	13 Chrg Pmp Rm		1,2,3,4			0		
9	S1-09	11RH18-CONV	RH	0	E/P CONV For 11RH18	Aux 1	45	11 RHR Pmp Rm		3,4			1		
10	S1-22	1SF37	SF	0	RWPP - SF DM	Aux 1	100	Ion Exch Rm/DM Alley		3,4			0	(1)	
11	S1-24	1CV174	CV	0	BA Blender Byp V	Aux 1	100	Rm by BA XF Pmps		1,3			0		
12	S1-31	1SWE46-MTRY	SW	0	15 Traveling WTR Screen MTR	SWIS	133	SRV Wtr Bldg	Y	3,4	Y		1		
13	S1-39	1VHE19-MTRX	VH	0	15 CFCU MTR	Cont'nt 1	130	15CFCU		5			1	Defer to RFO	R2
14	S1-40	11SJ64	CV	0	11 SI PMP Min Flow Check VLV	Aux 1	84	11 SI Pmp Rm		3,4			0		
15	S1-46	1SF74	SF	0	1 SPNT FUEL CLG REFUEL CANAL TO PURIF PM	Aux 1	84	Main Corridor		3,4			0	(1)	
16	S1-28	14GB3	GB	0	14 S/G Blowdown Outlet HDR Gate VLV	Cont'nt 1	78	Cor at Elevator		5			0	Defer to RFO	
17	S1-04	I1133	EP	1	No.1C Ventilation 230V Vital Control Center	IPA 1	100	CH WTR Pmp Area	Y	1,2,3,4,5			1		
18	S1-30	I1103	EP	1	No. 1C Serv WTR Intake 230V Vital Control Center	SWIS	100	Srvc Wtr Bldg		3,4			1	Defer to RFO	
19	S1-15	1SWGR1CY	EP	2	No. 1C 230V Vital Bus	Aux 1	84	460/230 Vital 125/250DC Bat	Y	1,2,3,4,5			1	Defer to RFO	
20	S1-15	BKR-1C2X	EP	2	Breaker to 13 Containment Fan (1VHE17)	Aux 1	84	460/230 Vital 125/250DC Bat		5			0	Defer to RFO	R2
21	S1-36	1SWGR1C9X	EP	2	No. 1C 460V Vital Bus Extension	Aux 1	64	4 KV Vital Bus & Bat Rm	Y	1,2,3,4,5			1/Verif.	Defer to RFO	
22	S1-36	BKR1C10D	EP	2	Breaker to 13 component cooling pump (1CCEA)	Aux 1	64	4 KV Vital Bus & Bat Rm		3.4			1	Defer to RFO	R3
23	S1-36	1SWGR1CD	EP	3	No. 1C 4160V Vital Bus	Aux 1	64	4 KV Vital Bus & Bat Rm	Y	1,2,3,4,5			1	Defer to RFO	
25	S1-15	1XFR1C4DBY	EP	4	Transformer to No. 1C 230V Vital Bus 1SWGR1CY	Aux 1	84	460/230 Vital 125/250DC Bat	Y	1,2,3,4,5			1	Defer to RFO	

Salem Unit 1 - Seismic Walkdown Equipment List
(SWEL)
(Sorted by EQ. Class)

