PSE&G

Public Service Electric and Gas Company 80 Park Place Newark, N.J. 07101 Phone 201/430-7000

November 26, 1980

Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Mr. Frank J. Miraglia, Chief
Licensing Branch 3
Division of Licensing

Gentlemen:

ENVIRONMENTAL QUALIFICATION OF CLASS IE
INSTRUMENTATION AND ELECTRICAL EQUIPMENT
NO. 2 UNIT
SALEM NUCLEAR GENERATING STATION
DOCKET NO. 50-311

PSE&G hereby submits its revised report on Environmental Qualification of Class IE instrumentation and electrical equipment. This report supersedes our previous submittals dated May 22, August 25, September 18, and October 1, 1980.

As this submittal contains information proprietary to Westinghouse Electric Corporation, it is supported by an affidavit signed by Westinghouse, the owners of the information. The affidavit sets forth the basis on which the information may be withheld from public disclosure by the Commission and addresses with specificity the considerations listed in paragraph (b) (4) of Section 2.790 of the Commission's regulations.

Accordingly, it is respectfully requested that the information which is proprietary to Westinghouse be withheld from public disclosure in accordance with 10 CFR Section 2.790 of the Commissions regulations. Correspondence with respect to the proprietary aspects of this application for withholding or the supporting Westinghouse affidavit should reference CAW-80-15, and should be addressed to R. A. Wiesemann, Manager, Regulatory and Legislative Affairs, Westinghouse Electric Corporation, P.O. Box 355, Pittsburgh, Pennsylvania 15230.

This submittal consists of one (1) copy each of the proprietary and non-proprietary versions of the report and one (1) copy of the supporting affidavit.

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The Energy People

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95-0942

Should you have any questions in this regard, do not hesitate to contact us.

Very truly yours,

R. L. Mittl
General Manager -
Licensing and Environment
Engineering and Construction

CC: Mr. Leif Norrholm
Salem Resident Inspector (w/o attachment)

BK05 1/2

Westinghouse Electric Corporation
Water Reactor Divisions

Nuclear Technology Division
Box 355
Pittsburgh Pennsylvania 15230

May 22, 1980
CAW-80-15

Mr. H. R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

APPLICATION FOR WITHHOLDING PROPRIETARY INFORMATION FROM PUBLIC DISCLOSURE

SUBJECT: Salem Unit 2 (Docket Number 50-311) Information Related to Electrical Equipment Qualification

REF: Letter from Mittl to Denton dated May 22, 1980

Gentlemen:

The proprietary material transmitted by the reference letter supplements the proprietary material previously submitted concerning the environmental qualification of safety-related equipment. Further, the affidavit submitted to justify the material previously submitted, AW-76-39, was approved by the Commission on April 15, 1977, and is equally applicable to this material.

Accordingly, withholding the subject material from public disclosure is requested in accordance with the previously submitted affidavit and application for withholding, AW-76-39, dated August 27, 1976, a copy of which is attached. The approved application was further supported by a proprietary affidavit, not attached, which was sent to the Commission on September 29, 1978 and approved by the Commission on May 9, 1979.

Correspondence with respect to this application for withholding or the accompanying affidavit should reference CAW-80-15, and should be addressed to the undersigned.

Very truly yours,

Robert A. Wiesemann, Manager
Regulatory & Legislative Affairs

/bek
Attachment

cc: J. A. Cooke, Esq.
Office of the Executive Legal Director, NRC

Westinghouse Electric Corporation
Power Systems Company

PWR Systems Division
Box 355
Pittsburgh Pennsylvania 15230

August 27, 1976
AW-76-39

Mr. John F. Stolz, Chief
Light Water Reactors Project
Division of Project Management
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
7920 Norfolk Avenue
Bethesda, Maryland 20014

APPLICATION FOR WITHHOLDING PROPRIETARY

INFORMATION FROM PUBLIC DISCLOSURE

SUBJECT: Westinghouse Equipment Qualification Programs and Thermal Environmental Qualification Curve

REF: Westinghouse Letter No. NS-CE-1183, Eicheldinger to Stolz, dated August 27, 1976

This application for withholding is submitted by Westinghouse Electric Corporation ("Westinghouse") pursuant to the provisions of paragraph (b)(1) of Section 2.790 of the Commission's regulations. Withholding from public disclosure is requested with respect to the subject information which is further identified in the affidavit accompanying this application.

The undersigned has reviewed the information sought to be withheld and is authorized to apply for its withholding on behalf of Westinghouse, WRD, notification of which was sent to the Secretary of the Commission on April 19, 1976.

The affidavit accompanying this application sets forth the basis on which the information may be withheld from public disclosure by the Commission and addresses with specificity the considerations listed in paragraph (b)(4) of Section 2.790 of the Commission's regulations.

Accordingly, it is respectfully requested that the subject information which is proprietary to Westinghouse and which is further identified in the affidavit be withheld from public disclosure in accordance with 10 CFR Section 2.790 of the Commission's regulations.

Correspondence with respect to this application for withholding or the accompanying affidavit should be addressed to the undersigned.

Very truly yours,

Robert A. Wiesemann, Manager
Licensing Programs

/kek

Enclosure

cc: J. W. Maynard, Esq.
Office of the Executive Legal Director, NRC

AW-76-39

AFFIDAVIT

COMMONWEALTH OF PENNSYLVANIA:

ss

COUNTY OF ALLEGHENY:

Before me, the undersigned authority, personally appeared Robert A. Wiesemann, who, being by me duly sworn according to law, deposes and says that he is authorized to execute this Affidavit on behalf of Westinghouse Electric Corporation ("Westinghouse") and that the averments of fact set forth in this Affidavit are true and correct to the best of his knowledge, information, and belief:

Robert A. Wiesemann

Robert A. Wiesemann, Manager
Licensing Programs

Sworn to and subscribed
before me this 3rd day
of December 1976.

Notary Public

REBECCA A. LORINCZ, NOTARY PUBLIC
MONROEVILLE BOROUGH
ALLEGHENY COUNTY
MY COMMISSION EXPIRES APR. 15, 1978

(1) I am Manager, Licensing Programs, in the Pressurized Water Reactor Systems Division, of Westinghouse Electric Corporation and as such, I have been specifically delegated the function of reviewing the proprietary information sought to be withheld from public disclosure in connection with nuclear power plant licensing or rule-making proceedings, and am authorized to apply for its withholding on behalf of the Westinghouse Water Reactor Divisions.

(2) I am making this Affidavit in conformance with the provisions of 10 CFR Section 2.790 of the Commission's regulations and in conjunction with the Westinghouse application for withholding accompanying this Affidavit.

(3) I have personal knowledge of the criteria and procedures utilized by Westinghouse Nuclear Energy Systems in designating information as a trade secret, privileged or as confidential commercial or financial information.

(4) Pursuant to the provisions of paragraph (b)(4) of Section 2.790 of the Commission's regulations, the following is furnished for consideration by the Commission in determining whether the information sought to be withheld from public disclosure should be withheld.

(i) The information sought to be withheld from public disclosure is owned and has been held in confidence by Westinghouse.

(ii) The information is of a type customarily held in confidence by Westinghouse and not customarily disclosed to the public. Westinghouse has a rational basis for determining the types of information customarily held in confidence by it and, in that connection, utilizes a system to determine when and whether to hold certain types of information in confidence. The application of that system and the substance of that system constitutes Westinghouse policy and provides the rational basis required.

Under that system, information is held in confidence if it falls in one or more of several types, the release of which might result in the loss of an existing or potential competitive advantage, as follows:

(a) The information reveals the distinguishing aspects of a process (or component, structure, tool, method, etc.) where prevention of its use by any of Westinghouse's competitors without license from Westinghouse constitutes a competitive economic advantage over other companies.

(b) It consists of supporting data, including test data, relative to a process (or component, structure, tool, method, etc.), the application of which data secures a competitive economic advantage, e.g., by optimization or improved marketability.

(c) Its use by a competitor would reduce his expenditure of resources or improve his competitive position in the design, manufacture, shipment, installation, assurance of quality, or licensing a similar product.

(d) It reveals cost or price information, production capacities, budget levels, or commercial strategies of Westinghouse, its customers or suppliers.

(e) It reveals aspects of past, present, or future Westinghouse or customer funded development plans and programs of potential commercial value to Westinghouse.

(f) It contains patentable ideas, for which patent protection may be desirable.

(g) It is not the property of Westinghouse, but must be treated as proprietary by Westinghouse according to agreements with the owner.

There are sound policy reasons behind the Westinghouse system which include the following:

(a) The use of such information by Westinghouse gives Westinghouse a competitive advantage over its competitors. It is, therefore, withheld from disclosure to protect the Westinghouse competitive position.

(b) It is information which is marketable in many ways. The extent to which such information is available to competitors diminishes the Westinghouse ability to sell products and services involving the use of the information.

(c) Use by our competitor would put Westinghouse at a competitive disadvantage by reducing his expenditure of resources at our expense.

(d) Each component of proprietary information pertinent to a particular competitive advantage is potentially as valuable as the total competitive advantage. If competitors acquire components of proprietary information, any one component may be the key to the entire puzzle, thereby depriving Westinghouse of a competitive advantage.

(e) Unrestricted disclosure would jeopardize the position of prominence of Westinghouse in the world market, and thereby give a market advantage to the competition in those countries.

(f) The Westinghouse capacity to invest corporate assets in research and development depends upon the success in obtaining and maintaining a competitive advantage.

(iii) The information is being transmitted to the Commission in confidence and, under the provisions of 10 CFR Section 2.790, it is to be received in confidence by the Commission.

(iv) The information is not available in public sources to the best of our knowledge and belief.

(v) The proprietary information sought to be withheld in this submittal is that which is appropriately marked in the attachment to Westinghouse letter number NS-CE-1183, Eicheldinger to Stolz, dated August 27, 1976, concerning Westinghouse equipment qualification programs and thermal environmental qualification curve. The letter and attachment are being submitted in response to the NRC's request for information dated July 28, 1976.

This information enables Westinghouse to:

(a) Develop test inputs and procedures to satisfactorily verify the design of Westinghouse supplied equipment.

(b) Assist its customers to obtain licenses.

Further, the information has substantial commercial value as follows:

(a) Westinghouse can sell the use of this information to customers.

(b) Westinghouse uses the information to verify the design of equipment which is sold to customers.

(c) Westinghouse can sell testing services based upon the experience gained and the test equipment and methods developed.

Public disclosure of this information is likely to cause substantial harm to the competitive position of Westinghouse because it would enhance the ability of competitors to design, manufacture, verify, and sell electrical equipment for commercial power reactors without commensurate expenses. Also, public disclosure of the information would enable others having the same or similar equipment to use the information to meet NRC requirements for licensing documentation without purchasing the right to use the information.

The development of the equipment described in part by the information is the result of many years of development by Westinghouse and the expenditure of a considerable sum of money.

This could only be duplicated by a competitor if he were to invest similar sums of money and provided he had the appropriate talent available and could somehow obtain the requisite experience.

Further the deponent sayeth not.

SALEM GENERATING STATION

UNITS 1 AND 2

DOCKET NOS. 50-272 AND 50-311

ENVIRONMENTAL QUALIFICATION REVIEW REPORT

VOLUME 1

(NON-PROPRIETARY VERSION)

December 1, 1980

Rev. 1 - 12/1/80

Rev. 2 - 1/16/81

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IX	Quality Assurance Aspects
X	Review of Vendor Qualification Reports

I. INTRODUCTION

I. INTRODUCTION

This document is Revision 1 of the Environmental Qualification Review Report which supersedes the original report submitted on August 26, 1980 for Salem Unit No. 2, and November 1, 1980 for Unit No. 1.

This report presents the results of an environmental qualification review of electrical and controls equipment located in a harsh environment which must operate to mitigate the effects of an accident and maintain the plant in a safe condition. This review was conducted by Public Service Electric and Gas Company for both units of the Salem Generating Station. The two units are identical in design except for a few items. The differences between the two units have been noted in the applicable sections of this report. As such, this report is submitted in support of the full power license requirements for Salem Unit 2 and in response to NRC IE Bulletin 79-01B for Salem Unit 1. Two versions of this report (proprietary and non-proprietary) have been prepared. The review of environmental qualification of equipment at Salem was performed using these criteria:

- Identification of Class 1E equipment which must operate to mitigate the consequences of design basis accidents and must operate in harsh environments. This included devices required for initiation of automatic protective functions and those for post-accident recovery actions.

- Identification of equipment which is located in an area subject to a harsh environment and is not required to perform a safety function but whose misoperation in such an environment may cause a degradation of other safety equipment required or may adversely affect the performance of safety functions.

- Identification of devices/components which provide indication to the operator which he is presently called upon to utilize in the emergency operating procedures and are located in an area subject to a harsh environment. This includes devices needed for the performance of safety actions by the operator and those that provide supplementary information.

The first item is self-explanatory and is the basis of NUREG-0588 and its requirements for equipment qualification reviews.

The second item deserves further explanation. Many of the items found in this category were control systems for normal plant operation which have been previously assumed to remain as is during safety analyses for accident scenarios. These devices and the potential effect on safety due to environmental induced failure came to light in September 1979 via NRC letters to operating plants, and issuance of Information Notice 79-22. It was addressed by Salem in LER 79-58 and a letter to the NRC Staff dated October 4, 1979. At that time a number of potential failures were analyzed and found to be acceptable at Salem since plant safety was not compromised.

In the spirit of addressing plant safety in this review and consideration of environmental consequential effects, these devices, if found to be located in areas subject to harsh environments, were listed and justifications were provided to show that qualification in accordance with NUREG-0588 was not required. This was done for the steam atmospheric power operated relief valves (MS10's) and ex-core neutron detectors even though previously identified in LER's and letters and found not to be a safety problem. Our equipment qualification review has reaffirmed that position.

Some other items, similar in nature, have also been identified such as local CMC switches for main steam stop valves, proportional adjusting transmitters for steam warmup valves and electric/pneumatic converters for residual heat removal valves. These devices are used for normal operation and not safety functions.

The third item is not directly specified in NUREG-0588 but is well enumerated in NRC IE Bulletin 79-01B which also deals with environmental qualification reviews. The purpose of listing the emergency procedure items that are located in areas subject to a harsh environment is to assure that sufficient equipment has adequate qualification for the performance of accident recovery actions and that the non-essential or supportive indications (if non-qualified) will not be misleading to the operator and cause him to take actions contrary to safety. This report contains justifications for items in the procedures which do not fully comply with NUREG-0588 qualification documentation requirements even if they are supportive/non-essential indications. These justifications provide the assurance that they are not required for safety actions or cause the operator to take inappropriate actions. Those cases which involve modification of procedures to alert the operator to the potential

unreliability of some indications will be completed prior to exceeding 5% power on Salem No. 2. Similar changes to the Unit No. 1 procedures will be completed by December 15, 1980.

The information that is provided in this report is consistent with that required by Bulletin 79-01B and supplements. It is included to provide complete documentation of this review even though not specifically required by NUREG-0588.

Supplement 3 to Bulletin 79-01B clarified requirements associated with cold shutdown equipment and TMI Action Plan items. This report already incorporates many of those items. Since the licensing basis for both Salem units is predicated upon a safe, hot shutdown condition, the balance of cold shutdown equipment will be added to this report by February 1, 1981. The balance of the TMI Action Plan items will be added to this report on a schedule consistent with the clarified schedule specified in Supplement 3 of Bulletin 79-01B.

II. REVIEW PHILOSOPHY/PROCEDURES

II. REVIEW PHILOSOPHY/PROCEDURES

All instruments, cables, terminations, motors, solenoids, etc. were identified which were not located in the control complex area (control room, relay room, 460V and 4160V switchgear rooms) and which would be needed to mitigate the consequences of an accident. Equipment located within the control complex was not included due to the fact that the area is serviced by a Class 1E ventilation system and would not be subject to a harsh environment. The equipment for the Class 1E ventilation system would also not be damaged by harsh environments caused by an accident.

Once identified, this equipment was located on a number of arrangement drawings to determine potential hazardous environments. Data generated from the high energy line break analysis performed for Salem (documented in FSAR Section 14.5) was used to identify areas which would increase in temperature and pressure and also to identify the actual system piping that was postulated to break (many areas were protected by pipe encapsulation and venting).

Data generated in the TMI Lesson Learned shielding review requirements was used to determine radiation doses for areas following an accident. An analysis was then performed to determine which devices must operate in a harsh environment. The results of this review are included in Sections III, IV, V of this report.

Section III diagramatically shows the environmental zones for Salem and indicates environment conditions (HEBA/Recirc) and principal functions in the area.

Section IV lists all instruments, cables, motors, etc. which must undergo an equipment qualification review. This section is organized by system and in a table format (similar to NRC IE Bulletin 79-01B) and lists individual items, manufacturer, service, location, environmental conditions and outstanding items discovered during the review process. This section has been located in Volume 2 of the report for convenience.

A documentation review was undertaken for the items in Section IV (master list). The results of this review are in Sections V and VI. Section V presents information on the data review process to determine whether qualification data meets specified requirements. Section VI includes the

qualification profiles. Items in the master list identify the appropriate qualification data review form provided in Section V. The data review forms reference qualification profiles where appropriate. Justifications of open items are included in Section VII.

The review was conducted for both units under the requirements of NRC IE Bulletin 79-01B. Operability, as well as misoperability, was evaluated to determine effects on plant safety. This neccessitated review at the schematic level. During the review, some items were found to have insufficient data because acceptability was based on short-term operation but the review requires demonstration of one-hour operability. In some cases, no documentation was available other than experience and engineering practice. In some cases, the aging review has not been completed.

Each of these cases has been noted on the appropriate lists in Section V. Justifications for continued plant operation have been provided for each case until final resolutions can be implemented as described in Section VII.

Section VIII of this report provides an expanded discussion of compliance with NUREG-0588 requirements.

Section IX addresses the quality assurance aspects of the qualification review.

Section X of the report discusses the review of vendor qualification reports and the acceptance criteria used by PSE&G during the review.

III. ENVIRONMENTAL ZONES AND CONDITIONS

III. ENVIRONMENTAL ZONES AND CONDITIONS

The plant layout drawings indicate the different areas within the plant that have been identified as having a harsh environment following a LOCA, high energy line break or high radiation during the recirculation/cooldown phase of operations following an accident. Each zone has been identified and that identification is noted for specific items in the master list of components in Section IV.

The environmental conditions (temperature, pressure, radiation) for each zone are tabulated in this section. The zones and environmental conditions (temperature, pressure) are based on the high energy line break analysis for Salem as described in the Salem FSAR, Section 14.5. Radiation exposures have been determined from the TMI Lesson Learned NUREG-0578 Shielding Review Requirements. They are based on 40 year life and 120 days following an accident. Section VIII of this report provides additional information with respect to compliance with NUREG-0588 for determination of environmental conditions.

ZONE	EVENT	CONDITIONS	PRINCIPAL FUNCTIONS
Containment	LOCA/MSLB	271/350°F 43.2/42.8 psig (See Figures 1 and 2) 100% humidity Chemical Spray 0.2 wt% NaOH 1.2 wt% Boric Acid $5x10^7$ R	RCS indications Pressurizer indications and controls Steam Gen flow and level Containment indications Hydrogen Recombiners Containment Ventilation Controls
Inboard Pen.	MSLB	320°F 5.8 psig 100% humidity 10^3-10^5R	Steamline isolation Steamline pressure Aux. FW flow
Outboard Pen.	MSLB	320°F 5.8 psig 100% humidity 10^3-10^5R	Steamline isolation Steamline pressure Aux. FW flow
Mech. Pen.-78	HEBA	212°F 1 psig 100% humidity 10^5-$5x10^7$R	Containment isolation Containment pressure Containment ventilation controls ECCS valves
Mech. Pen.-100	HEBA	285° 1 psig 100% humidity 10^5-$5x10^7$R	Containment isolation Containment ventilation control

ZONE	EVENT	CONDITIONS	PRINCIPAL FUNCTIONS
Elect. Penet.	Recirc	10^3-10^5R	Electrical cables and penetrations Motor control centers Containment isolation Pressurizer heater bus
Vital Vent. Area	Recirc	10^1-10^3R	Chillers Vent control centers Emergency air compressors
SW Valve Rm.	Recirc	10^5-10^7R	Service Water Instruments
Aux Bldg 45/55	Recirc	10^6R	RHR equipment
Aux Bldg 84	Recirc	10^1-10^3R	Dependent on pump rooms
		10^3-10^5R	Aux FW pump and control
		10^5-$5x10^7$R	ECCS equipment Motor control centers Component cooling
Aux Bldg 100	Recirc	10^1-10^3R	Diesel-generators Miscellaneous CVCS equipment
Aux FW Turb Rm	HEBA	N/A (contained and vented) (refer to FSAR Sect. 14.5)	Aux FW Pump Turbine and Controls
Aux Bldg 122	Recirc	10^1-10^3R	Air Conditioning and Aux Building Ventilation Equipment

The Control Room, Equipment Rooms, Relay Room and Switchgear Rooms do not have a harsh environment caused by a HEBA, MSLB, LOCA or recirculated fluids. These are served by Class 1E redundant ventilation equipment which are also not subject to harsh environments and are located in benign areas for radiation doses following an accident (approximately 10R). Furthermore, these areas are accessible to personnel should any equipment malfunction.