No	AWB #	Comp. ID	System	EQ. Class	Component Description	Bldg.	Elev.	Room	Risk Significant (Y/N/NA)	Safety Function	New or Replaced	IPEEE Enhanced	Anchored to Concrete or Structure (Y=1/N=0)	Notes
24	S1-15	1XFR1C4DAX	EP	4	Transformer to No. 1C 460V Vital Bus 1SWGR1CX	Aux 1	84	460/230 Vital 125/250DC Bat	Y	1,2,3,4,5			1	Defer to RFO
26	S1-04	1CHE19	SW	5	13 CH CNDSR Recirc Pump	IPA 1	100	CH WTR Pmp Area		1,2,3,4,5			1	
27	S1-04	1CHE5	CH	5	11 Chiller Water PMP	IPA 1	100	CH WTR Pmp Area		1,2,3,4,5			1	
28	S1-07	1DFE32	DF	5	1C Fuel Oil (Engine Driven) Booster Pump	Aux 1	100	1C D/G Rm	Y	1,2,3,4,5			0	
29	S1-08	1CVE22	CV	5	CHG PMP Centrifugal	Aux 1	84	13 Chrg Pmp Rm		1,2,3,4			1/Verif.	
30	S1-10	1MSE3	MS	5	13 AF PMP TURB	Aux 1	84	13 Aux Fd Pump Rm		2,4			1/Verif.	
31	S1-11	1AFE5	AF	5	12 Aux Feed Pump	Aux 1	84	12 Aux Fd Pump Rm	Y	2,4			1/Verif.	
32	S1-16	1CCE2	CC	5	CC Pump No. 11	Aux 1	84	11 CC Pmp Rm	Y	3.4			1/Verif.	
33	S1-40	1SJE2	SJ	5	11 Safety Injection Pump	Aux 1	84	11 SI Pmp Rm	Y	3,4			1/Verif.	
34	S1-01	1SWE1	SW	6	11 Service Water Pump	SWIS	90	SWIS Bay 1	Y	3,4	Y		1/Verif.	
35	S1-01	1SWE2	SW	6	12 Service Water Pump	SWIS	90	SWIS Bay 1	Y	3,4	Y		1/Verif.	
36	S1-01	1SW308	SW	7	SW HDR Press Contr Reg Valve	SWIS	90	SWIS Bay 1		3,4			0	
37	S1-03	14GB4	GB	7	14 S/G Blowdown ISO VLV	IPA 1	78	Mech Pen Area	Y	5			0	
38	S1-04	13SW102	SW	7	CH CNDSR SW Outlet VLV	IPA 1	100	CH WTR Pmp Area		1,2,3,4,5	Y		0	
39	S1-04	13SW92	SW	7	CH CNDSR SW Control VLV	IPA 1	100	CH WTR Pmp Area		1,2,3,4,5	Y		0	
40	S1-09	11RH18	RH	7	RHR HX Flow CONT VLV	Aux 1	45	11 RHR Pmp Rm		3,4			0	
41	S1-10	11AF11	AF	7	Aux Feed-S/G Level Control Valve	Aux 1	84	13 Aux Fd Pump Rm		2,4			0	
42	S1-16	11SW127	SW	7	11 CC HX SW Outlet Control VLV	Aux 1	84	11 CC Pmp Rm		3,4			0	
43	S1-27	14MS18	MS	7	MS Stop Bypass VLV	OPA 1	100	MS Pen Area		2			0	
44	S1-29	1CV114	RC	7	RCP Seal BYPASS Stop VLV	Cont'nt 1	78	Cor at Elevator		3,			0	Defer to RFO
45	S1-33	1CV55	CV	7	Cent CHG PMP FCV	Aux 1	84	Chrg Pmp Vlv Alley	Y	1,2,3,4			0	
46	S1-48	12MS10	MS	7	MS Power Relief VLV	OPA 1	100	MS Pen Area		2			0	
47	S1-01	11SW17	SW	8	SW PMP Disch HDR X-Over MOV	SWIS	90	SWIS Bay 1		3,4	Y		0	
48	S1-01	12SW20	SW	8	NUC HDR SUP MOV	SWIS	90	SWIS Bay 1		3,4	Y		0	

Salem Unit 1 - Seismic Walkdown Equipment List
(SWEL)
(Sorted by EQ. Class)