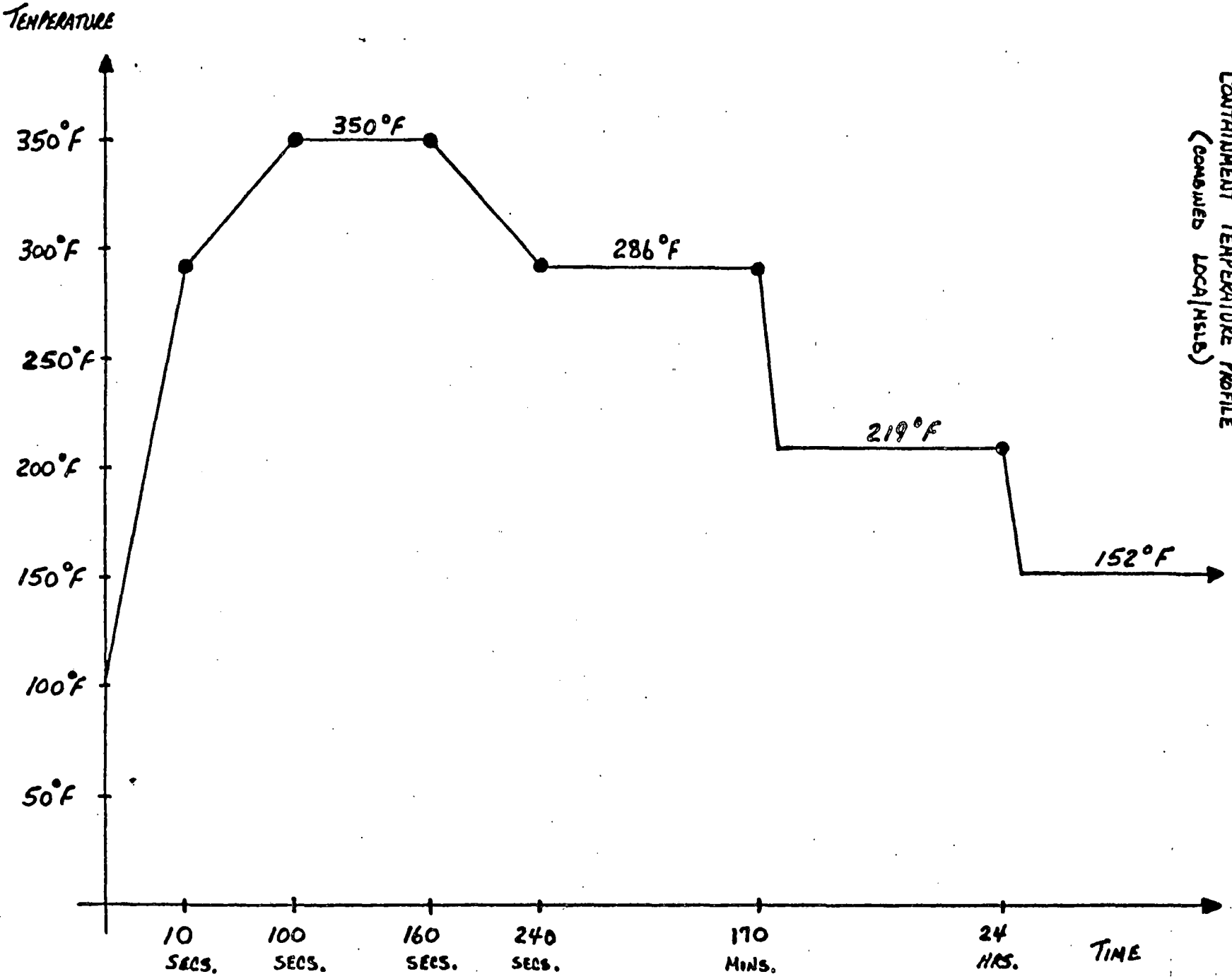


FIGURE 1
CONTAINMENT TEMPERATURE PROFILE
(COMBINED LOCA/MSLB)

Revision 1

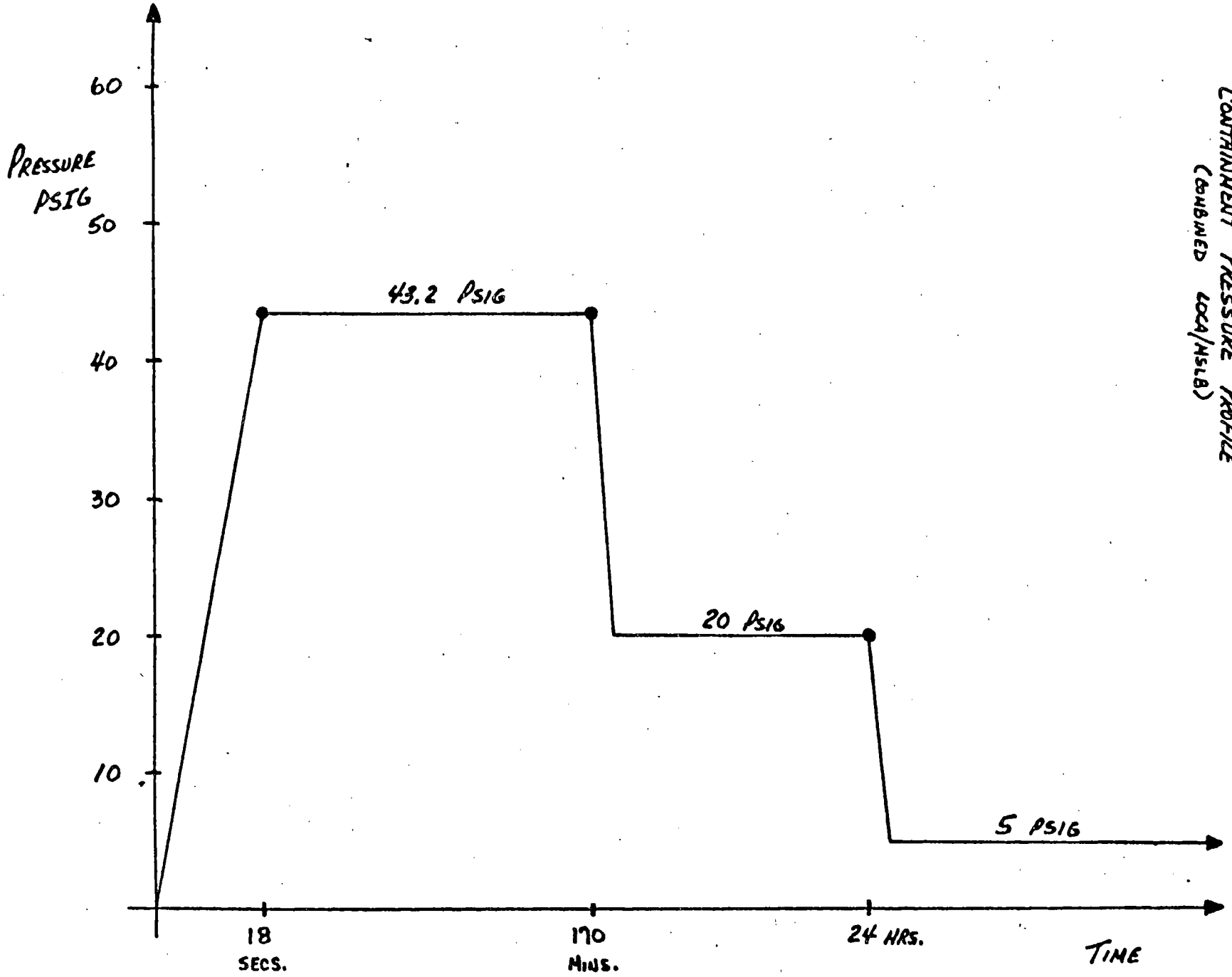
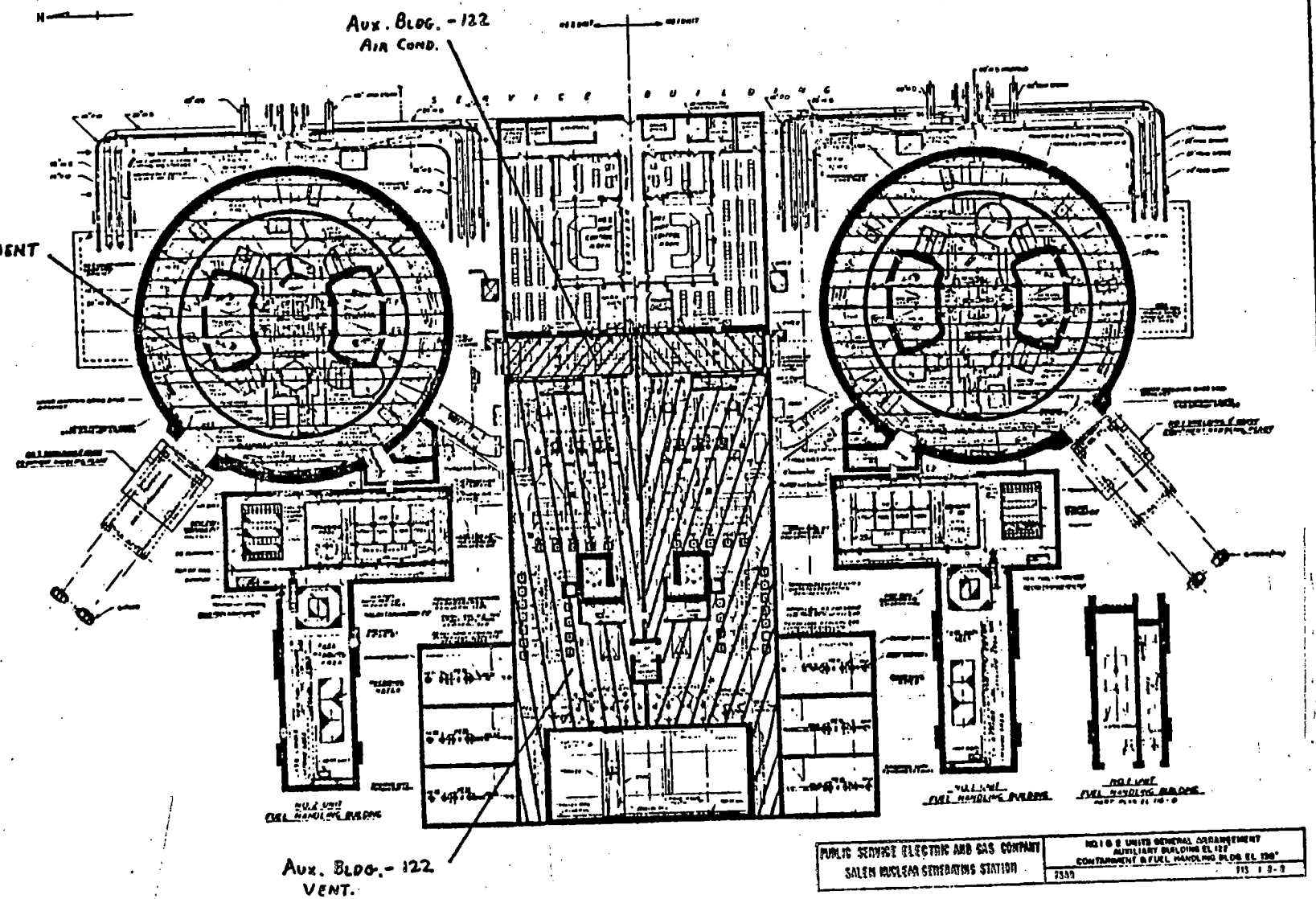


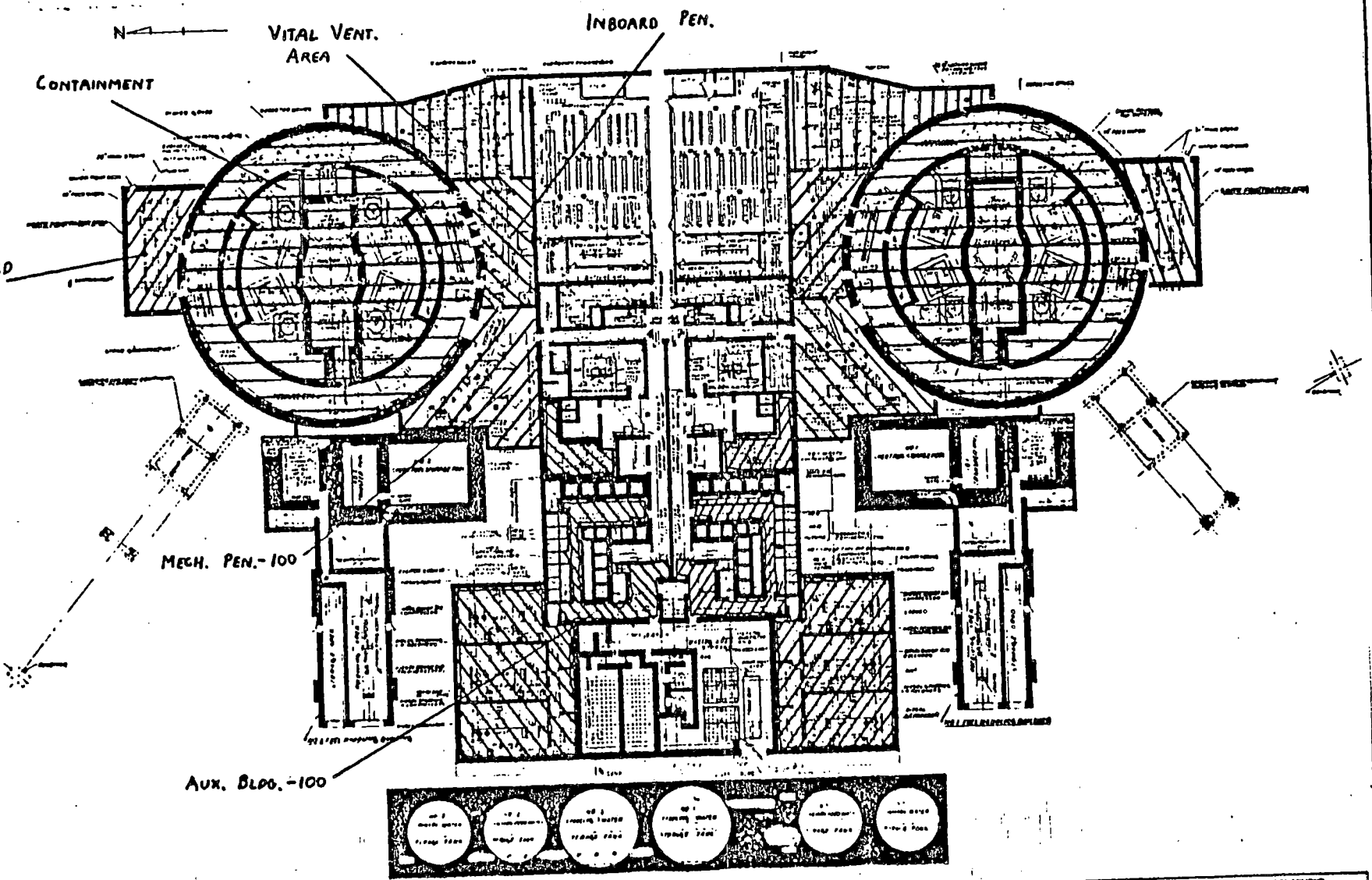
FIGURE 2

CONTAINMENT PRESSURE PROFILE (COMBINED LOCA/MSLB)

Revision 1


AUX. BLDG. - 122
AIR COND.
CONTAINMENT
AUX. BLDG. - 122
VENT.
PUBLIC SERVICE ELECTRIC AND GAS COMPANY
SALEM NUCLEAR GENERATING STATION
NO 1 & 2 UNITS GENERAL ARRANGEMENT
AUXILIARY BUILDING EL 122'
CONTAINMENT & FUEL HANDLING BLDG EL 130'

Revision 1

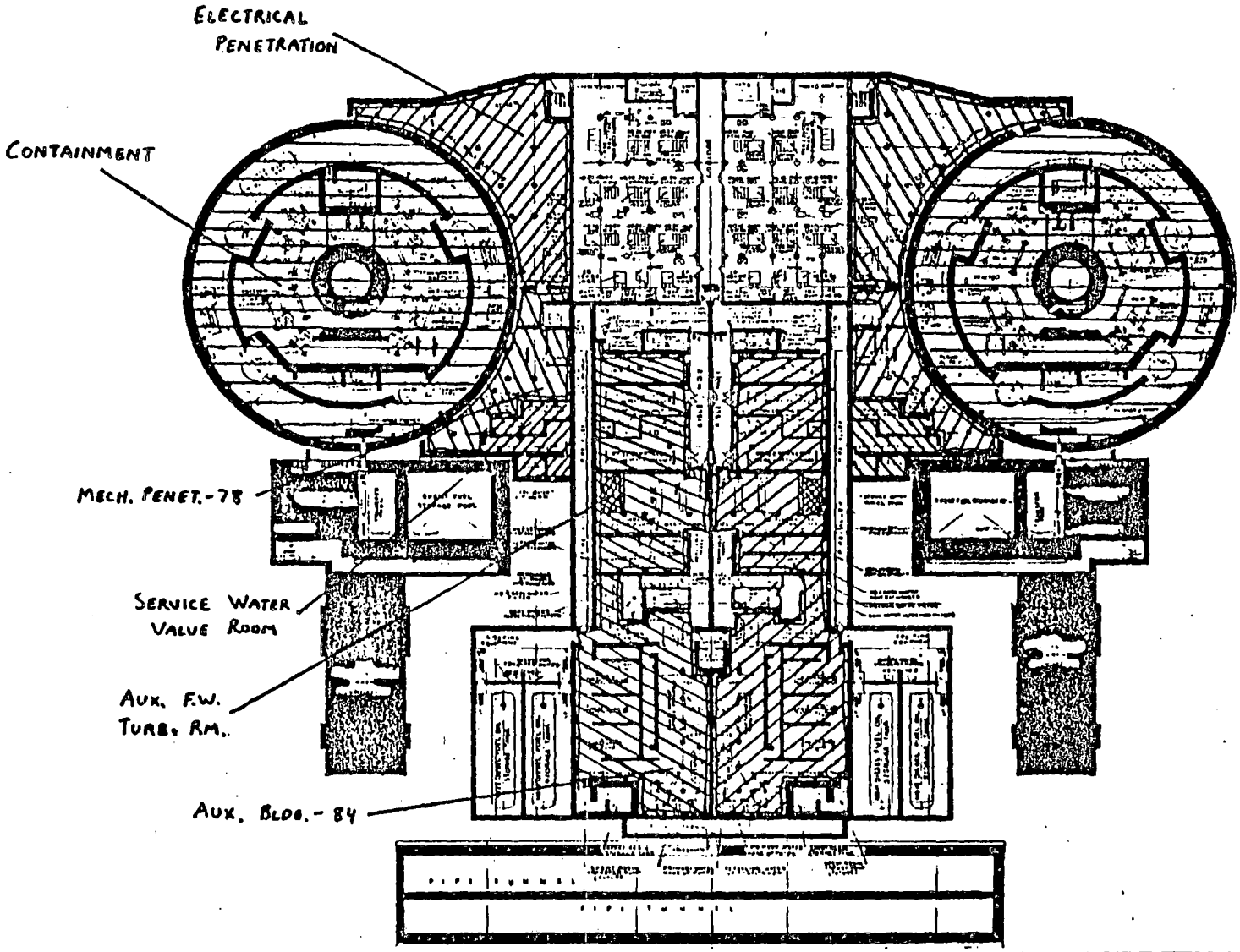


PUBLIC SERVICE ELECTRIC AND GAS COMPANY
SALEM NUCLEAR GENERATING STATION

NO 1 & 2 UNITS GENERAL ARRANGEMENT
AUXILIARY CONTAINMENT FUEL HANDLING BUILDING EL 100'

7388 213 13-3

Revision 1


ELECTRICAL PENETRATION
CONTAINMENT
MECH. PENET.-78
SERVICE WATER VALUE ROOM
AUX. F.W. TURB. RM.
AUX. BLDG.-84
PUBLIC SERVICE ELECTRIC AND GAS COMPANY
SALEM NUCLEAR GENERATING STATION

Revision 1

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

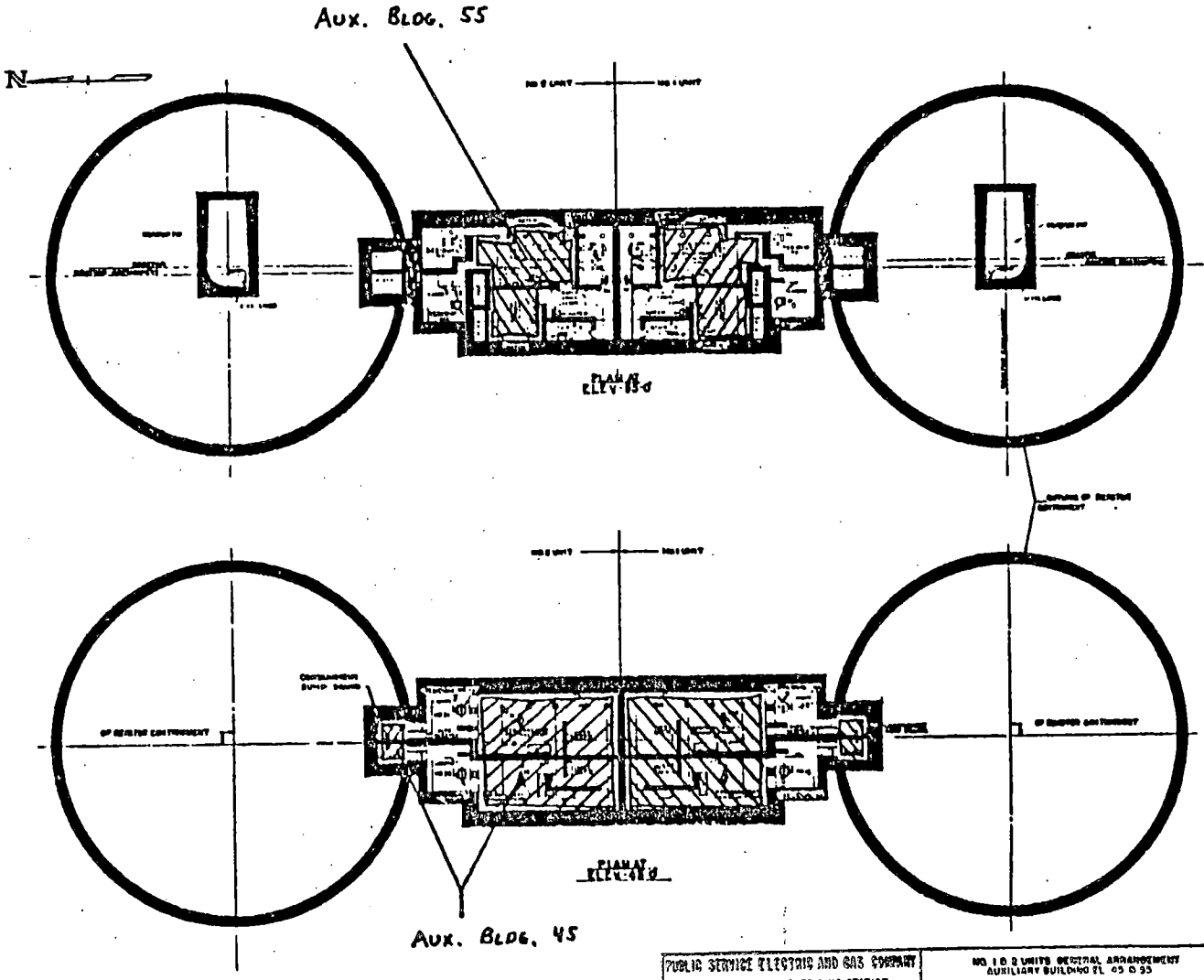
SALEM NUCLEAR GENERATING STATION

NO. 1 & 2 UNITS - GENERAL ARRANGEMENT

AUXILIARY BUILDING EL 64'

1568 NO 1-0-8

Revision 1



PUBLIC SERVICE ELECTRIC AND GAS COMPANY SALEM NUCLEAR GENERATING STATION	NO. 1 & 2 UNITS GENERAL ARRANGEMENT AUXILIARY BUILDING EL. 45 & 55
	FSAR 7.13.1.2-6

Revision 1

V. QUALIFICATION DATA REVIEW FORMS

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: Reactor Coolant Identification: Refer to Master List Pages 1 & 5 Component: RTD Manufacturer: Rosemount Model: [ ]A,C Service: RC Hot/Cold Leg Narrow Range Temperature Function: Trip Input for Protection System Accuracy: Spec. ± 5% Demon. [ ]A,B,C Location: Piping - Containment	Operating Time	MSLB <30 secs	144 hr. Test Equivalent 17 days	1	7,8,9	Sequential Test (Radiation,	None	—
	Temperature	350°F	[ ]A,B,C (Fig 1A, 1B)	2,3	7,8,10	Accident Environment Simulation)		—
	Pressure	42.8 Psig	[ ]A,B,C	2	7,8			—
	Relative Humidity	100%	[ ]A,B,C	—				—
	Chemical Spray	Boric Acid & NaOH pH>8.5 >22.5 hrs	Boric Acid & NaOH 1.146 wt.% & .19 wt.% 24 hrs	4	—			—
	Radiation	5×10^7 R (Note A)	[ ]A,B,C	5,6	7,8,6			—
	Aging	—		—	7,8,6		Basis 1	Qualified Life Determination
Flood Level El: 83'-1" Above Flood Level: Yes	Submergence	N/A	None	—		—	None	—

References:

1. Post-Accident Time Required for Instrumentation and Controls
2. FSAR; Q5.82 & Q5.85
3. NRC SER for Salem (SWR 4) NUREG 0517, 4/80; Pg 3-10
4. FSAR; Pg. 6.4-10 & Table 6.2-11
5. PSE&G Calculations for Radiation - Environ. Qual.
6. PSE&G/NRC Letter - 5/22/80
7. WCAP 9157, 9/77
8. PSE&G Documentation Evaluation - EQ 10.00
9. PSE&G Calculation - EQ 10.02
10. PSE&G Analysis - EQ 10.03

Notes:

A. Value is based on integrated dose 120 days following accident. Integrated dose for function needed is considerably less < 10^6 R

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: Reactor Coolant Identification: Refer to Master List Page 9 Component: RTD Manufacturer: Rosemount Model: [ ]A,C Service: RC Hot/Cold Leg Wide Range Temperature Function: Post-Accident Monitoring Accuracy: Spec. ± 5% Demon. [ ]A,B,C Location: Piping - Containment	Operating Time	LOCA/HSLB 14 DAYS	144 HR. TEST EQUIVALENT 17 DAYS	1	8,9,10	SEQUENTIAL TEST (RADIATION,	REFERENCE 12	NOTE A
	Temperature	271/350°F	[ ]A,B,C (FIG. 1A, 1B)	2,3	8,9,11	ACCIDENT ENVIRONMENT SIMULATION) (NOTE B)		
	Pressure	43.2/42.8 PSIG	[ ]A,B,C (FIG 1A, 1B)	4	8,9			
	Relative Humidity	100%	[ ]A,B,C	—				
	Chemical Spray	BORIC ACID & NAOH pH > 8.5 > 22.5 HRS	BORIC ACID & NAOH 1.146 wt% & .11 wt.% 24 HRS	5				
	Radiation	≤ 5 x 10⁷ R	[ ]A,B,C	6,7	8,9,7			
	Aging	—	REPLACEMENT AT EACH REFUELING	—	8,9,7, 12			
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	NONE	—			NONE	

References:

1. POST ACCIDENT TIME REQUIRED FOR INSTRUMENTATION AND CONTROLS
2. FSAR; FIGURE 7.5-5 & Q5.82, Q5.85
3. NRC SER FOR SALEM (SUPP. 4) NUREG 0517, 4/80; Pg. 3-10
4. FSAR; FIGS. 7.5-4, 14.3-25, Pg. 14.3-56 & Q5.85
5. FSAR; Pg. 6.4-10 & TABLE 6.2-4
6. PSE&G CALCULATIONS FOR RADIATION - ENVIRON. QUAL.
7. PSE&G/NRC LETTER - 5/22/80
8. WCAP 9157, 9/77 (EQ10.00)
9. PSE&G DOCUMENTATION EVALUATION EQ10
10. PSE&G CALCULATION - EQ 10.02
11. PSE&G ANALYSIS - EQ 10.03
12. NRC SER FOR SALEM (SUPP. 4) NUREG 0517, 4/80; Pg. 3-15

Notes:

A. REPLACEMENT AT EACH REFUELING PENDING REQUALIFICATION PER NRC REQUIREMENTS IN REF. 12.

B. TEST WAS CONDUCTED FOR MODEL [ ]A,C, MODEL [ ]A,C IS SIMILAR AND ALL TEST DATA IS APPLICABLE.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: REACTOR COOLANT Identification: PA0039 & PA0088 (UNIT 1) Component: PRESSURE TRANSMITTER Manufacturer: BARTON Model: [ ]A,C PROD. LOT 2 Service: RC SYSTEM PRESSURE Function: POST ACCIDENT MONITORING Accuracy: Spec. ± 10 % Demon. [ ]A,B,C Location: PANEL CONTAINMENT	Operating Time	LOCA/MSLB 120 DAYS	16 DAYS IN ADVERSE ENVIR. ≈ 120 DAYS POST-ACCIDENT	1, 2	8, 9	SEQUENTIAL TEST NOTE B	NONE	—
	Temperature	271/296°F	[ ]A,B,C Fig. 2, 3A, 3B, 3C	3, 4 NOTE A				—
	Pressure	43.2/62.8 PSIG	[ ]A,B,C	5				—
	Relative Humidity	100%	[ ]A,B,C	—				—
	Chemical Spray	0.2 WT. % NAOH 1.2 WT % BORIC ACID	0.17 WT. % NAOH 1.14 WT % BORIC ACID	6				—
	Radiation	5×10^7 R	[ ]A,B,C	7	—	—		—
	Aging	—	REPLACEMENT BY JUNE 30, 1982	—	—	ANALYSIS		REFER TO BASIS #2
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES 14.0, 14.4, 14.6
2. POST ACCIDENT TIME REQUIRED FOR INSTRUMENTATION AND CONTROLS
3. FSAR; FIGURE 7.5-5
4. WYLE REPORT No. 44439-2, REV. A; FIGURE III-4B
5. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q5.82 & Q5.85
6. FSAR; PAGE 6.4-10
7. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
8. (W) LETTER REPORT NS-TMA-2184, 12/21/79
9. PSE&G DOCUMENTATION EVALUATION - EQ 26 (EQ 26.00)

Notes:

A. PEAK AMBIENT TEMPERATURE SEEN BY DEVICE IS LESS THAN MSLB PROFILE DUE TO LOCATION WITHIN INSTRUMENT PANEL (WYLE REPORT No. 44439-2, REV. A)

B. RADIATION EXPOSURE, SEISMIC, THEN SIMULATED ACCIDENT ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: REACTOR COOLANT Identification: PA0039 & PA0088 (UNIT 2) Component: PRESSURE TRANSMITTER Manufacturer: BARTON Model: [ ]A,C PROD. LOT 1 Service: RC SYSTEM PRESSURE Function: POST ACCIDENT MONITORING Accuracy: Spec. ± 10% Demon. [ ]A,B,C Location: PANEL CONTAINMENT	Operating Time	LOCA/MSLB 120 DAYS	15 DAYS IN ADVERSE ENVIR. ≈ 120 DAYS POST-ACCIDENT	1,2	8,9,11	SEQUENTIAL TEST WITH SUPPLEMENTAL ADVERSE ENVIR. TESTING	NONE	—
	Temperature	271/296°F	[ ]A,B,C F-6.4, 5A, 5B	3,4 NOTE A		NOTE B		—
	Pressure	43.2/42.8 PSIA	[ ]A,B,C	5				—
	Relative Humidity	100%	[ ]A,B,C	—				—
	Chemical Spray	0.2 WT.% NAOH 1.2 WT% BORIC ACID	0.17 WT.% NAOH 1.14 WT.% BORIC ACID	6				—
	Radiation	5×10^7 R	[ ]A,B,C	7	—	—		—
	Aging	—	REPLACEMENT BY JUNE 30, 1982	—	10	NRC	—	REFER TO BASIS #2
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; 3.4.0, 3.4.4, 3.4.6
2. POST ACCIDENT TIME REQUIRED FOR INSTRUMENTATION AND CONTROLS
3. FSAR; FIGURE 7.5-5
4. WYLE REPORT No. 44439-2, REV. A; FIGURE III-4B.
5. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q5.82 & Q5.85
6. FSAR; PAGE 6.4-10
7. PSE&G RADIATION CALCULATION PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
8. (W) LETTER REPORT NS-TMA-1950 9/29/78 (EQ18.00)
9. (W) LETTER REPORT NS-TMA-2120, 9/14/79 (EQ18.01)
10. NRC SER FOR SALEM (SUPP. 4, NUREG 0517 4/80; PAGE 3-11

Notes: 11. PSE&G DOCUMENTATION EVALUATION EQ18

A. PEAK AMBIENT TEMPERATURE SEEN BY DEVICE IS LESS THAN MSLB PROFILE DUE TO LOCATION WITHIN INSTRUMENT PANEL (WYLE REPORT No. 44439-2, REV. A)

B. RADIATION EXPOSURE, SEISMIC THEN SIMULATED ACCIDENT ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: PRESSURIZER Identification: LA00BC, LA00B7$ LA-00B* (UNIT 1) Component: DIFFERENTIAL PRESSURE TRANSMITTER Manufacturer: BARTON Model: [ ]A,C PROD. LOT 2 Service: PRESSURIZER LEVEL Function: POST-ACCIDENT MONITORING Accuracy: Spec. ± 20% Demon. [ ] A,B,C Location: INSTR. PANEL CONTAINMENT	Operating Time	LOCA/MSLB 120 DAYS	16 DAYS IN ADVERSE ENVIR. ≈ 120 DAYS POST-ACCIDENT	1, 2	8, 9	SEQUENTIAL TEST	NONE	—
	Temperature	271/296°F	[ ]A,B,C Fig. 2A, 6A, 6B & C	3, 4 NOTE A				—
	Pressure	43.2/42.8 PSIG	[ ] A,B,C	5				—
	Relative Humidity	100 %	[ ] A,B,C	—				—
	Chemical Spray	0.2 WT. % NAOH 1.2 WT. % BORIC ACID	0.17 WT. % NAOH 1.14 WT. % BORIC ACID	6				—
	Radiation	5×10^7 R	[ ] A,B,C	7	—	—		—
	Aging	—	REPLACEMENT BY JUNE 30, 1982	—	—	ANALYSIS	—	REFER TO BASIS #2
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I 4.4, I 4.6
2. POST ACCIDENT TIME REQUIRED FOR INSTRUMENTATION AND CONTROLS
3. FSAR; FIGURE 7.5-5
4. WYLE REPORT No. 44439-2, REV. A; FIGURE III-4B
5. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q5.82 & Q5.85
6. FSAR; PAGE 4.6-10
7. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
8. (W) LETTER REPORT NS-TMA-2184, 12/21/79 (EQ26.0)
9. PSE&G DOCUMENTATION EVALUATION - EQ26.

Notes:

A. PEAK AMBIENT TEMPERATURE SEEN BY DEVICE IS LESS THAN MSLB PROFILE DUE TO LOCATION WITHIN INSTRUMENT PANEL (WYLE REPORT No. 44439-2, REV. A)

B. RADIATION EXPOSURE, SEISMIC, THEN SIMULATED ACCIDENT ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: PRESSURIZER Identification: LA00BB, LA00BT & LA00BB (UNIT 2) Component: DIFFERENTIAL PRESSURE TRANSMITTER Manufacturer: BARTON Model: [ ]A,C PROD. LOT 1 Service: PRESSURIZER LEVEL Function: POST-ACCIDENT MONITORING Accuracy: Spec. ± 20% Demon. [ ]A,B,C Location: INSTR. PANEL CONTAINMENT	Operating Time	LOCA/MSLB 120 DAYS	15 DAYS IN ADVERSE ENVR. ≈ 120 DAYS POST-ACCIDENT	1, 2	8, 9, 11	SEQUENTIAL TEST	NONE	—
	Temperature	271/296°F	[ ]A,B,C Fig. 4, 7A, 7B, 2B	3, 4 NOTE A				—
	Pressure	43.2/42.8 PSIG.	[ ]A,B,C	5				—
	Relative Humidity	100%	[ ]A,B,C	—				—
	Chemical Spray	0.2 WT. % NAOH 1.2 WT % BORIC ACID	0.17 WT. % NAOH 1.14 WT. % BORIC ACID	6				—
	Radiation	5×10^7 R	[ ]A,B,C	7	—	—		—
	Aging	—	REPLACEMENT BY JUNE 30, 1982	—	10	NRC	—	REFER TO BASIS #2
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SAEM EMERGENCY OPERATING PROCEDURES; 3.4, 3.6
2. POST ACCIDENT TIME REQUIRED FOR INSTRUMENTATION & CONTROLS
3. FSAR; FIGURE 7.5-5
4. WYLE REPORT No. 44439-2, REV A; FIGURE III-4B
5. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q5.82 & Q5.85
6. FSAR; PAGE 6.4-10
7. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
8. (W) LETTER REPORT NS-TMA-1958, 9/28/78 (EQ18.00)
9. (W) LETTER REPORT NS-TMA-2120, 9/14/79 (EQ18.01)
10. NRC SER FOR SALEM (SUPP 4) NUREG 0517 4/80; PAGE 3-11
11. PSE&G DOCUMENTATION EVALUATION EQ 18

Notes:

A. PEAK AMBIENT TEMPERATURE SEEN BY DEVICE IS LESS THAN MSLB PROFILE DUE TO LOCATION WITHIN INSTRUMENT PANEL (WYLE REPORT No. 44439-2, REV. A)

B. RADIATION EXPOSURE, SEISMIC, THEN SIMULATED ACCIDENT ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: PRESSURIZER Identification: PA0082, PA0083, PA0084 & PA0087 Component: PRESSURE TRANSMITTER Manufacturer: ROSEMOUNT Model: 1153AGA Service: PRESSURIZER PRESSURE Function: TRIP INPUT TO PROTECTION SYSTEM Accuracy: Spec. ±10% Demon. 6.95% Location: INSTR. PANEL CONTAINMENT	Operating Time	LOCA/MSLB ≤5 MINS.	67 HR. TEST EQUIVALENT 78 DAYS	1	7,8,9	SEQUENTIAL TEST (RADIATION,	NONE	—
	Temperature	271/296°F (NOTE A)	350°F (FIG. 8)	2,3,11	7,8	SEISMIC THEN ACCIDENT ENVIRONMENT SIMULATION)	↓	—
	Pressure	43.2/42.8 PSIG	120 PSIG (FIG. 8)	4	↓	↓	↓	—
	Relative Humidity	100%	100%	—	↓	↓	↓	—
	Chemical Spray	BORIC ACID & NaOH pH > 8.5 >22.5 HRS.	BORIC ACID & NaOH pH 10.5 24 HRS	5	↓	↓	↓	—
	Radiation	5×10^7 R (NOTE B)	$4.4-4.6 \times 10^7$ R	6	7,8,10	↓	↓	REQUIRED DOSE BELOW QUALIFIED DUE TO TIME FRAME NEEDED.
	Aging	—		—		ANALYSIS	BASIS 1	QUALIFIED LIFE DETERMINATION
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	NONE	—	7	—	NONE	—

References:

1. POST-ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. FSAR; FIG. 7.5-5 & Q5.85
3. NRC SER FOR SALEM (SUPP 4) NUREG 0517, 4/80; PG. 3-10
4. FSAR; FIGS. 7.5-4, 14.3-25, PG. 14.3-56 & Q5.85
5. FSAR; PG. 6.4-10 & TABLE 6.2-N
6. PSE&G CALCULATIONS FOR RADIATION-ENVIRON. QUAL.
7. ROSEMOUNT REPORT No. 3788, 3/78
8. PSE&G DOCUMENTATION EVALUATION - EQ11.00
9. PSE&G CALCULATION - EQ 11.01
10. PSE&G ANALYSIS - EQ 11.03
11. GYLE REPORT 44439-2, REV. A; FIG. III-48

Notes:

A. PEAK AMBIENT TEMPERATURE SEEN BY DEVICE IS LESS THAN PEAK MSLB PROFILE (350°F) DUE TO LOCATION WITHIN INSTRUMENT PANEL (GYLE #44439-2, REV A).

B. VALUE IS BASED ON INTEGRATED DOSE 120 DAYS FOLLOWING ACCIDENT. INTEGRATED DOSE FOR TRIP FUNCTION IS CONSIDERABLY LESS $<10^6$ R.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: PRESSURIZER Identification: SV1198 SV1199 (UNIT #1) Component: SOLENOID VALVE Manufacturer: ASCO Model: 8210D2 Service: AIR SUPPLY VALVE FOR PRESSURIZER PORV'S Function: CONTROL Accuracy: Spec. / Demon. N/A Location: CONTAINMENT	Operating Time	LOCA/MSLB		1,2			NONE	NOTE A
	Temperature	271°/350°F		3,4				
	Pressure	43.2/42.8 PSIG		5				
	Relative Humidity	100%		—				
	Chemical Spray	0.2 WT% NAOH 1.2 WT% BORIC ACID		6				
	Radiation	5×10^7 R		7				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURE I4.4
2. NRC IE BULLETIN 80-18
3. FSAR; FIGURE 7.5-5 & RESPONSE TO Q5.82 & Q5.85
4. NRC SER FOR SALEM (SUPP. 4), NUREG 0517 4/80; PAGE 3-10
5. FSAR; FIGURE 14.3-25, PAGE 14.3-56 & RESPONSE TO Q5.82 & Q5.85
6. FSAR; PAGE 6.4-10
7. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A. REFER TO BASIS #3

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: PRESSURIZER Identification: 2PR47, 2PR48 (UNIT 2) Component: SOLENOID VALVE Manufacturer: MAROTTA Model: MV225C Service: PRESSURIZER POWER OPERATED RELIEF VALVE Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: CONTAINMENT	Operating Time							
	Temperature							
	Pressure		NO QUAL. REQT'S					
	Relative Humidity		(SEE NOTE A)					
	Chemical Spray							
	Radiation							
	Aging	—						
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

Notes:

A. REFER TO BASIS #3

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: PRESSURIZER Identification: Component: LIMIT SWITCH Manufacturer: NAMCO Model: EA-180 Service: POSITION INDICATOR FOR VALVES Function: POSITION INDICATION OF PORV's PR1, PR2 Accuracy: Spec. N/A Demon. Location: CONTAINMENT	Operating Time	LOCA/MSLB	30 DAY TEST EQUIVALENT >120 DAYS	1	7, 8, 9	SEQUENTIAL TEST	NONE	NOTE A
	Temperature	271°/350°F	340°F FIG. 12	2, 3	7, 8			
	Pressure	432/42.8 PSIG	70 PSIG FIG. 12	4				
	Relative Humidity	100%	100%	—				
	Chemical Spray	BORIC ACID NAOH pH > 8.5 >22.5 Hrs.	BORIC ACID NAOH pH 10 4 DAYS	5				
	Radiation	5×10^7 R	2×10^8 R	6				
	Aging	—	1.5 YRS INITIAL GASKET REPLACEMENT THERE AFTER 40 YRS	—	7, 10, 11	TEST AND ANALYSIS		REFER TO NOTE B FOR MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	NONE	N/A	7	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURE ; E4.4
2. FSAR; FIGURE 7.6-6 & RESPONSE TO Q5.82 AND Q 5.85
3. NRC SER FOR SALEM (SUPP. 4), NUREG 0517 4/80; PAGE 3-10
4. FSAR; FIGURE 14.3-25, PAGE M.3-56 & RESPONSE TO Q5.82 AND Q 5.85
5. FSAR; PAGE 6.4-10
6. PSE&G RADIATION CACULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
7. ACME CLEVELAND DEVELOPMENT CO. REPORT 9/78 "QUALIFICATION OF EA-180 SWITCH." (EQ13.00)
8. PSE&G DOCUMENTATION EVALUATION - EQ 13
9. PSE&G CALCULATION EQ 13.01
10. WYLE REPORT 17448-17 (EQ13.06)
11. PSE&G AGING REVIEW EQ13.07

Notes:

A. REFER TO BASIS 4

B. AFTER INITIAL REPLACEMENT OF TOP AND BOTTOM GASKETS AFTER 1.5 YEARS, PREVENTITIVE MAINTENANCE WILL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION EA-189-90051. ANALYSIS INDICATES SPECIAL MAINTENANCE NOT REQUIRED AND PREVENTITIVE IS UNDER REVIEW TO EXTEND TIME FRAMES.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: REFER TO MASTER LIST PAGE 40 Component: DIFFERENTIAL PRESSURE TRANSMITTER Manufacturer: ROSEMOUNT Model: 1153AHA Service: STEAM FLOW Function: TRIP INPUT FOR PROTECTION SYSTEM AND ACCIDENT INFO Accuracy: Spec. ± 10% Demon. 6.95% Location: INSTR. PANEL CONTAINMENT	Operating Time	MSLB < 1 HR.	67 HR TEST EQUIVALENT 78 DAYS	1, 2	8, 9, 10	SEQUENTIAL TEST (RADIATION,	NONE	—
	Temperature	296°F (NOTE A)	350°F (FIG. 8)	3, 4, 12	8, 9	SEISMIC THEN ACCIDENT SIMULATION)	↓	—
	Pressure	42.8 PSIG	120 PSIG (FIG. 8)	5	↓	↓	↓	—
	Relative Humidity	100%	100%	—	↓	↓	↓	—
	Chemical Spray	BORIC ACID & NaOH pH > 8.5 > 22.5 HRS	BORIC ACID & NaOH pH 10.5 24 HRS	6	↓	↓	↓	—
	Radiation	5×10^7 R (NOTE B)	4.4 - 4.6 $\times 10^7$ R	7	8, 9, 11	↓	↓	REQUIRED DOSE BELOW QUALIFIED DUE TO TIME FRAME NEEDED.
	Aging	—		—		ANALYSIS	BASIS 1	QUALIFIED LIFE DETERMINATION
Flood Level El 83'-1" Above Flood Level: YES	Submergence	N/A	NONE	—	8	—	NONE	—

References:

1. POST ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. SALEM EMERGENCY OPERATING PROCEDURES I4.6
3. FSAR; Q5.85 & Q5.82
4. NRC SER FOR SALEM (SUPP. 4) NUREG 0517, 4/80; A.3-10
5. FSAR; Q5.85 & Q5.82
6. FSAR; PG. 6.4-10 & TABLE 6.2-11
7. PSE&G CALCULATIONS FOR RADIATION ENVIRON. QUAL
8. ROSEMOUNT REPORT No. 3788, 3/78
9. PSE&G DOCUMENTATION EVALUATION - EQ11.00
10. PSE&G CALCULATION - EQ 11.01
11. PSE&G ANALYSIS - EQ 11.03
12. WYLE REPORT 44439-2, REV. A; FIG III-48

Notes:

A. PEAK AMBIENT TEMPERATURE SEEN BY DEVICE IS LESS THAN PEAK MSLB PROFILE (350°F) DUE TO LOCATION WITHIN INSTRUMENT PANEL (WYLE 44439-2, REV. A).