No	AWB #	Comp. ID	System	EQ. Class	Component Description	Bldg.	Elev.	Room	Risk Significant (Y/N/NA)	Safety Function	New or Replaced	IPEEE Enhanced	Anchored to Concrete or Structure (Y=1/N=0)	Notes
49	S1-01	1SV260	SW	8	SV for SW STR B/D Cont VLV	SWIS	90	SWIS Bay 1		3,4	Y		0	
50	S1-06	11SW22	SW	8	NUC HDR Inlet VLV	IPA 1	78	SW Piping Rm (3)		3,4	Y		0	
51	S1-07	11DA14C	DA	8	1C Diesel Start Air Motor Sol Valve	Aux 1	100	1C D/G Rm		1,2,3,4,5	Y		0	
52	S1-09	11RH29	RH	8	RHR PMP Min Flow VLV	Aux 1	45	11 RHR Pmp Rm		3,4			0	
53	S1-10	1MS52	MS	8	13 AF PMP TURB Trip VLV	Aux 1	84	13 Aux Fd Pump Rm		2,4			0	
54	S1-16	11CC3	CC	8	11-13 Header X-Over VLV	Aux 1	84	11 CC Pmp Rm		3.4			0	
55	S1-24	1CV40	CV	8	VCT Outlet Stop VLV	Aux 1	100	Rm by BA XF Pmps		1,2,3,4			1/Verif.	
56	S1-26	13BF22	AF	8	11 SG FW Stop Check ISO Valve (MOV)	IPA 1	100	MS Pen Area		2			0	
57	S1-28	1SV442	CV	8	SV for 1CV114	Cont'nt 1	78	Coridor at 13 Accumulator		3			0	Defer to RFO
58	S1-41	11CS2	CV	8	11 CS PMP MOT OP Discg VLV	Aux 1	84	11 Cont Spray Pmp		3	Y		0	
59	S1-42	11SJ54	SJ	8	ACCUM Outlet Valve	Cont'nt 1	78	11 Accumulator		3			0	Defer to RFO
60	S1-50	1SV709	GB	8	SV For AO 14GB4	IPA 1	100	Stm Gen B/D Area		5			1	
61	S1-20	1VHE27	VH	9	1C D/G Area Supply Fan	Aux 1	122	1C D/G Rm	Y	1,2,3,4,5			1/Verif.	
62	S1-12	1CBV18-DMOP	VH	10	11 Cont Vent Fan Coil Unit Accident Flow DMOP	Cont'nt 1	130	11 CFCU		5			1/Verif.	Defer to RFO
63	S1-04	1CHE7	CH	11	11 Chiller	IPA 1	100	CH WTR Pmp Area	Y	1,2,3,4,5			1	
64	S1-04	1CHE9	CH	11	13 Chiller	IPA 1	100	CH WTR Pmp Area	Y	1,2,3,4,5			1	
65	S1-04	1CHE7-COMP 1CHE7-MTRX	CH	12	11 Chiller Compressor	IPA 1	100	CH WTR Pmp Area	Y	1,2,3,4,5	Y		0	
66	S1-04	1CHE9-COMP 1CHE9-MTRX	CH	12	13 Chiller Compressor	IPA 1	100	CH WTR Pmp Area	Y	1,2,3,4,5			0	
67	S1-18	1DIS1C5YA	EP	14	No. 1C Vital Instrument Bus (115V)	Aux 1	100	1 Relay Rm	Y	1,2,3,4,5			1	Defer to RFO
68	S1-21	1BTRY1ADC	EP	15	No.1A 125VDC Battery	Aux 1	100	125VDC Bat Rm	Y	1,2,3,4,5			1	
69	S1-18	1INV1C5YB	EP	16	No.1C Vital Instrument Inverter	Aux 1	100	1 Relay Rm		1,2,3,4,5			1/Verif.	Defer to RFO
70	S1-34	1BTRY1C12Y	EP	16	No. 1C1 125VDC Battery Charger	Aux 1	84	460/230 Vital 125/250DC Bat	Y	1,2,3,4,5			1/Verif.	Defer to RFO
71	S1-07	1DAE38	EP	17	No.1C Diesel Generator	Aux 1	100	1C D/G Rm	Y	1,2,3,4,5			1/Verif.	
72	S1-13	1LI460A	PS	18	Pressurizer Level CH 2	Aux 1	122	1 Control Room		2,3,4			0	
73	S1-13	1LI921	CV	18	RWST Level Indicator	Aux 1	122	1 Control Room	Y	3,4			0	
74	S1-13	1PI525A	MS	18	Pressure Indicator MS Loop 12	Aux 1	122	1 Control Room	Y	2,4			0	

R2

R2

Salem Unit 1 - Seismic Walkdown Equipment List
(SWEL)
(Sorted by EQ. Class)