B. VALUE IS BASED ON INTEGRATED DOSE 120 DAYS FOLLOWING ACCIDENT. INTEGRATED DOSE FOR FUNCTION NEEDED IS CONSIDERABLY LESS < 10^7 R.

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: VARIOUS - UNIT 1 (REFER TO MASTER LIST) Component: DIFFERENTIAL PRESSURE TRANSMITTER Manufacturer: BARTON Model: [ ]A,C PROD. LOT 2 Service: STM GEN. NARROW RANGE WATER LEVEL Function: TRIP INPUT FOR PROTECTION SYSTEM AND POST ACCIDENT MONITORING Accuracy: ST/LT Spec. +10%/±20% Demon. [ ] AC Location: INSTR. PANEL CONTAINMENT	Operating Time	LOCA/MSLB 120 DAYS	16 DAYS IN ADVERSE ENVIR. ≈120 DAYS POST ACCIDENT	1, 2, 3	9, 10	SEQUENTIAL TEST NOTE B	NONE	—
	Temperature	271/296°F	[ ]A,B,C FIG. 2, 9A, 9B, 9C	4, 5 NOTE A				—
	Pressure	43.2/42.8 PSIG	[ ]A,B,C	6				—
	Relative Humidity	100%	[ ]A,B,C	—				—
	Chemical Spray	0.2 WT. % NA OH 1.2 WT. % BORIC ACID	0.17 WT % NA OH 1.14 WT % BORIC ACID	7				—
	Radiation	5×10^7 R	[ ]A,B,C	8	—	—		—
	Aging	—	REPLACEMENT BY JUNE 30, 1982	—	—	ANALYSIS	—	REFER TO BASIS # 2
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR; PAGE 14.3-19, M.5-24
2. POST ACCIDENT TIME REQUIRED FOR INSTRUMENTATION AND CONTROLS
3. SALEM EMERGENCY OPERATING PROCEDURE I4, 2
4. FSAR; FIGURE 7.5-5
5. WYLE REPORT No. 44439-2, REV. A; FIGURE III-4B
6. FSAR; FIGURE 14.3-25, PAGE M.3-56 AND RESPONSE TO Q 5.82 & Q 5.83
7. FSAR; PAGE 6, 4-10
8. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
9. (W) LETTER REPORT NS-TMA-2184 12/21/79 (EQ 26.00)
10. PSE&G DOCUMENTATION EVALUATION EQ 26

Notes:

A. PEAK AMBIENT TEMPERATURE SEEN BY DEVICE IS LESS THAN MSLB PROFILE DUE TO LOCATION WITHIN INSTRUMENT PANEL (WYLE REPORT No. 44439-2, REV. A

B. RADIATION EXPOSURE, SEISMIC THEN SIMULATED ACCIDENT ENVIRONMENT.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: VARIOUS - UNIT 2 (REFER TO MASTER LIST) Component: DIFFERENTIAL PRESSURE TRANSMITTER Manufacturer: BARTON Model: [ ]A,C PROD. LOT 1 Service: STM. GEN. NARROW RANGE WATER LEVEL Function: TRIP INPUT FOR PROTECTION SYSTEM AND POST ACCIDENT MONITORING Accuracy: ST/LT Spec. ±10%/±20% Demon. [ ] A,B,C Location: INSTR. PANEL CONTAINMENT	Operating Time	LOCA/MSLB 120 DAYS	15 DAYS IN ADVERSE ENVIRONMENT ≈120 DAYS POST ACCIDENT	1,2,3	9,10,12	SEQUENTIAL TEST WITH SUPPLEMENTAL ADVERSE ENVIR. TESTING NOTE B	NONE	—
	Temperature	271/296°F	[ ]A,B,C FIG. 4, 2B, 7A, 7B	4,5 NOTE A				—
	Pressure	43.2/42.8 PSIG	[ ]A,B,C	6				—
	Relative Humidity	100%	[ ]A,B,C					—
	Chemical Spray	0.2 WT% NAOH 1.2 WT% BORIC ACID	0.17 WT.% NAOH 1.14 WT% BORIC ACID	7				—
	Radiation	5×10^7 R	[ ]A,B,C	8	—	—		—
	Aging	—	REPLACEMENT BY JUNE 30, 1982	—	11	NRC	—	REFER TO BASIS #2
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR; PAGE 14.3-19, 14.5-24
2. POST ACCIDENT TIME REQUIRED FOR INSTRUMENTATION AND CONTROLS
3. SALEM EMERGENCY OPERATING PROCEDURE ; I4.2
4. FSAR; FIGURE 7.5-5
5. WYLE REPORT NO. 44439-2, REV. A; FIGURE III-4B
6. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q.S. 82 & Q5.85
7. FSAR: PAGE 6.4-10
8. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
9. (W) LETTER REPORT NS-TMA-1950, 9/27/78 (EQ18.00)
10. (W) LETTER REPORT NS-TMA-2120, 9/19/79 (EQ18.01)
11. NRC SER FOR SALEM (SUPP. 4) NUREG 0517 4/80; PAGE 3-11
12. PSE&G DOCUMENTATION EVALUATION EQ 18

Notes:

A. PEAK AMBIENT TEMPERATURE SEEN BY DEVICE IS LESS THAN MSLB PROFILE DUE TO LOCATION WITHIN INSTRUMENT PANEL (WYLE REPORT No. 44439-2, REV. A)

B. RADIATION EXPOSURE, SEISMIC THEN SIMULATED ACCIDENT ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: LA0009, LA0015, LA0021, LA0027 Component: DIFFERENTIAL PRESSURE TRANSMITTER Manufacturer: BARTON Model: # 384 Service: STM. GEN. WIDE RANGE WATER LEVEL Function: POST ACCIDENT MONITORING Accuracy: Spec. Demon. Location: INSTR. PANEL CONTAINMENT	Operating Time	LOCA/MSLB		1			BASIS #5	NO DOCUMENT-ATION AVAILABLE
	Temperature	271/296°F		2,3 NOTE A				INSTRUMENTS WILL BE REPLACED
	Pressure	43.2/42.8 PSIG		4				
	Relative Humidity	100%		——				
	Chemical Spray	0.2 WT % N OH 1.2 WT % BORIC ACID		5				
	Radiation	5×10^7 R		6				
	Aging	——		——			——	——
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	——

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; 14.0, 14.4, 14.6
2. FSAR; FIGURE 7.5-5
3. WYLE REPORT NO. 44439-2, REV. A; FIGURE III-48
4. FSAR; FIGURE 14.3-25, PAGE 14.3-56 & RESPONSE TO Q5.82 & Q5.85
5. FSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
6. FSAR; PAGE 6.4-10

Notes:

A PEAK AMBIENT TEMPERATURE SEEN BY DEVICE IS LESS THAN MSLB PROFILE DUE TO LOCATION WITHIN INSTRUMENT PANEL (WYLE REPORT #44439-2, REV. A)

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ACCUMULATOR Identification: LA0228, LA0229, LA0233, LA0234, LA0237, LA0238, LA0241, LA0242 Component: DIFFERENTIAL PRESSURE TRANSMITTER Manufacturer: BARTON Model: 384 Service: LEVEL INDICATION Function: ACCUMULATOR LEVEL Accuracy: Spec. N/A Demon. Location: CONTAINMENT	Operating Time	LOCA/MSLB		1			BASIS #24	NO DOCUMENTATION AVAILABLE
	Temperature	271°/350°F		3,4				
	Pressure	43.2/42.8 PSIG		5				
	Relative Humidity	100%						
	Chemical Spray	.2wt% NaOH 1.2wt% BORIC ACID		6				
	Radiation	$< 5 \times 10^7$ R		2			—	—
	Aging	—	—	—	—	—	—	—
Flood Level El: 83'-1" Above Flood Level: No	Submergence	—	—	—	—	—	NOTE A	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I4.0, 4.4, 4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
3. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 & Q5.85
4. NRC SER FOR SALEM (SUPP. 4) NUREG 0517, 4/80; PAGE 3-10
5. FSAR; FIGURE 14.3-25 PAGE 14.3-56 AND RESPONSE TO Q5.82 & Q5.85
6. FSAR; PAGE 6.4-10

Notes:

A. REFER TO FSAR; Q6.28

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ACCUMULATORS Identification: PA0243, 244, 239, 240 PA0235, 236, 230, 231 Component: PRESSURE TRANSMITTER Manufacturer: FISCHER & PORTER Model: 50EP1031BCXA-NS Service: ACCUMULATOR PRESSURE Function: Accuracy: Spec. Demon. N/A Location: CONTAINMENT	Operating Time	LOCA/MSLB		1			BASIS #24	INSUFFICIENT DOCUMENTATION
	Temperature	271°/350°F		3, 4				
	Pressure	43.2/42.8 PSIG		5				
	Relative Humidity	100%		—				
	Chemical Spray	0.2 WT % NaOH 1.2 WT % BORIC ACID		6				
	Radiation	<5X10⁷R		2				
	Aging	—	—	—	—	—	—	—
Flood Level El: 83'-1" Above Flood Level: No	Submergence	—	—	—	—	—	NOTE A	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I 4.0, 4.4, 4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 AND Q5.85
4. NRC SER FOR SALEM (SUPP. 4) NUREG 0517, 4/80; PAGE 3-10
5. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q5.82 AND Q5.85
6. FSAR; PAGE 6,4-10

Notes:

A. REFER TO FSAR; Q 6.28

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: VARIOUS (REFER TO MASTER LIST) Component: E/P Manufacturer: FISCHER-GOVERNOR Model: 546 Service: CONTROL FOR ATMOS. RELIEF VALVES MS10's Function: CONTROL Accuracy: Spec. Demon. N/A Location: INSTR. PANEL INBOARD/OUTBOARD PENET. AREAS	Operating Time	MSLB		1			NONE	NOTE A
	Temperature	320°F						
	Pressure	5.8 PSIG						
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$< 10^5$ R		2				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE&G CALCULATIONS PER HEBA INFORMATION IN FSAR SECTION 14.5
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A. REFER TO BASIS #6.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

Revision 1

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: REFER TO MASTER LIST PAGES Component: PRESSURE TRANSMITTER Manufacturer: ROSEMOUNT Model: 1153 AGA Service: STEAM PRESSURE Function: TRIP INPUT FOR PROTECTION SYSTEM & POST ACCIDENT MONITORING Accuracy: Spec. ± 10%, Demon. 6.95% Location: INSTR. PANEL INBOARD/OUTBOARD PENET. AREA	Operating Time	LOCA/MSLB 14 DAYS	67 HR TEST EQUIVALENT >10 DAYS	1,2	5,6,7	SEQUENTIAL TEST (RADIATION,	NONE	DEVIATION ACCEPTABLE VIA ANALYSIS (NOTE B)
	Temperature	320°F (NOTE A)	350 °F (FIG. 8)	3	5,6	SEISMIC THEN ACCIDENT SIMULATION)		—
	Pressure	5.8 PSIG	120 PSIG (FIG. 8)	3				—
	Relative Humidity	100%	100%	—				—
	Chemical Spray	N/A	BORIC ACID & NAOH pH 10.5 24 HRS	—				—
	Radiation	$<10^5$ R	4.4 - 4.6 $\times 10^7$ R	4				—
	Aging	—		—		ANALYSIS	BASIS 1	QUALIFIED LIFE DETERMINATION
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	—	5	—	NONE	—

References:

1. POST ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. SALEM EMERGENCY OPERATING PROCEDURES; I4.0, I4.4, I4.6
3. PSE&G CALCULATIONS PER NEBA INFORMATION IN FSAR SECT. 14.5
4. PSE&G CALCULATIONS FOR RADIATION-ENVIRON QUAL.
5. ROSEMOUNT REPORT No. 3788, 3/78
6. PSE&G DOCUMENTATION EVALUATION - EQ 11.00
7. PSE&G ANALYSIS - EQ 11.02

Notes:

A. PEAK TEMPERATURE SHOULD BE LOWER BECAUSE OF THERMAL PROTECTION AFFORDED BY INSTRUMENT PANEL.

B. DEVICES EXCEED 120 DAYS OPERATION FOR ACCIDENTS WITHIN CONTAINMENT (RADIATION EXPOSURE). MSLB WITHIN EITHER INBOARD OR OUTBOARD PEN. AREAS WILL AFFECT PRESSURE SENSORS FOR 2 STM. GEN. ACCESS AVAILABLE FOR REPAIRS, ETC.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: PA8593, PA8596, PA8594, PA8595 Component: PRESSURE TRANSMITTER Manufacturer: FISCHER-PORTER Model: [ ]A,C Service: STEAM PRESSURE CONTROL FOR ATM RELIEF VALVES MS10'S Function: CONTROL Accuracy: Spec. Demon. Location: INSTR. PANEL INBOARD/OUTBOARD PEN. AREAS	Operating Time	LOCA/MSLB		1	4	TEST	NONE	NOTE B NOTE C
	Temperature	320°F	[ ]A,B,C	2 NOTE A				
	Pressure	5.8 PSIG	[ ]A,B,C	2				
	Relative Humidity	100%	[ ]A,B,C	—				
	Chemical Spray	N/A	[ ]A,B,C	—				
	Radiation	$<10^5$R	[ ]A,B,C	3				
	Aging	—		—			BASIS #1	ANALYSIS MUST BE COMPLETED
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURE ; I4.4
2. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
4. WCAP 7410-L VOL. 1, 12/70

Notes:

A. THE PEAK TEMPERATURE SHOULD BE LOWER BECAUSE OF THERMAL PROTECTION AFFORDED BY INSTRUMENT PANEL (RISE TIME).

B. (W) DOCUMENTATION IS NOT A SEQUENTIAL TEST (SEPARATE EFFECTS). DATA IS STILL UNDER REVIEW CONSIDERING THERMAL PROTECTION OF PANEL REGARDING PEAK TEMPERATURE DIFFERENCES

C. REFER TO BASIS 6

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: SV0269, 279, 278, 288 (UNIT 2 ONLY) Component: SOLENOID VALVE Manufacturer: ASCO Model: HT8321A2 Service: CONTROL FOR MAIN STEAM ISOLATION VALVES Function: CONTROL Accuracy: Spec. Demon. N/A Location: INBOARD/OUTBOARD PEN AREAS	Operating Time	MSLB <5SECS		1			BASIS #8A	DOCUMENTATION INSUFFICIENT CONSIDERING ENVIR. QUAL. REQUIREMENTS
	Temperature	320°F		2 Note A				OF 79-01B AND NUREG 0588
	Pressure	5.8 PSIG		2				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$<10^5$ R		3	4	ENGINEERING ANALYSIS	—	—
	Aging	—		—				
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR; TABLE 5.4-1
2. PSE & G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
3. P.S.E&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
4. RADIATION EXPOSURE IS FOR 120 DAY ACCIDENT PLUS 40 YEARS AND WOULD BE MINIMAL FOR MATTER OF SECONDS FOLLOWING INCIDENT.

Notes:

A. SOLENOIDS LOCATED IN INSTRUMENT PANELS WILL NOT EXPERIENCE SUCH A HIGH TEMPERATURE DUE TO THERMAL PROTECTION AFFORDED BY THE PANEL. DEMONSTRATED IN WYLE LABS. REPORT No. 44439-2, REV. A. AND IS APPLICABLE FOR SHORT TIME FRAMES OF PEAK TEMPERATURE.

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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: SV0269, SV0587, SV0279, SV0581, SV0278, SV0585, SV0288, SV0583 } UNIT #1 Component: SOLENOID VALVES Manufacturer: ASCO Model: FT8321A2 Service: PILOT VALVES FOR MAIN STEAM DRAIN & WARMUP ISOLATION VALVES Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: PEN. INBOARD/OUTBOARD	Operating Time	MSLB < 5 SEC.		1			BASIS #8-A BASIS #8-C	INSUFFICIENT DOCUMENTATION
	Temperature	320°F		2 NOTE A				
	Pressure	5.8 PSIG		2				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	< 10^5 R		3				
	Aging						—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR; TABLE 5.4-1
2. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A. SOLENOIDS LOCATED IN INSTRUMENT PANELS WILL NOT EXPERIENCE SUCH A HIGH TEMP. DUE TO THERMAL PROTECTION AFFORDED BY THE PANEL DEMONSTRATED IN WYLE LABS. REPORT #44439-2, REV. A & IS APPLICABLE FOR SHORT TIME FRAMES OF PEAK TEMP.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: PAT FOR VALVES 21MS18-24MS18 (UNIT 2) Component: Manufacturer: LEEDS + NORTHRUP Model: 10973-3 Service: POSITIONER FOR VALVE Function: VALVE CONTROL Accuracy: Spec. Demon. Location: INBOARD/ OUTBOARD PEN. AREAS	Operating Time	MSLB		1, 2			NONE	NOTE A
	Temperature	320°F		3				
	Pressure	5.8 PSIG		3				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$<10^5$ R		4				
	Aging	—		—				
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR, TABLE 5.4-1
2. SALEM EMERGENCY OPERATING PROCEDURES; I4.4, I4.6
3. PSE+G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
4. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A. REFER TO BASIS #9

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: VARIOUS (REFER TO MASTER LIST) Component: LIMIT SWITCH Manufacturer: MASONEILAN Model: 496-2 Service: POSITION INDICATOR FOR VALVES Function: OPERATOR INDICATION & VALVE CONTROL (REFER TO MASTER LIST) Accuracy: Spec. Demon. N/A Location: INBOARD/ OUTBOARD PEN AREAS	Operating Time	MSLB		1, 2			BASIS #10 A,B	NO DOCUMENTATION AVAILABLE
	Temperature	320°F		3				
	Pressure	5.8 PSIG		3				
	Relative Humidity	100 %		—				
	Chemical Spray	N/A		—				
	Radiation	$<10^5$ R		4				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR; TABLE 5.4-1
2. SALEM EMERGENCY OPERATING PROCEDURES; I4.4, I4.6
3. PSE&G CALCULATIONS PER NEBA INFORMATION IN FSAR SECTION 14.5
4. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: II-14MS167 Component: LIMIT SWITCH Manufacturer: NAMCO Model: D2400X-2 Service: POSITION INDICATOR FOR VALVES Function: OPERATOR INDICATION Accuracy: Spec. N/A Demon. Location: PEN. AREAS INBOARD/OUTBOARD	Operating Time	MSLB		1, 2			BASIS # 10-B	NO DOCUMENTATION AVAILABLE
	Temperature	320°F		3				
	Pressure	5.8 PSIG		3				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$< 10^5$ R		4				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	None	N/A

References:

1. FSAR; TABLE 5.4-1
2. SALEM EMERGENCY OPERATING PROCEDURES; I-4.4, I-4.6
3. PSE&G CALCULATIONS PER NEBA, INFORMATION IN FSAR SECTION 14.5
4. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.