No	AWB #	Comp. ID	System	EQ. Class	Component Description	Bldg.	Elev.	Room	Risk Significant (Y/N/NA)	Safety Function	New or Replaced	IPEEE Enhanced	Anchored to Concrete or Structure (Y=1/N=0)	Notes
75	S1-13	1XA6556I	NI	18	Isolated Source Range Indicator-Channel "D"	Aux 1	122	1 Control Room	Y	1	Y		0	
76	S1-19b	1LT628A	CC	18	Level Transmitter No. 1 CC Surge TK	Aux 1	122	Supply Fan Area		3.4			0	
77	S1-37	1PT524	MS	18	Pressure Transmitter-MS Loop 12	OPA 1	100	MS Pen Area		2,4	Y		0	
78	S1-43	1LA2670	AF	18	1AFST Level Transmitter	Yard	100	1 RWST Area		2,4	Y		1	
79	S1-13	1TA14	RC	19	Temperature Indicator Loop 11	Aux 1	122	1 Control Room		1,2,3,4	Y		0	
80	S1-02	230-1	VH	20	1 AUX Bldg Vent SWGR Rm Inst Panel	Aux 1	84	460/230 Vital 125/250DC Bat		1,2,3,4,5			1/Verif.	
81	S1-09	101-1	EP	20	11 RHR Instrument Panel	Aux 1	45	11 RHR Pmp Rm		3,4			1	
82	S1-11	206-1	EP	20	12 AUX Feedwater Panel	Aux 1	84	12 Aux Fd Pump Rm	Y	2,4			1	
83	S1-18	1TRCC	EP	20	1 Cabinet Relay Room Terminal Rack 1TRCC	Aux 1	100	1 Relay Rm		1,2,3,4,5			1	
84	S1-19	724-1E	VH	20	12 Control Area Vent Emerg Supply Fan Instrument Panel	Aux 1	122	1 CR A/C Rm		1,2,3,4,5			1/Verif.	
85	S1-19b	401-1	CC	20	1 CC Surge TK LVL INST PNL	Aux 1	122	Supply Fan Area		3.4			1/Verif.	
86	S1-32	1PNL11832	EP	20	1C D/G Generator Control Panel	Aux 1	100	1C D/G Control Rm	Y	1,2,3,4,5			1	Defer to RFO
87	S1-37	686-1B	MS	20	12 MN STM & TRB By Pass STM GEN Outlet Head Press Control Panel	OPA 1	100	MS Pen Area		2,4			1/Verif.	
88	S1-38	335-1	PR	20	1 REACT COOL PZR Protection Panel	Cont'nt 1	100	Elevator Passage Area		2,3,4			1	Defer to RFO
89	S1-04	1CAE6	CH	21	1 ECAC Aftercooler	IPA 1	100	CH WTR Pmp Area		2,3,4,5			0	
90	S1-12	1SWE24	SW	21	11 FCU	Cont'nt 1	130	11 CFCU		3,4			1/Verif.	Defer to RFO
91	S1-12	1SWE29	SW	21	11 FCU Motor Cooler	Cont'nt 1	130	11 CFCU		3,4			1/Verif.	Defer to RFO
92	S1-16	1CCE5	CC	21	CC HX No 11	Aux 1	84	11 CC Pmp Rm	Y	3.4			1/Verif.	
93	S1-19b	1CCE1	CC	21	No. 1 CC Surge Tank	Aux 1	122	Supply Fan Area	Y	3.4			1/Verif.	
94	S1-20	1DAE48	DA	21	Expansion Tank-1C Diesel	Aux 1	122	1C D/G Rm		1,2,3,4,5			1/Verif.	
95	S1-20	1DFE5	DF	21	N0. 1C Diesel Fuel Oil Day Tank	Aux 1	122	1C D/G Rm	Y	1,2,3,4,5			1/Verif.	
96	S1-23	1DFE2	DF	21	No. 12 Diesel Fuel Oil Storage Tank	Aux 1	84	12 Diesel FOST Rm	Y	1,2,3,4,5			1/Verif.	
97	S1-25	1SJE1	CV	21	Refuel WTR Storage Tank HX No. 1	Aux 1	64	Pmp Rm		3,4			1	
98	S1-44	1RCE11	PR	21	PZR Relief Tank No. 1	Cont'nt 1	78	1 PRT Area		2,3,4,5			1	Defer to RFO
99	S1-47	1SFE12	SF	21	1 SPNT FUEL CLG PIT HT EXCHG	Aux 1	84	Main Corridor	Y	3,4			1/Verif.	(1)