Notes:

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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: CMC-MS167's (REFER TO MASTER LIST) Component: CONTROL SWITCH (CMC) Manufacturer: MICRO SWITCH Model: 910 PGD533 Service: LOCAL CONTROL OF MS167 HYDRAULIC PUMP Function: OPEN VALVE CONTROL Accuracy: Spec. Demon. N/A Location: INBOARD/ OUTBOARD PEN AREAS	Operating Time	MSLB		1, 2			BASIS #11	NO DOCUMENTATION AVAILABLE
	Temperature	320 °F		3				
	Pressure	5.8 PSIG		3				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	<10^5 R		4				
	Aging	—		—				
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR; TABLE 5.4-1
2. SALEM EMERGENCY OPERATING PROCEDURES; I4.4, I4.6
3. PSE&G CALCULATIONS PER HEBA INFORMATION IN FSAR SECTION 14.5
4. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: (REFER TO MASTER LIST) Component: TERMINAL BLOCK Manufacturer: CINCH JONES Model: Service: ELECTRICAL CONNECTION Function: CMC (MSIG7's) CONTROL Accuracy: Spec. Demon. N/A Location: INBOARD/ OUTBOARD PEN. AREAS	Operating Time	MSLB		1, 2			BASIS #11	NO DOCUMENTATION AVAILABLE
	Temperature	320°F		3				
	Pressure	5.8 PSIG		3				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$<10^5$ R		4				
	Aging	—		—				
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR; TABLE 5.4-1
2. SALEM EMERGENCY OPERATING PROCEDURES; 14.4, 14.6
3. PSE&G CALCULATIONS PER HEBA INFORMATION IN FSAR SECTION 14.5
4. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: AUXILIARY FEEDWATER Identification: FA1087, FA1091 & FA1097 Component: DIFFERENTIAL PRESSURE TRANSMITTER Manufacturer: FISCHER-PORTER Model: [ ]A,C Service: #11, 12, 14 SG AUX. FW FLOW Function: POST ACCIDENT MONITORING Accuracy: Spec. Demon. Location: INBOARD & OUTBOARD PEN. AREA	Operating Time	MSLB		1,2	5 6	TEST	BASIS #12	INSUFFICIENT DOCUMENTATION
	Temperature	320° F	[ ]A,B,C 320°F	3	5 6			
	Pressure	5.8 PSIG	[ ]A,B,C 75.3 PSIG	3	5 6			
	Relative Humidity	100%	[ ]A,B,C 100%	—	5 6			
	Chemical Spray	N/A	[ ]A,B,C N/A	—	5 6			
	Radiation	$<10^5$ R	[ ]A,B,C $>10^6$ R	4	5 6			
	Aging	—	—	—	—	—		
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURE ; I4.0
2. NUREG 0578 REQUIREMENTS; ITEM 2.1.7b
3. PSE & G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
4. PSE & G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
5. WCAP 7910-L VOL 1, 12/70
6. SUMMARY REPORT OF NUS CORP. 'EPRI EQUIPMENT QUALIFICATION PROGRAM - RESPONSES TO NRC IE BULLETIN 79-01'

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: AUXILIARY FEEDWATER Identification: FA1095 Component: DIFFERENTIAL PRESSURE TRANSMITTER Manufacturer: FISCHER-PORTER Model: [ ]A,C Service: #13 SG AUX. FW. FLOW Function: POST ACCIDENT MONITORING Accuracy: Spec. Demon. Location: INSTR. PANEL MECH. PEN. -78	Operating Time	HEBA		1, 2	5 6	TEST	BASIS #12	INSUFFICIENT DOCUMENTATION
	Temperature	212°F	[ ]A,B,C 320°F	3 NOTE A	5 6			
	Pressure	1 PSIG	[ ]A,B,C 75.3 PSIG	3	5 6			
	Relative Humidity	100%	[ ]A,B,C 100%	—	5 6			
	Chemical Spray	N/A	[ ]A,B,C N/A	—	5 6			
	Radiation	$<5\times10^7$ R	[ ]A,B,C $>10^6$ R	4	5 6			
	Aging	—	—	—	—	—	—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURE ; I4.0
2. NUREG 0578 REQUIREMENTS; ITEM 2.1.7b
3. PSE & G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
4. PSE & G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
5. WCAP 7410-L, VOL. 1, 12/70
6. SUMMARY REPORT OF NUS CORP. "EPRI EQUIPMENT QUALIFICATION PROGRAM - RESPONSES TO NRC IE BULLETIN 79-01"

Notes:

A. THE PEAK TEMPERATURE SHOULD BE LOWER BECAUSE OF THERMAL PROTECTION AFFORDED BY INSTRUMENT PANEL (RISE TIME)

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: AUXILIARY FEEDWATER Identification: FA3969, FA3970 & FA3972 Component: SQUARE ROOT EXTRACTOR (NOTE A) Manufacturer: FISCHER-PORTER Model: 50ES3212 Service: #1, 12, 19SG AUX. FW. FLOW Function: POST ACCIDENT MONITORING Accuracy: Spec. Demon. Location: INSTR. PANEL INBOARD/OUTBOARD PEN. AREAS	Operating Time	MSLB		1, 2			BASIS #12	INSUFFICIENT DOCUMENTATION
	Temperature	320°F		3 NOTE B				
	Pressure	5.8 PSIG		3				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$<10^5$ R		4				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I4.0
2. NUREG-0578 REQUIREMENTS; 2.1.7b
3. PSE&G CALCULATIONS PER HEBA; INFORMATION IN FSAR SECTION 14.5
4. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.

Notes:

A. DEVICE ALSO INCLUDES A DOUBLE POLE SINGLE THROW CUTOUT SWITCH MANUFACTURED BY CUTLER-HAMMER.
B. PEAK TEMPERATURE SHOULD BE LOWER BECAUSE OF THERMAL PROTECTION AFFORDED BY INSTRUMENT PANEL (RISE TIME).

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: AUXILIARY FEEDWATER Identification: FA 3971 Component: SQUARE ROOT EXTRACTOR (NOTE A) Manufacturer: FISHER-PORTER Model: 50ES3212 Service: #13 SG AUX. FW. FLOW Function: POST ACCIDENT MONITORING Accuracy: Spec. Demon. Location: INSTR. PANEL MECH. PEN.-78'	Operating Time	HEBA		1, 2			BASIS #12	INSUFFICIENT DOCUMENTATION
	Temperature	212°F		3 (NOTE B)				
	Pressure	1 PSIG		3				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$< 5 \times 10^7$ R		4				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURE ; I4.0
2. NUREG-0578 REQUIREMENTS; ITEM 2.1.6
3. P.S.E&G CALCULATIONS PER HEBA; INFORMATION IN FSAR SECTION 14.5
4. P.S.E&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.

Notes:

A. DEVICE ALSO INCLUDES A DOUBLE POLE SINGLE THROW CUTOUT SWITCH MANUFACTURED BY CUTLER-HAMMER.

B. PEAK TEMPERATURE SHOULD BE LOWER BECAUSE OF THERMAL PROTECTION AFFORDED BY INSTRUMENT PANEL (RISE TIME)

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CHRG./LETDOWN Identification: (W) SPIN #PNJCSAPCH (UNIT #2) #PSECSAPCH (UNIT #1) Component: CHARGING/SAFETY INJECTION PUMP MOTOR Manufacturer: WESTINGHOUSE (BUFFALO) Model: Service: SUPPLEMENTAL COOLING TO RCS. Function: DRIVING POWER TO CHARGING/SAFETY INJECTION PUMP Accuracy: Spec. N/A Demon. Location: AUX. BLDG. 84'	Operating Time	RECIRC. 120 DAYS	> 120 DAYS	1, 2	4, 5	TEST	NONE	—
	Temperature	N/A	N/A	N/A	N/A	N/A	N/A	—
	Pressure	↓	↓	↓	↓	↓	↓	—
	Relative Humidity	↓	↓	↓	↓	↓	↓	—
	Chemical Spray	↓	↓	↓	↓	↓	↓	—
	Radiation	< 5 x 10^7 R Note B	1.4 x 10^8 R	3	4, 5	TEST	NONE	—
	Aging	—	MOTOR INSULATION > 40 YEARS	—	4, 5, 7, 8	COMPONENT TEST	↓	REFER TO NOTE A FOR MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	—	—

References:

1. SALEM OPERATING PROCEDURES; I4.0, I4.4, I4.6
2. FSAR; CHP. 6
3. RESULTS OF PS.E1G CALCULATIONS IN RESPONSE TO TMI EVALUATIONS (SHIELDING)
4. WESTINGHOUSE REPORT WCAP-8754 (EQ16.00)
5. PSE1G DOCUMENTATION EVALUATION - EQ16
6. WCAP-7410-L VOL. II (EQ16.01)
7. WCAP-8754 REV. 1 (EQ16.02)
8. PSE1G SALEM LUBRICATION MANUAL

Notes:

A. PREVENTITIVE MAINTENANCE REQUIRES MOTOR BEARING OIL REPLACEMENT EVERY 12 MONTHS.

B. RADIATION DOSE IS WORST CASE GENERAL DOSE IN AREA. ACTUAL DOSE FOR PUMP MOTOR WOULD BE 5.1×10^5 R.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: SAFETY INJECTION Identification: (W) SPAN "PNT-SIAPS1 (UNIT #2) (W) SPAN "PSE-SIAPS1 (UNIT #1) Component: SAFETY INJECTION PUMP MOTOR Manufacturer: WESTINGHOUSE (BUFFALO) Model: Service: SUPPLEMENTAL COOLING TO RCS Function: DRIVING POWER TO SAFETY INJECTION PUMP Accuracy: N/A Spec. Demon. Location: AUX. BLDG. 84'	Operating Time	RECIRC. 120 DAYS	> 120 DAYS	1, 2	4, 5	TEST	NONE	———
	Temperature	N/A	N/A	N/A	N/A	N/A	N/A	———
	Pressure	↓	↓	↓	↓	↓	↓	———
	Relative Humidity	↓	↓	↓	↓	↓	↓	———
	Chemical Spray	———	———	———	———	———	———	———
	Radiation	< 5 x 10^7 R NOTE B	1.4 x 10^8 R	3	4, 5	TEST	NONE	———
	Aging	———	MOTOR INSULATION > 40 YEARS	———	4, 5, 7, 8	COMPONENT TEST ANALYSIS	↓	REFER TO NOTE A FOR MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	N/A	NONE	N/A	———	———

References:

1. SALEM OPERATING PROCEDURES; I 4.0, I 4.4, I 4.6
2. FSAR; CNP 6
3. RESULTS OF AS.E16 CALCULATIONS IN RESPONSE TO TMI. EVALUATIONS (SHIELDING)
4. WESTINGHOUSE REPORT WCAP-8754 (EQ 16.00)
5. PSE16 DOCUMENTATION EVALUATION-EQ 16
6. WCAP 7410-L VOL. II (EQ 16.01)
7. WCAP-8754 REV. 1 (EQ 16.02)
8. AE16 SALEM LUBRICATION MANUAL

Notes:

A. PREVENTITIVE MAINTENANCE REQUIRES MOTOR BEARING OIL REPLACEMENT EVERY 12 MONTHS.

B. RADIATION DOSE IS WORST CASE GENERAL DOSE IN AREA. ACTUAL DOSE FOR PUMP MOTOR WOULD BE 1.53×10^6 R.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: RESIDUAL HEAT REMOVAL Identification: (W) SPIN PSE-ACAPRN (UNIT #1) (W) SPIN PNT-ACAPRN (UNIT #2) Component: RHR PUMP MOTOR	Operating Time	RECIRC.	> 120 DAYS	1, 2	4, 5	TEST	NONE	—
	Temperature	N/A	N/A	N/A	N/A	N/A	N/A	—
Manufacturer: WESTINGHOUSE (BUFFALO)	Pressure							—
Model:	Relative Humidity							—
Service: POST LOCA DECAY HEAT REMOVAL	Chemical Spray	—	—	—	—	—	—	—
Function: DRIVING POWER TO RHR PUMP	Radiation	$< 6 \times 10^6$ R	1.4×10^8 R	3	4, 5	TEST	NONE	—
Accuracy: N/A Spec. Demon.	Aging	—	MOTOR INSULATION > 40 YEARS	—	4, 5, 7, 8	COMPONENT TEST ANALYSIS		REFER TO NOTE A FOR MAINTENANCE
Location: AUX. BLDG. 45'								
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	—	—

References:

1. SALEM OPERATING PROCEDURES; I4.0, I4.4, I4.6
2. FSAR; CNP 9, CNP 6.
3. RESULTS OF PS. E&G CALCULATIONS IN RESPONSE TO TMI EVALUATIONS (SHIELDING)
4. WESTINGHOUSE REPORT WCAP-8754 (EQ 16.00)
5. PSE&G DOCUMENTATION) EVALUATION EQ 16
6. WCAP 7410-L VOL. II (EQ 16.01)
7. WCAP-8754 REV. 1 (EQ16.02)
8. PSE&G SALEM LUBRICATION MANUAL.

Notes:

A. PREVENTITIVE MAINTENANCE REQUIRES MOTOR BEARING OIL REPLACEMENT EVERY 6 MONTHS.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: RHR Identification: VARIOUS (REFER TO MASTER LIST) Component: E/P CONVERTER Manufacturer: FISHER Model: 546 Service: CONTROL FOR VALVES 1RH20, 11RH1B, 12RH1B Function: VALVE CONTROL Accuracy: Spec. N/A Demon. Location: AUX BLDG.-45'	Operating Time	RECIRC.		1			NONE	NOTE A
	Temperature	N/A		—				
	Pressure			—				
	Relative Humidity			—				
	Chemical Spray			—				
	Radiation	$<6\times10^{4}$ R		2				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-4.0, 4.4 & 4.6
2. P.S.E&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.

Notes:

A. REFER TO BASIS #15

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV0114 (UNITS 1 & 2) SV0615, SV0575 (UNIT 2 ONLY) SV1078, SV1080, SV1082 SV1084 (UNIT 1 ONLY) Component: SOLENOID VALVES Manufacturer: ASCO Model: #LB831654 Service: PILOT VALVE FOR CONTAINMENT ISOL. VALVE Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: MECH. PEN. 78 & 100, ELEC. PEN.	Operating Time	HEBA < 10 SECS		4			BASIS #17	INSUFFICIENT DOCUMENTATION
	Temperature	285°F		1 NOTE A				
	Pressure	1 PSIG		1				
	Relative Humidity	100 %		—				
	Chemical Spray	N/A		—				
	Radiation	$< 5 \times 10^7$ R		2	3	ENGINEERING ANALYSIS		
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
3. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION
4. FSAR; TABLE 5.4-1

Notes:

A. WORST CASE CONDITIONS

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: RHR Identification: FA2569, FA2481 Component: FLOW TRANSMITTERS Manufacturer: BARTON Model: #289A Service: Function: RHR PUMP RECIRC. FLOW CONTROL Accuracy: Spec. N/A Demon. Location: AUX. BLDG. - 45	Operating Time	RECIRC.		1			NONE	NOTE A
	Temperature	N/A		—				
	Pressure			—				
	Relative Humidity			—				
	Chemical Spray	—		—				
	Radiation	$<6 \times 10^6$ R		2				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; 1-4.0, 1-4.4, 1-4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A. REFER TO BASIS #16

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV0558, SV0559 Component: SOLENOID VALVES Manufacturer: ASCO Model: X8342B22 Service: PILOT VALVE FOR CONTAINMENT ISOL. VALVE Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: MECHANICAL PENET. 78 & 100	Operating Time	HEBA <10 SECS		3			BASIS #17	INSUFFICIENT DOCUMENTATION
	Temperature	285°F		1 NOTE A				
	Pressure	1 PSIG		1				
	Relative Humidity	100 %		—				
	Chemical Spray	N/A		—				
	Radiation	$< 5 \times 10^7$ R		2	4	ENGINEERING ANALYSIS		
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
3. FSAR; TABLE 5.4-1
4. RADIATION VALUE IS FOR RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION

Notes:

A. WORST CASE CONDITIONS

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV0395 (UNIT 2 SV0507 ONLY) Component: SOLENOID VALVE Manufacturer: ASCO Model: Service: HV 202-302-1F Function: PILOT VALVE FOR CONTAINMENT ISOL. VALVE Accuracy: Spec. N/A Demon. Location: MECHANICAL PENET. 100, 78	Operating Time	HEBA <10 SECS		4			BASIS #17	INSUFFICIENT DOCUMENT-ATION
	Temperature	285°F		1 NOTE A				
	Pressure	1 PSIG		1				
	Relative Humidity	100 %		—				
	Chemical Spray	N/A		—				
	Radiation	$<5 \times 10^7$ R		2	3	ENGINEERING ANALYSIS		
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
3. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION
4. FSAR; TABLE 5.4-1

Notes:

A. WORST CASE CONDITIONS

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV1023 (UNIT-1) Component: SOLENOID VALVE Manufacturer: ASCO Model: HTX8344A75 Service: PILOT VALVE CONTROL FOR PURGE AIR INLET OUTSIDE ISOLATION Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: MECH. PEN. 100'	Operating Time	HEBA < 10 SECS.		1			BASIS #17	INSUFFICIENT DOCUMENTATION
	Temperature	285° F		2				
	Pressure	1PSIG		2				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$<5 \times 10^7$ R		3	5	ENGINEERING ANALYSIS		
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR; TABLE 5.4-1
2. PSE&G CALCULATIONS PER NEBA INFORMATION IN FSAR SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
4. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION.

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV1024	Operating Time	HEBA < 10 SECS		4			BASIS #17	INSUFFICIENT DOCUMENT-ATION
Component: SOLENOID VALVE	Temperature	285°F		1				
Manufacturer: ASCO	Pressure	1 PSIG		1				
Model: HT834477	Relative Humidity	100%		—				
Service: PILOT VALVE FOR CONTAINMENT ISOL. VALVE	Chemical Spray	N/A		—				
Function: VALVE OPERATION	Radiation	$< 5 \times 10^7$ R		2	3	ENGINEERING ANALYSIS		
Accuracy: Spec. N/A Demon. Location: MECHANICAL PENET. 100	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
3. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION
4. FSAR; TABLE 5.4-1

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION **Identification:** SV1025 (UNIT1) **Component:** SOLENOID VALVE **Manufacturer:** ASCO **Model:** HTX834475 **Service:** PILOT VALVE CONTROL FOR PRESSURE-VACUUM RELIEF DAMPER **Function:** VALVE OPERATION **Accuracy:** Spec. N/A Demon. **Location:** MECH. PEN. 100'	Operating Time	HEBA < 10 SECS		1			BASIS 17	INSUFFICIENT DOCUMENTATION
	Temperature	285°F		2				
	Pressure	1PSIG		2				
	Relative Humidity	100%		—				
	Chemical Spray			—				
	Radiation	$< 5 \times 10^7$ R		3	4	ENGINEERING ANALYSIS		
	Aging						—	
Flood Level El: 83'-1" **Above Flood Level:** N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR; TABLE 5.4-1
2. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENT QUALIFICATION REVIEW REQUIREMENTS
4. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION **Identification:** SV0804 (UNIT1)	Operating Time	HEBA <10 SEC.		1			BASIS 17	INSUFFICIENT DOCUMENTATION
Component: SOLENOID VALVE	Temperature	285°F		2				
Manufacturer: ASCO	Pressure	1 PSIG		2				
Model: HTX8344T7	Relative Humidity	100%		—				
Service: PILOT VALVE CONTROL FOR PURGE AIR INLET OUTSIDE ISOLATION								
Function: VALVE OPERATION	Chemical Spray	N/A		—				
Accuracy: **Spec.** N/A **Demon.**	Radiation	<5X10⁷R		3	4	ENGINEERING ANALYSIS		
Location: MECH. PEN. 100'	Aging	—		—				
Flood Level El: 83'-1" **Above Flood Level:** N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR; TABLE 5.4-1
2. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
4. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV0805 Component: SOLENOID VALVES Manufacturer: ASCO Model: HT834475 Service: PILOT VALVE FOR CONTAINMENT ISOL. VALVE. Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: MECHANICAL PENET. 100	Operating Time	HEBA <10 SEC.		4			BASIS #17	INSUFFICIENT DOCUMENTATION
	Temperature	285°F		1				
	Pressure	1 PSIG		1				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$<5\times10^7$R		2	3	ENGINEERING ANALYSIS		
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION
4. FSAR: TABLE 5.4-1

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV0514-0517 Component: SOLENOID VALVES Manufacturer: ASCO Model: LBX83146 Service: PILOT VALVE FOR CONTAINMENT ISOL. VALVE Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: MECHANICAL PENET. 78	Operating Time	HEBA <10 SECS.		4			BASIS #17	INSUFFICIENT DOCUMENTATION
	Temperature	212 °F		|			
	Pressure	1 PSIG		|			
	Relative Humidity	100 %		—				
	Chemical Spray	N/A		—				
	Radiation	<5X10⁷R		2	3	ENGINEERING ANALYSIS		
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATIONS REVIEW REQUIREMENTS
3. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION
4. FSAR: TABLE 5.4-1

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV0510-0513 Component: SOLENOID VALVES Manufacturer: ASCO Model: FT8320A101 Service: PILOT VALVE FOR CONTAINMENT ISOL. VALVE Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: MECHANICAL PENET. 78	Operating Time	HEBA <10 SECS.		4			BASIS #17	INSUFFICIENT DOCUMENTATION
	Temperature	212°F		|				
	Pressure	1 PSIG		|				
	Relative Humidity	100 %		—				
	Chemical Spray	N/A		—				
	Radiation	<5X10⁷R		2	3	ENGINEERING ANALYSIS		
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE & G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
2. PSE & G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
3. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION
4. FSAR: TABLE 5, 4-1

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: VARIOUS (REFER TO MASTER LISTS) Component: SOLENOID VALVES Manufacturer: ASCO Model: FT-B321A2 Service: PILOT VALVE FOR CONTAINMENT ISOL. VALVE Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: MECHANICAL PENET. 100 78	Operating Time	HEBA <10 SECS.		4			BASIS #17	INSUFFICIENT DOCUMENTATION
	Temperature	285°F		| NOTE A				
	Pressure	1 PSIG		|				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	<5x10⁷R		2	3	ENGINEERING ANALYSIS		
	Aging	——		——			——	——
Flood Level El: 87'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	——

References:

1. PSE & G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
2. PSE & G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION.
4. FSAR: TABLE 5.4-1

Notes:

A. WORST CASE CONDITIONS

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: SV0587, 581, 585, 583 (UNIT 2 ONLY) Component: SOLENOID VALVE Manufacturer: ASCO Model: NV202-302-1F Service: CONTROL FOR MAIN STEAM ISOLATION VALVES Function: CONTROL Accuracy: Spec. N/A Demon. Location: INBOARD/OUTBOARD PEN. AREAS	Operating Time	MSLB <5 SECS.		1			BASIS *8C	DOCUMENTATION INSUFFICIENT CONSIDERING ENVIR. QUAL. REQUIREMENTS
	Temperature	320°F.		2 Note A				OF 79-018 AND NUREG 0588
	Pressure	5.8 PSIG		2				
	Relative Humidity	100 %		—				
	Chemical Spray	N/A		—				
	Radiation	$<10^5$ R		3	4	ENGINEERING ANALYSIS		
	Aging	—		—				
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR; TABLE 5, 4-1
2. PSE & G CALCULATIONS PER NEBA INFORMATION IN FSAR SECTION 14.5
3. PSE & G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
4. RADIATION EXPOSURE IS FOR 120 DAY ACCIDENT PLUS 40 YEARS AND WOULD BE MINIMAL FOR MATTER OF SECONDS FOLLOWING INCIDENT.

Notes:

A. SOLENOIDS LOCATED IN INSTRUMENT PANELS WILL NOT EXPERIENCE SUCH A HIGH TEMPERATURE DUE TO THERMAL PROTECTION AFFORDED BY THE PANEL. DEMONSTRATED IN WYLE LABS. REPORT NO. 44439-2 REVISION A AND IS APPLICABLE FOR SHORT TIME FRAMES OF PEAK TEMP.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MAIN STEAM Identification: SV0274, 275, 280, 281, 270, 271, 284, 285 Component: SOLENOID VALVE Manufacturer: ASCO Model: FT8321A4 Service: CONTROL FOR MAIN STEAM ISOLATION VALVES Function: CONTROL Accuracy: Spec. N/A Demon. Location: INBOARD/ OUTBOARD PEN. AREAS	Operating Time	MSLB <5 SECS		1			BASIS # 8B	DOCUMENTATION INSUFFICIENT CONSIDERING ENVIR. QUAL.
	Temperature	320°F		2 NOTE A				REQUIREMENTS OF 79-01B AND NUREG 0588
	Pressure	5.8 PSIG		2				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	<10^5R		3	4	ENGINEERING ANALYSIS		
	Aging	—		—				
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR; TABLE 5.4-1
2. PSE&G CALCULATIONS PER NEBA, INFORMATION IN FSAR SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
4. RADIATION EXPOSURE IS FOR 120 DAY ACCIDENT PLUS 40 YRS. AND WOULD BE MINIMAL FOR MATTER OF SECONDS FOLLOWING INCIDENT.

Notes:

A. SOLENOIDS LOCATED IN INSTRUMENT PANELS WILL NOT EXPERIENCE SOCH A HIGH TEMPERATURE DUE TO THERMAL PROTECTION AFFORDED BY THE PANEL. DEMONSTRATED IN WYLE LABS REPORT NO. 44439-2, REV. A AND IS APPLICABLE FOR SHORT TIME FRAMES OF PEAK TEMP.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: WL 108, 13, 97, 99 NT25, WR80 Component: LIMIT SWITCH Manufacturer: NAMCO Model: D-2400X-ST Service: POSITION INDICATOR FOR VALVES Function: OPERATION INDICATION & VALVE CONTROL (REFER TO MASTER LIST) Accuracy: Spec. N/A Demon. Location: MECHANICAL PENET. 78 & 100	Operating Time	HEBA		1			BASIS #18A	NO DOCUMENTATION AVAILABLE
	Temperature	285°F		2 NOTE A				
	Pressure	1 PSIG		2				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$<5 \times 10^7$ R		3				
	Aging	—		—			↓	↓
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES I-4.0, 4.4, & 4.6
2. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A. WORST CASE CONDITIONS

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: WL 108, 13, 97, 99 NT 25, WE80 Component: LIMIT SWITCH Manufacturer: NAMCO Model: D-2400X-ST-SR Service: POSITION INDICATOR FOR VALVES Function: OPERATOR INDICATION VALVE CONTROL (REFER TO MASTER LISTS) Accuracy: Spec. Demon. N/A Location: MECHANICAL PENET. 78 & 100	Operating Time	HEBA		1			BASIS #18A	NO DOCUMENTATION AVAILABLE
	Temperature	285 °F		2 NOTE A				
	Pressure	1 PSIG		2				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	<5X10⁷R		3				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES I-4.0, 4.4, & 4.6
2. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A. WORST CASE CONDITIONS

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: VARIOUS (REFER TO MASTER LISTS) Component: LIMIT SWITCH Manufacturer: MASONEILAN Model: 496-2 Service: POSITION INDICATOR FOR VALVES Function: OPERATOR INDICATION & VALVE CONTROL (REFER TO MASTER LISTS) Accuracy: Spec. Demon. N/A Location: MECHANICAL PENET. 78 & 100	Operating Time	HEBA		1			BASIS # 18A	NO DOCUMENTATION AVAILABLE
	Temperature	285°F		2 NOTE A				
	Pressure	1 PSIG		2				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$<5 \times 10^7$ R		3				
	Aging	—		—				
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES I-4.0, 4.4, & 4.6
2. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A. WORST CASE CONDITIONS

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: VARIOUS (REFER TO MASTER LIST) Component: LIMIT SWITCH Manufacturer: NAMCO Model: D-2400X Service: POSITION INDICATOR & VALVE CONTROL Function: OPERATOR INDICATION & VALVE CONTROL (REFER TO MASTERLIST) Accuracy: Spec. Demon. N/A Location: MECHANICAL PEN. 78 & 100, ELEC. PEN.	Operating Time	HEBA		1			BASIS #18A	NO DOCUMENT AVAILABLE
	Temperature	285°F		2 NOTE A				
	Pressure	1PSIG		2				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	<5X10⁷R		3				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES. I-4.0, 4.4, 4.6
2. P.S.E.&G. CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
3. P.S.E.&G. RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A. WORST CASE CONDITIONS.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: Identification:	Operating Time							
Component:	Temperature							
Manufacturer:	Pressure							
Model: Service:	Relative Humidity		INTENTIONALLY LEFT BLANK					
Function:	Chemical Spray							
Accuracy: Spec. Demon. Location:	Radiation							
	Aging							
Flood Level El: 83'-1" Above Flood Level:	Submergence							

References:

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT VENTILATION Identification: VARIOUS Component: SQUARE ROOT EXTRACTOR Manufacturer: FISCHER-PORTER Model: 50ES3212 Service: Function: FLOW/PRESSURE CONTROL Accuracy: Spec. N/A Demon. Location: MECHANICAL PEN. 78	Operating Time	HEBA		1			BASIS #20	NO DOCUMENTATION AVAILABLE
	Temperature	212°F		3				
	Pressure	1 PSIG		3				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$<5\times10^7$ R		2				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-4.0, 4.4 & 4.6
2. P.S.E.&G. RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
3. P.S.E.&G. CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT VENTILATION Identification: VARIOUS	Operating Time	HEBA		1			BASIS #20	NO DOCUMENTATION AVAILABLE
Component: FLOW CONTROLLER	Temperature	212°F		3				
Manufacturer: FISHER-PORTER	Pressure	1PSIG		3				
Model: 53EG3000 Service:	Relative Humidity	100%		—				
Function: FLOW CONTROLLER	Chemical Spray	N/A		—				
Accuracy: Spec. Demon. N/A	Radiation	$<5\times10^7$R		2				
Location: MECHANICAL PEN. 78	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-4.0, 4.4 & 4.6
2. P.S.E.&G. RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
3. P.S.E.&G. CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT VENTILATION Identification: VARIOUS (REFER TO MASTER LIST) Component: E/P CONVERTER Manufacturer: FISCHER-PORTER Model: 53EI3000 Service: Function: FLOW/PRESSURE CONTROL Accuracy: Spec. N/A Demon. Location: MECHANICAL PEN. 78	Operating Time	NEBA		1			BASIS #20	NO DOCUMENTATION AVAILABLE
	Temperature	212°F		3				
	Pressure	1 PSIG		3				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$<5\times10^7$ R		2				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-4.0, 4.4 & 4.6
2. PSE&G. RADIATION CALCULATIONS PER ENVIRONMENT QUALIFICATION REVIEW REQUIREMENTS
3. PSE&G. CALCULATIONS PER NEBA INFORMATION IN FSAR SECTION 14.5

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: Identification:	Operating Time							
Component:	Temperature							
Manufacturer:	Pressure		INTENTIONALLY LEFT BLANK					
Model: Service:	Relative Humidity							
Function:	Chemical Spray							
Accuracy: Spec. Demon.	Radiation							
Location:	Aging							
Flood Level El: 83'-1" Above Flood Level:	Submergence							

References:

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: VARIOUS Identification: VARIOUS (REFER TO MASTER LIST) Component: PRESSURE TRANSMITTER Manufacturer: FISCHER-PORTER Model: [ ] A,C Service: Function: Accuracy: Spec. N/A Demon. Location: VARIOUS	Operating Time	HEBA		1 NOTE A	4	TEST	NONE	NOTE B NOTE C
	Temperature	212°F	[ ] A,B,C	3 NOTE A				
	Pressure	1 PSIG	[ ] A,B,C	3				
	Relative Humidity	100%	[ ] A,B,C	—				
	Chemical Spray	N/A	[ ] A,B,C	—				
	Radiation	$< 5 \times 10^7$ R	[ ] A,B,C	2	—	—	—	—
	Aging	—		—			BASIS #1	ANALYSIS MUST BE COMPLETED
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-4.0, 4.4 & 4.6
2. P.S.E.&G. RADIATION CALCULATIONS PER ENVIRONMENT QUALIFICATION REVIEW REQUIREMENTS
3. P.S.E.&G. CALCULATIONS PER NEBA, INFORMATION IN FSAR SECTION 14.5
4. WCAP 7410-L Vol.1, 12/70

Notes:

A WORST CASE CONDITIONS
B (W) DOCUMENTATION IS NOT A SEQUENTIAL TEST (SEPARATE EFFECTS).
C REFER TO BASIS #21

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT PARAMETERS Identification: PA2344, PA2345, PA2346, PA2568 Component: PRESSURE TRANSMITTER Manufacturer: BARTON Model: 332/351 Service: Function: Accuracy: Spec. Demon. N/A Location: MECHANICAL PEN. 78	Operating Time	HEBA		1			BASIS #22	NO DOCUMENTATION AVAILABLE NOTE A
	Temperature	212°F		3				
	Pressure	1 PSIG		3				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$< 5 \times 10^7$ R		2				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-4.0, 4.4 & 4.6
2. P.S.E.&G. RADIATION CALCULATIONS PER ENVIRONMENT QUALIFICATION REVIEW REQUIREMENTS
3. P.S.E.&G. CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5

Notes:

A CONTAINMENT PRESSURE SENSING BELLOWS HAVE UNDERGONE QUALIFICATION TESTS FOR INSIDE CONTAINMENT CONDITIONS

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT SPRAY Identification: LA-0217 Component: LEVEL TRANSMITTER Manufacturer: BARTON Model: 332/352 Service: CONTAINMENT SPRAY ADDITIVE TANK LEVEL INDICATION Function: OPERATOR INDICATION Accuracy: Spec. Demon. Location: AUX BUILDING 84	Operating Time	RECIRC.		1			NONE	NOTE A
	Temperature	N/A						
	Pressure							
	Relative Humidity							
	Chemical Spray							
	Radiation	$<10^3$R		2				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-40, 4.4, 4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.

Notes:

A REFER TO BASIS #23

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT PARAMETERS Identification: PA2344-46, 2568 Component: PRESSURE BELLOWS Manufacturer: BARTON Model: [ ]A,C Service: CONTAINMENT PRESSURE Function: TRIP FUNCTION FOR PROTECTION SYSTEM Accuracy: Spec. N/A Demon. Location: CONTAINMENT	Operating Time	LOCA/MSLB	15 DAYS IN ADVERSE ENVIR ≥ 4 MONTHS POST-ACCIDENT	1	7, 8	TEST	BASIS #22	DEVICE EXHIBITED PRESSURE SPIKE UNDER TEST BUT NOT
	Temperature	271/350°F	[ ] A,B,C FIG. 28 A,B,C	3, 4				SAFETY PROBLEM
	Pressure	43.2/42.8 PSIG	[ ] A,B,C	5				
	Relative Humidity	100%	[ ] A,B,C	—				
	Chemical Spray	.2 WT % NaOH 1.2 WT % BORIC ACID	1.14 WT % BORIC ACID & 0.17 WT % NaOH 24 HRS	6	7, 8, 9			
	Radiation	<5X10⁷ RADS	N/A	2	7, 8			
	Aging	—	—	—	—	—	—	—
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	NONE	N/A	7	—	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-4.0, 4.4, 4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 & Q5.85
4. NRC SER FOR SALEM (SUPP. 4) NUREG 0517, 4/80; PAGE 3-10
5. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q5.82 & Q5.85
6. FSAR; PAGE 6.4-10
7. WCAP 9157, 9/77 (EQ 28.00)
8. PSE&G DOCUMENTATION EVALUATION EQ 28
9. (W) LETTER 11/19/80 - ESA- EQ-198 (EQ 28.05)

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
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QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: Identification:	Operating Time							
Component:	Temperature							
Manufacturer:	Pressure		INTENTIONALLY					
Model: Service:	Relative Humidity		LEFT BLANK					
Function:	Chemical Spray							
Accuracy: Spec. Demon.	Radiation							
Location:	Aging							
Flood Level El: 83'-1" Above Flood Level:	Submergence							

References:

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: VARIOUS Identification: VARIOUS (REFER TO MASTER LIST) Component: LIMIT SWITCH Manufacturer: NAMCO Model: D-2400X Service: POSITION INDICATOR FOR VALVES Function: OPERATOR INDICATION & VALVE CONTROL (REFER TO MASTER LISTS) Accuracy: Spec. N/A Demon. Location: MECHANICAL PENET. 78 & 100	Operating Time	HEBA		1			BASIS #26	NO DOCUMENTATION AVAILABLE
	Temperature	285°F		2 NOTE A				
	Pressure	1 PSIG		2				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$<5X10^7$ R		3				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES 1-4.0, 4.4, & 4.6
2. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.

Notes:

A. WORST CASE CONDITIONS

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: VARIOUS Identification: SV0117, 118, 119 (BOTH UNITS) SV0164 (UNIT 2 ONLY) SV0575 (UNIT 1 ONLY) Component: SOLENOID VALVES	Operating Time	HEBA		3			BASIS #25	NO DOCUMENTATION AVAILABLE
	Temperature	285°F		1 NOTE A				
Manufacturer: ASCO	Pressure	1 PSIG		1				
Model: FT831654 Service: PILOT VALVE	Relative Humidity	100%		—				
Function: VALVE OPERATION	Chemical Spray	N/A		—				
Accuracy: Spec. N/A Demon.	Radiation	$<5 \times 10^7$ R		2				
Location: MECHANICAL PENET. 78' & 100'	Aging	—		—				
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. P.S. E&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5.
2. P.S. E&G RADIATION CALCULATIONS PER ENVIRON--MENTAL QUALIFICATION REVIEW REQUIREMENTS
3. SALEM EMERGENCY OPERATING PROCEDURE; I4.0

Notes:

A. WORST CASE CONDITIONS.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: VARIOUS Identification: VARIOUS (REFER TO MASTER LIST.) Component: DIFFERENTIAL PRESSURE TRANSMITTER Manufacturer: FISHER-PORTER Model: [ ]A,C Service: Function: Accuracy: Spec. Demon. Location: VARIOUS	Operating Time	HEBA		1,2	5 6	TEST	NONE	NOTE B
	Temperature	285°F	[ ] A,B,C 320°F	3 NOTE "A"	5 6			
	Pressure	1 PSIG	[ ] A,B,C 75.3 PSIG	3 NOTE "A"	5 6			
	Relative Humidity	100%	[ ] A,B,C 100%	—	5 6			
	Chemical Spray	N/A	[ ] A,B,C N/A	—	5 6			
	Radiation	$<5\times10^7$	[ ] A,B,C $>10^6$ R	4 NOTE "A"	5 6			
	Aging	—	REPLACEMENT BY JUNE 30, 1982	—	—	—	—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-4.0, 4.4 & 4.6
2. NUREG 0578 REQUIREMENTS; ITEM 2.1.76
3. P.S.E&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
4. P.S.E&G RADIATION CALCULATIONS PER ENVIROMENTAL QUALIFICATION REVIEW REQUIREMENTS
5. WCAP 7410-L VOL.1, 12/70
6. SUMMARY REPORT OF NUS. CORP. "EPRI EQUIPMENT QUALIFICATION PROGRAM-RESPONSES TO NRC IE BULLETIN 79-01."

Notes:

A. WORST CASE CONDITION
B. REFER TO BASIS #27

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: VARIOUS Identification: VARIOUS (REFER TO MASTER LIST.) Component: DIFFERENTIAL PRESSURE TRANSMITTER Manufacturer: FISHER-PORTER Model: [ ]A,C Service: Function: Accuracy: Spec. Demon. Location:	Operating Time	RECIRC.		1, 2 NOTE A	5 6	TEST	NONE	NOTE B
	Temperature	N/A	[ ] A,B,C 320°F	3	5 6			
	Pressure		[ ] A,B,C 75.3 PSIG	3	5 6			
	Relative Humidity		[ ] A,B,C 100%		5 6			
	Chemical Spray		[ ] A,B,C N/A		5 6			
	Radiation	$<5\times10^7$R	[ ] A,B,C $>10^6$R	4 NOTE A	5 6			
	Aging	—	REPLACEMENT BY JUNE 30, 1982	—	—	—	—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; E-4.0, 4.4 & 4.6
2. NUREG 0578 REQUIREMENTS; ITEM 2.1.76
3. P.S. E/G CALCULATIONS PER NEDO, INFORMATION IN FSAR SECTION 14.5
4. P.S. E/G RADIATION CALCULATIONS PER ENVIROMENTAL QUALIFICATION REVIEW REQUIREMENTS.
5. WCAP 7410-L VOL. 1, 12/70
6. SUMMARY REPORT OF NUS CORP. "EPRI" EQUIPMENT QUALIFICATION PROGRAM - RESPONSES TO NRC IE BULLETIN 79-01"

Notes:

A. WORST CASE CONDITION
B. REFER TO BASIS #27

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: VARIOUS Identification: VARIOUS (REFER TO MASTER LIST) Component: SOLENOID VALVES Manufacturer: ASCO Model: NP SERIES Service: PILOT VALVE FOR SAFETY-RELATED CONTROL VALVES Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: VARIOUS (REFER TO MASTERLIST)	Operating Time	LOCA/MSLB AS NECESSARY	30 DAYS IN ADVERSE ENVIRONMENT	8	6,9	SEQUENTIAL TEST Note B	NONE	NONE
	Temperature	271/350°F	346°F FIG.10 350°F FIG.11	1,2 Note A	6,7,9			
	Pressure	43.2/42.8 PSIG	110 PSIG FIG 10 54 PSIG FIG 11	3 Note A				
	Relative Humidity	100%	100%	—				
	Chemical Spray	NaOH & Boric Acid pH>8.5 >22.5 HRS.	NaOH & Boric Acid pH 9.5-10.5 >24 Hrs.	4	6,9			
	Radiation	5×10^7 R	1.5×10^8 R (Total-2×10^8 R)	5 Note A				
	Aging	—	40 YEARS FOR VALVE ASSEMBLY WITH COIL AND ELASTOMER REPLACEMENT EVERY 4,4 YEARS	—				COMMITMENT BY SALEM IN RESPONSE TO BULLETIN 79-01A
Flood Level El: 83'-1" Above Flood Level: Note C	Submergence	N/A	N/A	N/A	N/A	N/A	NONE Note C	QUALIFICATION APPLICABLE TO SOLENOIDS ABOVE FLOOD LEVEL ONLY

References:

1. FSAR; FIGURE 7.5-5 AND RESPONSE TO QS:82 & QS:85
2. NRC SER FOR SALEM (SUPP 4), NUREG 0517 4/80; PAGE 3-10
3. FSAR; FIGURE 14.3-25, PAGE 14.3-56 & RESPONSE TO QS:82 & QS:85
4. FSAR; 6.4-10
5. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
6. AUTOMATIC SWITCH CO. TEST REPORT AQS 21678/TR, 3/79
7. WYLE REPORT NO. 44439-1, 3/23/79
8. SALEM EMERGENCY OPERATING PROCEDURES; I4.0, I4.4, I4.6
9. PSE&G DOCUMENTATION REVIEW - EQ 12

Notes:

A. TEST REQUIREMENTS WERE TO WORST CASE ENVIRONMENTAL CONDITIONS AT SALEM WHICH IS LOCA/MSLB IN CONTAINMENT.
B. THERMAL AGING, RADIATION AGING, WEAR AGING, SEISMIC, ACCIDENT RADIATION, THEN SIMULATED ACCIDENT ENVIRONMENT.
C. SOLENOID VALVES SV0394, SV0397, SV0399, SV0401, SV0427, SV0491, SV0492, SV0493, SV0518, SV0519, SV0520, SV0521 ARE SUBJECT TO SUBMERGENCE, REFER TO BASIS 28.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: VARIOUS Identification: VARIOUS (REFER TO MASTER LIST.) Component: LIMIT SWITCH Manufacturer: NAMCO Model: EA-180 Service: VALVE POSITION INDICATOR Function: OPERATOR INDICATION AND VALVE CONTROL Accuracy: Spec. N/A Demon. Location:	Operating Time	LOCA/MSLB 120 DAYS	30 DAY TEST EQUIVALENT >120 DAYS	1	7,8,9	SEQUENTIAL TEST	NONE	—
	Temperature	LOCA/MSLB 271°/350°F	340°F FIGURE 12	2,3	7,8			—
	Pressure	LOCA/MSLB 43.2/42.8 PSIG	70 PSI FIGURE 12	4				—
	Relative Humidity	100%	100%	—				—
	Chemical Spray	BORIC ACID + NAOH pH>8.5 >22.5 HRS.	BORIC ACID + NAOH pH 10 4 DAYS	5				—
	Radiation	5×10^7 R	2×10^8 R	6				—
	Aging	—	1.5 YRS. INITIAL GASKET REPLACEMENT THEREAFTER 40 YRS	—	7,10,11	TEST AND ANALYSIS		REFER TO NOTE B FOR MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: N/A NOTE A	Submergence	N/A	NONE	N/A	7	N/A	NOTE A	NOTE A