R2

Notes: 1. SWEL 2 component

ATTACHMENT 4 – SEISMIC WALKDOWN ENGINEER CERTIFICATIONS

SQUG

Certificate of Achievement

This is to Certify that

Arie Blum

has Completed the SQUG Walkdown Screening
and Seismic Evaluation Training Course
Held September 14–18, 1992

David A. Freed, MPR Associates
SQUG Training Coordinator

Neil P. Smith, Commonwealth Edison
SQUG Chairman

Robert P. Kassawara, EPRI
SQUG Program Manager

EPRI | ELECTRIC POWER RESEARCH INSTITUTE

Certificate of Completion

Alex Coologeorgen

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

June 27, 2012
Date

R.P. Kassawara
Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity

EPRI | ELECTRIC POWER RESEARCH INSTITUTE

Certificate of Completion

John Skomorucha

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

June 21, 2012

Date

R.P. Kassawara

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity

EPRI | ELECTRIC POWER RESEARCH INSTITUTE

Certificate of Completion

Jeffrey Puskar

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

June 21, 2012

Date

R.P. Kassawara

Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity

SQUG

CERTIFICATE OF ACHIEVEMENT

THIS IS TO CERTIFY THAT

Javad Moslemian

HAS COMPLETED THE SQUG WALKDOWN SCREENING AND SEISMIC EVALUATION TRAINING COURSE

DECEMBER 10-14, 2001

Richard G. Starck II, MPR Associates
SQUG Training Coordinator

John M. Richards, Duke Energy
SQUG Chairman

Robert P. Kassawara, EPRI
SQUG Program Manager

ATTACHMENT 5 – CHECKLIST FOR PEER REVIEW OF SSC SELECTION

Peer Review Checklist for SWEL

Instructions for Completing Checklist

This peer review checklist may be used to document the review of the Seismic Walkdown Equipment List (SWEL) in accordance with Section 6: Peer Review. The space below each question in this checklist should be used to describe any findings identified during the peer review process and how the SWEL may have changed to address those findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Were the five safety functions adequately represented in the SWEL 1 selection? Y☒ N☐

2. Does SWEL 1 include an appropriate representation of items having the following sample selection attributes:

   a. Various types of systems? Y☒ N☐

   b. Major new and replacement equipment? Y☒ N☐

   c. Various types of equipment? Y☒ N☐
   All classes of equipment were included in the SWEL except for Class 13. SGS does not have any Seismic Category I equipment in this equipment class.

   d. Various environments? Y☒ N☐

   e. Equipment enhanced based on the findings of the IPEEE (or equivalent) program? Y☒ N☐
   Per "PSEG Response to Generic Letter 88-20, Supplement 4, Individual Plant Examination for External Events (IPEEE) for Severe Accedent Vulnerabilities, Salem Nuclear Generating Station, Docket Nos. 50.272 and 50-311", Section 7, no plant improvements involving equipment were required at SGS. Therefore, no IPEEE enhanced equipment was included in the SWEL.

Peer Review Checklist for SWEL

f. Were risk insights considered in the development of SWEL 1? Y☒ N☐

3. For SWEL 2:

a. Were spent fuel pool related items considered, and if applicable included in SWEL 2? Y☒ N☐

b. Was an appropriate justification documented for spent fuel pool related items not included in SWEL 2? Y☒ N☐

4. Provide any other comments related to the peer review of the SWELs.

5. Have all peer review comments been adequately addressed in the final SWEL? Y☒ N☐

Peer Reviewer #1: Bryan Morgan Date: 11/14/12

Peer Reviewer #2: Javad Moslemian Date: 11/14/12