References:

1. POST ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 & Q5.85
3. NRC SER FOR SALEM (SUPR 4) NUREG 0517 4/80; PAGE 3-10
4. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q5.82 & Q5.85
5. FSAR; PAGE 6.4-10
6. P.S. E&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
7. ACME CLEVELAND DEVELOPMENT CO. REPORT 9/80 "QUALIFICATION OF EA-180 SWITCH." (EQ13.00)
8. PSE&G DOCUMENTATION EVALUATION - EQ 13
9. PSE&G CALCULATION EQ13.01
10. ANCLE REPORT TR48-17 (EQ 13.06)
11. PSE&G AGING REVIEW EQ13.07

Notes:

A. THE LIMIT SWITCHES FOR WL98, CU3-5, SV123 ARE SUBJECT TO SUBMERGENCE. SEE BASIS #29.

B. AFTER INITIAL REPLACEMENT OF TOP AND BOTTOM GASKETS AFTER 1.5 YEARS, PREVENTITIVE MAINTENANCE WILL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION EA-189-90051. ANALYSIS INDICATES SPECIAL MAINTENANCE NOT REQUIRED AND PREVENTITIVE IS UNDER REVIEW TO EXTEND TIME FRAMES

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: GENERIC Identification: VARIOUS (REFER TO MASTER LIST) Component: INSTRUMENT PANEL ENCLOSURE Manufacturer: P.S. E&G DESIGN Model: 1,2,3,4 BAY VERTICAL & NEMA 12 ENCLOSURES Service: ENCLOSURE/CONNECTION FOR INSTRUMENTATION Function: PROTECTION FOR INSTRUMENTS Accuracy: Spec. N/A Demon. Location: VARIOUS (REFER TO MASTER LIST)	Operating Time	LOCA/MSLB PROVIDE SUITABLE PROTECTION FOR EQUIPT. DURING TRANSIENT	24 HOURS IN ADVERSE ENVIRONMENT	—	4,5	SIMULATED ENVIRONMENT TEST AND ANALYSIS	NONE	ONLY NECESSARY TO DEMONSTRATE CAPABILITY TO SURVIVE INITIAL SEVERE TRANSIENT
	Temperature	271°/350°F	>350°F FIG. 13	1, 2 NOTE A				—
	Pressure	42.2/42.8 PSIG	54 PSIG FIG. 13	3 NOTE A				NOTE B
	Relative Humidity	100%	100%	—	↓	↓		—
	Chemical Spray	N/A	N/A	N/A	N/A	N/A		—
	Radiation							—
	Aging						↓	—
Flood Level El: 83'-1" Above Flood Level: NOTE "C"	Submergence	↓	↓	↓	↓	↓	NONE NOTE "C"	QUALIFICATION APPLICABLE FOR PANELS ABOVE FLOOD LEVEL ONLY - REFER

References:

1. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 & Q5.85
2. NRC SER FOR SALEM (SUPP 4), NUREG 0517 4/80; PAGE 3-10
3. FSAR; FIGURE 14.3-25, PAGE M.3-56 & RESPONSE TO Q5.82 & Q5.85
4. WYLE REPORT No 44439-2, REV. A, 8/15/79
5. PSE&G DOCUMENTATION EVALUATION - EQ 20.00

Notes:

A. TEST REQUIREMENTS WERE TO WORST CASE ENVIRONMENTAL CONDITIONS AT SALEM WHICH IS LOCA/MSLB IN CONTAINMENT.
B. PANELS INSIDE CONTAINMENT MUST HAVE AN OPEN GRILLE PORT TO ALLEVIATE POTENTIAL STRUCTURAL DAMAGE DUE TO SEVERE PRESSURE TRANSIENT.
C. PANELS 238, 241, 245 ARE SUBJECT TO SUBMERGENCE. REFER TO BASIS 28.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MOTOR OPERATED VALVES Identification: REFERENCE SPECIFIC SYSTEM Component: VALVE OPERATOR Manufacturer: LIMITORQUE/RELIANCE (MOTOR) Model: SMB Service: REFERENCE SPECIFIC SYSTEM Function: MOTIVE POWER FOR VALVE OPENINGS/CLOSINGS Accuracy: N/A Spec. Demon. Location: REFERENCE SPECIFIC SYSTEM	Operating Time	LOCA/MSLB	≈332 DAYS	10	6,7	SIMULTANEOUS TEST	NONE	89 NRS @ 251°F POST LOCA PRO-FILE EQUIVALENT TO ≥168 DAYS AT REQUIRED LOCA TEMP PROFILE
	Temperature	271°/350°F	340°F NOTE B FIG. 15,16	1,2 NOTE A	6,8	SIMULTANEOUS TEST ANALYSIS		—
	Pressure	432/42.8 PSIG.		3 NOTE A	6	SIMULTANEOUS TEST		—
	Relative Humidity	100%	100%		6,9			—
	Chemical Spray	.2 Wt% NaOH 1.2 Wt% BORIC ACID	BORIC ACID/NaOH	4	9			—
	Radiation	5×10^7 RADS	2×10^8 RADS	5	6	SEQUENTIAL TEST		—
	Aging	—		—			BASIS #1	ANALYSIS MUST BE COMPLETED
Flood Level El: 83'-1" Above Flood Level: YES SEE NOTE C	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	NOTE C

References:

1. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 & Q5.85
2. NRC SER FOR SALEM (SUPP 4), NUREG 0517, 4/80; PAGE 3-10
3. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q5.82. & Q5.85
4. FSAR; PAGE 6.4-10
5. P.S. E & G RADIATION CALCULATIONS PER ENVIRONMENT QUALIFICATION REVIEW REQUIREMENTS.
6. FRANKLIN INSTITUTE REPORT F-C 3441.
7. TEN DEGREE EQUIVALENT LIFE CONAX REPORT ER-1161
8. THERMAL ANALYSIS STONE & WEBSTER 1/25/79.
9. WESTINGHOUSE WCAP 7410-L (F-C2232)
10. SALEM EMERGENCY OPERATING PROCEDURES; I4.0, I4.4, I4.6

Notes:

A. TEST REQUIREMENTS WERE TO WORST CASE ENVIRONMENT CONDITIONS AT SALEM WHICH IS LOCA/MSLB IN CONTAINMENT.

B. THERMAL ANALYSIS (REF #9) SHOWS MAX. OPERATOR TEMP. TO BE 291°F.

C. CC187 AND CC190 ARE SUBJECT TO SUBMERGENCE SEE BASIS #28.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

Revision 1

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MOTOR OPERATED VALVES Identification: REFERENCE SPECIFIC SYSTEM Component: VALVE OPERATOR Manufacturer: LIMITORQUE/RELIANCE (MOTOR) Model: SMB CLASS H INSULATION Service: REFERENCE SPECIFIC SYSTEM Function: MOTIVE POWER FOR VALVE OPENINGS/CLOSINGS Accuracy: N/A Spec. Demon. Location: REFERENCE SPECIFIC SYSTEM	Operating Time	LOCA/MSLB	7/30 DAY TEST EQUIVALENT 233 DAYS	10	6, 7, 9, 11	TEST	NONE	—
	Temperature	271°/350°F	340°F NOTE B FIG. 15, 16	1, 2 NOTE A	6, 7, 8, 9	TEST ANALYSIS		—
	Pressure	432/42.8 PSIG.	90/105 PSIG	3 NOTE A	6, 7, 9	TEST		—
	Relative Humidity	100%	100%	—	7, 9			—
	Chemical Spray	.2 Wt% NaOH 1.2 Wt% BORIC ACID	BORIC ACID/NaOH	4	7, 9			—
	Radiation	5×10^7 RADS	2×10^8 RADS	5	6, 7	TEST		—
	Aging	—		—		ANALYSIS	BASIS #1	ANALYSIS MUST BE COMPLETED
Flood Level El: 83'-1" Above Flood Level: YES SEE NOTE C	Submergence	N/A	NONE	—	6, 9	—	NONE	NOTE C

References:

1. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 & Q5.85
2. NRC SER FOR SALEM (SUPP 4), NUREG 0517, 4/80; PAGE 3-10
3. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q5.82. & Q5.85
4. FSAR; PAGE 6.4-10
5. P.S. E&G RADIATION CALCULATIONS PER ENVIRONMENT QUALIFICATION REVIEW REQUIREMENTS.
6. FRANKLIN INSTITUTE REPORT F-C3441, 9/72
7. PSE&G DOCUMENTATION EQ 17.00
8. THERMAL ANALYSIS STONE & WEBSTER 1/25/79.
9. FRANKLIN INSTITUTE REPORT F-C2232-01, 11/68
10. SALEM EMERGENCY OPERATING PROCEDURES; I4.0, I4.4, I4.6
11. PSE&G CALCULATION EQ 17.08

Notes:

A. TEST REQUIREMENTS WERE TO WORST CASE ENVIRONMENT CONDITIONS AT SALEM WHICH IS LOCA/MSLB IN CONTAINMENT.
B. THERMAL ANALYSIS (REF #8) SHOWS MAX. OPERATOR TEMP. TO BE 291°F.
C. CC187 AND CC190 ARE SUBJECT TO SUBMERGENCE SEE BASIS #2B.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MOTOR OPERATED VALVES Identification: REFERENCE SPECIFIC SYSTEM Component: VALVE OPERATOR Manufacturer: LIMITORQUE / RELIANCE (MOTOR) Model: SMB CLASS B INSULATION Service: REFERENCE SPECIFIC SYSTEM Function: MOTIVE POWER FOR VALVE OPENINGS/CLOSINGS Accuracy: Spec. N/A Demon. Location: REFERENCE SPECIFIC SYSTEM	Operating Time	LOCA / MSLB	NOTE C 4 HRS.	10	6,7,9, 12	TEST	NONE	—
	Temperature	271°/350°F	292° F NOTE B	1, 2 NOTE A	7,8,9	TEST + ANALYSIS		—
	Pressure	43.2/42.8 PSIG	60 PSIG	3 NOTE A	7,9	TEST		—
	Relative Humidity	100 %	100 %	—	7,9			—
	Chemical Spray	NaOH + BORIC ACID	NaOH + BORIC ACID	4	6,7,9			—
	Radiation	$<5 \times 10^7$ R	2×10^8 R	5	7,11	—	—	—
	Aging	—		—		ANALYSIS	BASIS #1	ANALYSIS MUST BE COMPLETED
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	—	N/A	—	NONE	—

References:
1. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 + Q5.85
2. NRC SER FOR SALEM (SUPP. 4), NUREG 0517, 4/80; PAGE 3-10
3. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q5.82 + Q5.85
4. FSAR; PAGE 6.4-10
5. PSE+G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
6. FRANKLIN INSTITUTE REPORT B2232-01, 11/68
7. PSE+G DOCUMENTATION EVALUATION EQ29.00
8. THERMAL ANALYSIS STONE + WEBSTER 1/25/79
9. FRANKLIN INSTITUTE REPORT F-C2485-01, 4/69
10. SALEM EMERGENCY OPERATING PROCEDURES; I4.0, I4.4, I4.6
11. WCAP 7410-L

Notes: 12. (W)/NRC LETTER 11/15/75, EICHELDINGER TO VASSALO

A. TEST REQUIREMENTS WERE TO WORST CASE ENVIRONMENT CONDITIONS AT SALEM WHICH IS LOCA/MSLB IN CONT.
B. THERMAL ANALYSIS (REF #8) SHOWS MAX. OPERATOR TEMP. TO BE 291°F.
C. OUTSIDE CONTAINMENT VALVES ARE QUALIFIED FOR 8 HOURS OPERATION

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: Electrical Cabling Identification: N/A Component: Terminal Block Manufacturer: Buchanan Model: 2B112N Service: Connection Point Within PSE&G Terminal Box/Panels Function: Provide Electrical Termination And/Or Junction Point Accuracy: Spec. N/A Demon. Location: Containment (Note A)	Operating Time	LOCA/MSLB 120 Days	>240 Hr. Test Equivalent 292 Days	1	7,8	Sequential Test Radiation Then Accident	None	—
	Temperature	271/350°F	290/350°F Figs. 17,18A,18B	2,3		Environment Simulation		—
	Pressure	43.2/42.8 PSIG.	≥ 50 PSIG. Figs. 17,18A,18B	4				—
	Relative Humidity	100%	100%					—
	Chemical Spray	Boric Acid & NaOH pH > 8.5 > 22.5 Hrs	Boric Acid & NaOH pH 8.5-10 24 Hrs	5				—
	Radiation	5×10^7 R	2×10^8 R	6				—
	Aging	—	Expected Age Insensitivity > 40 Years	—	9,10	Analysis		No Special Maintenance
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	None	—	7	—	None	Note B

References:

1. Post Accident Time For Required Instrumentation And Controls
2. FSAR; Fig. 7.5-5 & Q5.85
3. NRC SER For Salem (Supp. 4) NUREG 0517 4/80; Pg. 3-10
4. FSAR; Figs. 7.5-4, 14.3-25, Pg. 14.3-56 & Q5.85
5. FSAR; Pg 6.4-10 & Table 6.2-11
6. PSE&G Calculations For Radiation - Environ. Qual.
7. Conax Test Report No. IPS-400 (4/79) (EQ 19.00)
8. PSE&G Documentation Evaluation - EQ 19
9. Wyle Labs Report No. 17448-1 (EQ 19.01)
10. PSE&G Evaluation EQ 19.02

Notes:

A. Blocks / Junction Boxes Qualified To Worst Case Containment Conditions

B. Some Components May Become Flooded After Performing Safety Function Following In-Containment Accident. Blocks Associated With Such Components Are Not Required To Be Operable In A Submerged State

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: Electrical Cabling Identification: N/A Component: Cable Splices/ Thermofit Tubing Manufacturer: Raychem Model: WCSF-N Service: Termination/Junction Of Electric Cables Function: Electrical Insulation And Sealing Accuracy: Spec. N/A Demon. Location: Containment (Note A)	Operating Time	LOCA/MSLB 120 Days	30 Day Test Equivalent >602 Days	1	6, 7, 8	Sequential Test- Pre Aging (Thermal & Radiation), Accident Radiation, Then Accident	None	—
	Temperature	271/350°F	357°F Fig. 19	2, 9	6, 7			—
	Pressure	43.2/42.8 PSIG	> 70 PSIG Fig. 19	3		Environment Simulation		—
	Relative Humidity	100%	100%	—				—
	Chemical Spray	Boric Acid & NaOH pH 7 8.5 >22.5 Hrs.	Boric Acid & NaOH pH 9.5-11.0 >9 Days	4				—
	Radiation	5×10^7 R	1.5×10^8 R	5				—
	Aging	—	> 40 years	—	6, 10, 11, 12	—	—	No Special Maintenance
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	None	—	6	—	None	Note B

References:

1. Post Accident Time For Required Instrumentation And Controls
2. FSAR; Fig. 7.5-5 & Q5.82, Q5.85
3. FSAR; Figs. 7.5-4, 14.3-25 & Q5.85
4. FSAR; Pg. 6.4-10 & Table 6.2-11
5. PSE&G Calculations For Radiation - Environ. Qual.
6. FIRL Report No. F-C4033-3 (1/75)
7. PSE&G Documentation (EQ01.00) Evaluation - EQ01
8. PSE&G Calculation - EQ 01.03
9. NRC SER For Salem (Supp. 4), NUREG 0517 4/80; Pg. 3-10
10. Wyle Report 17448-2 (EQ 01.06)
11. Raychem Report EDR-2001 (EQ01.04)
12. PSE&G Aging Review EQ 01.07

Notes:

A. Splice Qualified To Worst Case Containment Conditions
B. Some Components May Become Flooded After Performing Safety Function Following In-Containment Accident. Splices Associated With Such Components Are Not Required To Be Operable In A Submerged State.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: Electrical Cabling Identification: Reference Specific System Component: Electrical Penetrations Manufacturer: Conax Corp. Model: Canister Type LVP, MVP Service: Provide Electrical Feeds Thru Containment Boundary Function: Accuracy: Spec. Demon. N/A Location: Containment, Elec. Pen	Operating Time	LOCA/MSLB 120 DAYS	MVP-707 Hr Test Equiv. 71000 Days LVP-216 Hr. Test Equiv. >400 Days	9	7, 10, 11, 12, 13	Sequential Test	None	—
	Temperature	271°/350°F	MVP-342°F LVP-340°F Note B Fig. 20	1, 2 Note A	7, 10, 12, 14			—
	Pressure	43.2/42.8 PSIG	MVP-98 PSIG LVP-110 PSIG	3 Note A	7, 10, 12, 14			—
	Relative Humidity	100%	100%	—	6, 7			—
	Chemical Spray	NaOH & Boric Acid pH > 8.5 > 22.5 Hrs.	NaOH & Boric Acid pH 8.5-9.5	4	6, 7, 10, 12			—
	Radiation	5×10^7 R	MVP-1×10^8 R LVP-2×10^8 R	5	6, 7			—
	Aging	—	> 40 Yrs.	—	7, 8, 15	Test/Analysis		—
Flood Level El: 83'-1" Above Flood Level: Yes	Submergence	N/A	N/A	N/A	N/A	N/A		—

References:

1. FSAR; Figure 7.5-5 and Response to Q5.82 and Q5.85
2. NRC SER for Salem (Supp. 4), NUREG 0517, 4/80; Page 3-10
3. FSAR; Figure M.3-25, Page M.3-56 and Response to Q5.82 and Q5.85
4. FSAR; Page 6.4-10
5. PSE+G Calculations (Radiation) per Environmental Qualification Review Requirements
6. Conax Report IPS-422 (EQ02.00)
7. PSE+G Documentation Evaluation. EQ-02
8. Conax Report IPS-325 (EQ02.02)
9. Post Accident Time Required for Instrumentation and Controls
10. Conax Report IPS-414 (EQ02.03)
11. PSE+G Calculation EQ 02.06
12. Conax Report IPS-395 (EQ02.04)
13. PSE+G Calculation. EQ 02.07
14. PSE+G Figure EQ 02.08
15. PSE&G Agms Review EQ02.09

Notes:

A. Test requirements were to worst case environmental conditions at Salem which is LOCA/MSLB in containment

B. Thermal analysis by Vepco has shown qualification for Tenr 350°. This info. was submitted as Appendix 3C, Amend. 60 for North Anna FSAR. Conax has confirmed via letter of 1/9/79 that Salem penetrations are the same as North Anna's and therefore similarly qualified for >350°F.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ELECTRICAL CABLING Identification: REFERENCE SPECIFIC SYSTEM COMPONENT CABLE MARK NUMBER Component: ELECTRICAL CABLES Manufacturer: AMERICAN INSULATED WIRE Model: Service: Function: SPECIFIC SYSTEM COMPONENT REFERENCED ABOVE # Accuracy: Spec. N/A Demon. Location: CONTAINMENT (NOTE A)	Operating Time	LOCA/MSLB 120 DAYS	93/100 DAYS EQUIVALENT 241 DAYS	1	7,8,9	SEQUENTIAL TEST	NONE	—
	Temperature	271/350°F	340°F FIG. 21A+B	2,3	7,9,10	(PREAGED, RADIATION, ACCIDENT)		TIME-TEMP. ANALYSIS PERFORMED
	Pressure	43.2/42.8 PSIG	40/60 PSIG FIG. 21A+B	4	7,8,9			—
	Relative Humidity	100%	100%	—	7,9			—
	Chemical Spray	BORIC ACID & NaOH pH > 8.5 >22.5 HRS	PH 8-10.5 BORIC ACID & NaOH 100 DAYS	5	7,8			—
	Radiation	5×10^7 R	2×10^8 R	6	7,8	—		—
	Aging	—	11 YEARS ADDITIONAL ANALYSIS PENDING	—	8,11,12			NO SPECIAL MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	—	—	—	NONE	NOTE B

References:
1. POST ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. FSAR; FIG. 7.5-5 & QS.82, QS.85
3. NRC SER FOR SALEM (SUPP 4), NUREG 0517 4/80; PG. 3-10
4. FSAR; FIGS. 7.5-4, 14.3-25, PG. 14.3-56 & QS.82, QS.85
5. FSAR; PG. 6.4-10 & TABLE 6.2-11
6. PSE&G CALCULATIONS FOR RADIATION - ENVIRON. QUAL.
7. PSE&G DOCUMENTATION EVALUATION - EQ01
8. F.I.R.L. FINAL REPORT FC5115 (EQ01.00)
9. F.I.R.L. FINAL REPORT FC4197-2 (EQ01.02)
10. STONE & WEBSTER THERMAL ANALYSIS 1/25/79 (EQ01.01)
11. WYLE REPORT 47448-7
12. PSE&G AGING ANALYSIS EQ 01.05

Notes:
A. CABLES QUALIFIED TO WORSE CASE CONTAINMENT CONDITIONS
B. SOME COMPONENTS MAY BECOME FLOODED AFTER PERFORMING SAFETY FUNCTION FOLLOWING IN-CONTAINMENT ACCIDENT. CABLES ASSOCIATED WITH SUCH COMPONENTS ARE NOT REQUIRED TO BE OPERABLE IN A SUBMERGED STATE.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ELECTRICAL CABLING Identification: REFERENCE SPECIFIC SYSTEM COMPONENT CABLE MARK NUMBER Component: ELECTRICAL CABLES Manufacturer: SAMUEL MOORE Model: Service: Function: SPECIFIC SYSTEM COMPONENT REFERENCED ABOVE # Accuracy: Spec. N/A Demon. Location: CONTAINMENT (NOTE A)	Operating Time	LOCA/MSLB 120 DAYS	100 DAYS EQUIVALENT 442 DAYS	1	7,8	SEQUENTIAL TEST	NONE	—
	Temperature	271/350°F	340° F FIG. 22	2,3	7, 8, 9	(RADIATION, PREAGE, RADIATION, ACCIDENT)		TIME - TEMP. ANALYSIS PERFORMED
	Pressure	43.2/42.8 PSIG	105 PSIG FIG. 22	4	7, 8			—
	Relative Humidity	100%	100%	—				—
	Chemical Spray	BORIC ACID & NaOH pH > 8.5 > 22.5 HRS	BORIC ACID & NaOH PH 9-11 30 DAYS	5				—
	Radiation	5×10^7 R	2×10^8 R	6	—			—
	Aging	—	40 YEARS	—	8, 10, 11	—	—	NO SPECIAL MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	—	—	—	NONE	NOTE B

References:
1. POST ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. FSAR; FIG. 7.5-5 & QS.82, QS.85
3. NRC SER FOR SALEM (SUPP 4), NUREG 0517 4/80; PG. 3-10
4. FSAR; FIGS. 7.5-4, 14.3-25, PG. 14.3-56 & QS.82, QS.85
5. FSAR; PG. 6.4-10 & TABLE 6.2-11
6. PSE&G CALCULATIONS FOR RADIATION - ENVIRON. QUAL.
7. PSE&G DOCUMENTATION EVALUATION - EQ 21
8. IDAHO EDI TEST REPORT DATED 6/78 (EQ 21.00)
9. STONE & WEBSTER THERMAL ANALYSIS 1/25/79 (EQ 21.01)
10. PSE&G AGING REVIEW EQ 21.02
11. WYLE REPORT 17448-9

Notes:
A. CABLES QUALIFIED TO WORSE CASE CONTAINMENT CONDITIONS
B. SOME COMPONENTS MAY BECOME FLOODED AFTER PERFORMING SAFETY FUNCTION FOLLOWING IN-CONTAINMENT ACCIDENT. CABLES ASSOCIATED WITH SUCH COMPONENTS ARE NOT REQUIRED TO BE OPERABLE IN A SUBMERGED STATE.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ELECTRICAL CABLING * Identification: REFERENCE SPECIFIC SYSTEM COMPONENT CABLE MARK NUMBER Component: ELECTRICAL CABLES Manufacturer: BOSTON INSULATED WIRE Model: Service: Function: SPECIFIC SYSTEM COMPONENT REFERENCED ABOVE * Accuracy: Spec. N/A Demon. Location: CONTAINMENT (NOTE A)	Operating Time	LOCA/MSLB 120 DAYS	100 DAYS EQUIVALENT 533 DAYS	1	7, 8	SEQUENTIAL TEST	NONE	—
	Temperature	271/350°F	340° F FIG. 23	2, 3	7, 8, 11	(PREAGED, RADIATION ACCIDENT)		TIME - TEMP. ANALYSIS PERFORMED
	Pressure	43.2/42.8 PSIG	105 PSIG	4	7, 8			—
	Relative Humidity	100%	100%	—				—
	Chemical Spray	BORIC ACID & NaOH pH > 8.5 > 22.5 HRS	H_3BO_3 PH 10.5 24 HRS.	5				—
	Radiation	5×10^7 R	2×10^8 R	6	—			—
	Aging	—	20 YEARS ADDITIONAL ANALYSIS PENDING	—	8, 9, 10	—	—	NO SPECIAL MAINTENANCE !
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	—	—	—	NONE	NOTE B

References:
1. POST ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. FSAR; FIG. 7.5-5 & QS.82, QS.85
3. NRC SER FOR SALEM (SUPP. 4), NUREG 0517 4/80; PG. 3-10
4. FSAR; FIGS. 7.5-4, 14.3-25, PG. 14.3-56 & QS.82, QS.85
5. FSAR; PG. 6.4-10 & TABLE 6.2-11
6. PSE&G CALCULATIONS FOR RADIATION - ENVIRON. QUAL.
7. PSE&G DOCUMENTATION EVALUATION - EQ05.
8. BOSTON INSULATED WIRE REPORT # 8910 (EQ05.00)
9. PSE&G AGING REVIEW EQ05.04
10. WYLE REPORT 17448-10
11. STONE & WEBSTER THERMAL ANALYSIS 1/25/71 (EQ 05.02)

Notes:
A. CABLES QUALIFIED TO WORSE CASE CONTAINMENT CONDITIONS
B. SOME COMPONENTS MAY BECOME FLOODED AFTER PERFORMING SAFETY FUNCTION FOLLOWING IN-CONTAINMENT ACCIDENT. CABLES ASSOCIATED WITH SUCH COMPONENTS ARE NOT REQUIRED TO BE OPERABLE IN A SUBMERGED STATE.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FOR*

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ELECTRICAL CABLING * Identification: REFERENCE SPECIFIC SYSTEM COMPONENT CABLE MARK NUMBER Component: ELECTRICAL CABLES Manufacturer: BOSTON INSULATED WIRE Model: COAXIAL-TEFZEL ETFE INSUL. Service: Function: SPECIFIC SYSTEM COMPONENT REFERENCED ABOVE # Accuracy: Spec. N/A Demon. Location: CONTAINMENT (NOTE A)	Operating Time	LOCA/MSLB 120 DAYS	159 DAYS	1	7,8	SEQUENTIAL TEST	NONE	—
	Temperature	271/350°F	340° F FIG. 23A	2,3	7,8,9	(PREAGED RADIATION ACCIDENT)		TIME-TEMP ANALYSIS PERFORMED
	Pressure	43.2/42.8 PSIA	105 PSIG FIG. 23A	4	7,8			—
	Relative Humidity	100%	100%	—				—
	Chemical Spray	BORIC ACID & NaOH pH > 8.5 >22.5 HRS	NaOH PH 10.5 24 HRS.	5				—
	Radiation	5×10^7 R	2×10^8 R	6				—
	Aging	—	40 YEARS	—	8,10	—	—	NO SPECIAL MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	—	—	—	NONE	NOTE B

References:

1. POST ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. FSAR; FIG. 7.5-5 & QS.82, QS.85
3. NRC SER FOR SALEM (SUPP 4), NUREG 0517 4/80; PG. 3-10
4. FSAR; FIGS. 7.5-4, 14.3-25, PG. 14.3-56 & QS.82, QS.85
5. FSAR; PG. 6.4-10 & TABLE 6.2-11
6. PSE&G CALCULATIONS FOR RADIATION - ENVIRON. QUAL.
7. PSE&G DOCUMENTATION EVALUATION - EQ24
8. B.I.W. REPORT # 8913 (EQ24.00)
9. STONE & WEBSTER THERMAL ANAYSIS 1/24/79 (EQ24.01)
10. PSE&G AGING REVIEW EQ24.03

Notes:

A. CABLES QUALIFIED TO WORSE CASE CONTAINMENT CONDITIONS
B. SOME COMPONENTS MAY BECOME FLOODED AFTER PERFORMING SAFETY FUNCTION FOLLOWING IN-CONTAINMENT ACCIDENT. CABLES ASSOCIATED WITH SUCH COMPONENTS ARE NOT REQUIRED TO BE OPERABLE IN A SUBMERGED STATE.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FOLM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ELECTRICAL CABLING Identification: REFERENCE SPECIFIC SYSTEM COMPONENT CABLE MARK NUMBER Component: ELECTRICAL CABLES Manufacturer: BOSTON INSULATED WIRE Model: COAXIAL XLPE INSULATION Service: Function: SPECIFIC SYSTEM COMPONENT REFERENCED ABOVE # Accuracy: Spec. N/A Demon. Location: CONTAINMENT (NOTE A)	Operating Time	LOCA/MSLB 120 DAYS	164 DAYS	1	7,8	SEQUENTIAL/ SIMULTANEOUS TEST	NONE	—
	Temperature	271/350°F	340°F FIG. 23 B	2,3	7,8,9	(PREAGED, PREAGE/RADIATION, ACCIDENT/RAD.)		TIME-TEMP ANALYSIS PERFORMED
	Pressure	43.2/42.8 PSIG	110 PSIG FIG. 23B	4	7,8			—
	Relative Humidity	100%	100%	—				—
	Chemical Spray	BORIC ACID & NaOH pH > 8.5 >22.5 HRS	3000 PPM BORON NaOH PH 10.5 24 HRS	5				—
	Radiation	5×10^7 R	2×10^8 R	6	—	—	—	—
	Aging	—	40 YEARS	—	8,10	—	—	NO SPECIAL MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	—	—	—	NONE	NOTE B

References:
1. POST ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. FSAR; FIG. 7.5-5 & QS.82, QS.85
3. NRC SER FOR SALEM (SUPR 4), NUREG 0517 4/80; PG. 3-10
4. FSAR; FIGS. 7.5-4, 14.3-25, PG. 14.3-56 & QS.82, QS.85
5. FSAR; PG. 6.4-10 & TABLE 6.2-11
6. PSE&G CALCULATIONS FOR RADIATION - ENVIRON. QUAL.
7. PSE&G DOCUMENTATION EVALUATION - EQ 27
8. B.I.W. REPORT # 8912 (EQ27.00)
9. STONE & WEBSTER THERMAL ANALYSIS 1/24/79 (EQ27.02)
10. PSE&G AGING REVIEW EQ27.04

Notes:
A. CABLES QUALIFIED TO WORSE CASE CONTAINMENT CONDITIONS
B. SOME COMPONENTS MAY BECOME FLOODED AFTER PERFORMING SAFETY FUNCTION FOLLOWING IN-CONTAINMENT ACCIDENT. CABLES ASSOCIATED WITH SUCH COMPONENTS ARE NOT REQUIRED TO BE OPERABLE IN A SUBMERGED STATE.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ELECTRICAL CABLING Identification: REFERENCE SPECIFIC SYSTEM COMPONENT CABLE MARK NUMBER Component: ELECTRICAL CABLES Manufacturer: TRIANGLE - PWC, INC. Model: Service: Function: SPECIFIC SYSTEM COMPONENT REFERENCED ABOVE Accuracy: Spec. N/A Demon. Location: CONTAINMENT (NOTE A)	Operating Time	LOCA/MSLB 120 DAYS	30 DAYS EQUIVALENT 293 DAYS	1	7,8	SEQUENTIAL TEST	NONE	—
	Temperature	271/350°F	346° F FIG. 24	2,3	7, 8, 9	(PREAGED, RADIATION, ACCIDENT)		TIME - TEMP. ANALYSIS PERFORMED
	Pressure	43.2/42.8 PSIG	70/113 PSIG FIG. 24	4				—
	Relative Humidity	100%	100 %	—				—
	Chemical Spray	BORIC ACID & NaOH pH > 8.5 > 22.5 HRS	BORIC ACID + NaOH PH 9-11 30 DAYS	5				—
	Radiation	5×10^7 R	2×10^8 R	6				—
	Aging	—	40 YEARS	—	8, 10, 11			NO SPECIAL MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	—	—	—	NONE	NOTE B

References:
1. POST ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. FSAR; FIG. 7.5-5 & QS.82, QS.85
3. NRC SER FOR SALEM (SUPP. 4), NUREG 0517 4/80; PG. 3-10
4. FSAR; FIGS. 7.5-4, 14.3-25, PG. 14.3-56 & QS.82, QS.85
5. FSAR; PG. 6.4-10 & TABLE 6.2-11
6. PSE&G CALCULATIONS FOR RADIATION - ENVIRON. QUAL.
7. PSE&G DOCUMENTATION EVALUATION - EQ06
8. ISOMEDIX TEST REPORT DATED 2/77 (EQ06.00)
9. STONE & WEBSTER THERMAL ANALYSIS 1/24/78 (EQ 06.04)
10. MYLE REPORT 17448-N
11. PSE&G AGING REVIEW EQ06.05

Notes:
A. CABLES QUALIFIED TO WORSE CASE CONTAINMENT CONDITIONS
B. SOME COMPONENTS MAY BECOME FLOODED AFTER PERFORMING SAFETY FUNCTION FOLLOWING IN-CONTAINMENT ACCIDENT. CABLES ASSOCIATED WITH SUCH COMPONENTS ARE NOT REQUIRED TO BE OPERABLE IN A SUBMERGED STATE.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ELECTRICAL * CABLING Identification: REFERENCE SPECIFIC SYSTEM COMPONENT CABLE MARK NUMBER Component: ELECTRICAL CABLES Manufacturer: ANACONDA Model: Service: Function: SPECIFIC SYSTEM COMPONENT REFERENCED ABOVE Accuracy: Spec. N/A Demon. Location: CONTAINMENT (NOTE A)	Operating Time	LOCA/MSLB 120 DAYS	130 DAYS	1	7,8,9	SEQUENTIAL TEST	NONE	—
	Temperature	271/350°F	346°F FIG. 25	2,3	7,8,10	(PREAGED, RADIATION, ACCIDENT)		TIME-TEMP. ANALYSIS PERFORMED
	Pressure	43.2/42.8 PSIG	113 PSIG FIG. 25	4	7,8			—
	Relative Humidity	100%	100%	—	7,9			—
	Chemical Spray	BORIC ACID & NaOH pH > 8.5 > 22.5 HRS	BORIC ACID & NaOH PH 10.5 30 DAYS	5	7,8			—
	Radiation	5×10^7 R	2×10^8 R	6	7,8			—
	Aging	—	40 YEARS	—	8,11,12,13	—	—	NO SPECIAL MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	—	—	—	NONE	NOTE B

References:
1. POST ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. FSAR; FIG. 7.5-5 & QS.82, QS.85
3. NRC SER FOR SALEM (SUPP. 4), NUREG 0517 4/80; PG. 3-10
4. FSAR; FIGS. 7.5-4, 14.3-25, PG. 14.3-56 & QS.82, QS.85
5. FSAR; PG. 6.4-10 & TABLE 6.2-11
6. PSE&G CALCULATIONS FOR RADIATION - ENVIRON. QUAL.
7. PSE&G DOCUMENTATION EVALUATION - EQ03
8. F.I.R.L. FINAL REPORT FC4350-3 (EQ03.00)
9. PSE&G DOCUMENT EQ03.02
10. STONE & WEBSTER THERMAL ANALYSIS 1/24/79 (EQ03.04)
11. PSE&G AGING REVIEW EQ03.05
12. WYLE REPORT 17448-13
13. ATTACHMENT TO FRL FC4350-3 (EQ05.03)

Notes:
A. CABLES QUALIFIED TO WORSE CASE CONTAINMENT CONDITIONS
B. SOME COMPONENTS MAY BECOME FLOODED AFTER PERFORMING SAFETY FUNCTION FOLLOWING IN-CONTAINMENT ACCIDENT. CABLES ASSOCIATED WITH SUCH COMPONENTS ARE NOT REQUIRED TO BE OPERABLE IN A SUBMERGED STATE.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ELECTRICAL CABLING Identification: REFERENCE SPECIFIC SYSTEM COMPONENT CABLE MARK NUMBER Component: ELECTRICAL CABLES Manufacturer: ROCKBESTOS/CERRO Model: Service: Function: SPECIFIC SYSTEM COMPONENT REFERENCED ABOVE Accuracy: Spec. N/A Demon. Location: CONTAINMENT (NOTE A)	Operating Time	LOCA/MSLB 120 DAYS	130 DAYS EQUIVALENT 164 DAYS	1	7,8	SEQUENTIAL TEST	NONE	—
	Temperature	271/350°F	340° F FIG. 26	2,3	7,8,9	(PREAGED, RADIATION, ACCIDENT)		TIME-TEMP. ANALYSIS PERFORMED
	Pressure	43.2/42.8 PSIG	113 PSIG FIG. 26	4	7, 8			—
	Relative Humidity	100%	100%	—				—
	Chemical Spray	BORIC ACID & NaOH pH > 8.5 > 22.5 HRS	3000 PPM BORIC ACID PH 9-11 30 DAYS	5				—
	Radiation	5×10^7 R	2×10^8 R	6				—
	Aging	—	40 YEARS	—	8,10			NO SPECIAL MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	—	—	—	NONE	NOTE B

References:

1. POST ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. FSAR; FIG. 7.5-5 & QS.82, QS.85
3. NRC SER FOR SALEM (SUPP 4), NUREG 0517 4/80; PG. 3-10
4. FSAR; FIGS. 7.5-4, 14.3-25, PG. 14.3-56 & QS.82, QS.85
5. FSAR; PG. 6.4-10 & TABLE 6.2-11
6. PSE&G CALCULATIONS FOR RADIATION - ENVIRON. QUAL.
7. PSE&G DOCUMENTATION EVALUATION - EQ08
8. F.I.R.L. FINAL REPORT F-C3798 EQ08.00
9. STONE & WEBSTER THERMAL ANALYSIS 1/29/79 (EQ 08.01)
10. PSE&G AGING REVIEW EQ 08.02

Notes:

A. CABLES QUALIFIED TO WORSE CASE CONTAINMENT CONDITIONS
B. SOME COMPONENTS MAY BECOME FLOODED AFTER PERFORMING SAFETY FUNCTION FOLLOWING IN-CONTAINMENT ACCIDENT. CABLES ASSOCIATED WITH SUCH COMPONENTS ARE NOT REQUIRED TO BE OPERABLE IN A SUBMERGED STATE.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ELECTRICAL CABLING * Identification: REFERENCE SPECIFIC SYSTEM COMPONENT CABLE MARK NUMBER Component: ELECTRICAL CABLES Manufacturer: ROCKBESTOS / SILICONE Model: Service: Function: SPECIFIC SYSTEM COMPONENT REFERENCED ABOVE * Accuracy: Spec. N/A Demon. Location: CONTAINMENT (NOTE A)	Operating Time	LOCA/HSLB 120 DAYS	30 DAYS EQUIVALENT 164 DAYS	1	7,8	SEQUENTIAL TEST (PREAGED, RADIATION, ACCIDENT)	NONE	—
	Temperature	271/350°F	340° F FIG. 26A	2,3	7,8,9			TIME - TEMP. ANALYSIS PERFORMED
	Pressure	43.2/42.8 PSIG	104 PSIG FIG. 26A	4	7,8			—
	Relative Humidity	100%	100 %	—				—
	Chemical Spray	BORIC ACID & NaOH pH > 8.5 > 22.5 HRS	3000 PPM BORON PH 9-11 24 HRS	5				—
	Radiation	5×10^7 R	2×10^8 R	6				—
	Aging	—	40 YEARS	—	8,10,11			NO SPECIAL MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	—	—	—	NONE	NOTE B

References:
1. POST ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. FSAR; FIG. 7.5-5 & QS.82, QS.85
3. NRC SER FOR SALEM (SUPP. 4), NUREG 0517 4/80; PG. 3-10
4. FSAR; FIGS. 7.5-4, 14.3-25, PG. 14.3-56 & QS.82, QS.85
5. FSAR; PG. 6.4-10 & TABLE 6.2-11
6. PSE&G CALCULATIONS FOR RADIATION - ENVIRON. QUAL.
7. PSE&G DOCUMENTATION EVALUATION - EQ07
8. ROCKBESTOS TEST REPORT DATED 3/2/78 (EQ07.00)
9. STONE & WEBSTER THERMAL ANALYSIS 1/24/79 (EQ07.01)
10. WYLE REPORT 17448-12
11. BE&G AGING REVIEW EQ07.02

Notes:
A. CABLES QUALIFIED TO WORSE CASE CONTAINMENT CONDITIONS
B. SOME COMPONENTS MAY BECOME FLOODED AFTER PERFORMING SAFETY FUNCTION FOLLOWING IN-CONTAINMENT ACCIDENT. CABLES ASSOCIATED WITH SUCH COMPONENTS ARE NOT REQUIRED TO BE OPERABLE IN A SUBMERGED STATE.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ELECTRICAL CABLING * Identification: REFERENCE SPECIFIC SYSTEM COMPONENT CABLE MARK NUMBER Component: ELECTRICAL CABLES Manufacturer: OKONITE Model: Service: Function: SPECIFIC SYSTEM COMPONENT REFERENCED ABOVE # Accuracy: Spec. N/A Demon. Location: CONTAINMENT (NOTE A)	Operating Time	LOCA/MSLB 120 DAYS	130 DAYS	1	7,8	SEQUENTIAL TEST	NONE	—
	Temperature	271/350°F	345° F FIG. 27A&B	2,3	7,8,9,10	(PREAGED, RADIATION, ACCIDENT)		TIME-TEMP. ANALYSIS PERFORMED
	Pressure	42.2/42.8 PSIG	112 PSIG FIG. 27A&B	4	7,8			—
	Relative Humidity	100%	100%	—				—
	Chemical Spray	BORIC ACID & NaOH pH > 8.5 > 22.5 HRS	3000 PPM BORON NaOH PH 10.5 24 HRS	5				—
	Radiation	5×10^7 R	2×10^8 R	6				—
	Aging	—	40 YEARS	—	8,11,2			NO SPECIAL MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	—	—	—	NONE	NOTE B

References:
1. POST ACCIDENT TIME FOR REQUIRED INSTRUMENTATION AND CONTROLS
2. FSAR; FIG. 7.5-5 & QS.82, QS.85
3. NRC SER FOR SALEM (SUPP 4), NUREG 0517 4/80; PG. 3-10
4. FSAR; FIGS. 7.5-4, 14.3-25, PG. 14.3-56 & QS.82, QS.85
5. FSAR; PG. 6.4-10 & TABLE 6.2-11
6. PSE&G CALCULATIONS FOR RADIATION - ENVIRON. QUAL.
7. PSE&G DOCUMENTATION EVALUATION - EQ09
8. OKONITE TEST REPORT 11/74 (EQ09.00)
9. OKONITE ENGINEERING REPORT # 141 (EQ 09.01)
10. STONE & WEBSTER THERMAL ANALYSIS 1/21/71 (EQ09.03)
11. NYLE REPORT 17493-8
12. PSE&G AGING REVIEW EQ 09.04

Notes:
A. CABLES QUALIFIED TO WORSE CASE CONTAINMENT CONDITIONS
B. SOME COMPONENTS MAY BECOME FLOODED AFTER PERFORMING SAFETY FUNCTION FOLLOWING IN-CONTAINMENT ACCIDENT. CABLES ASSOCIATED WITH SUCH COMPONENTS ARE NOT REQUIRED TO BE OPERABLE IN A SUBMERGED STATE.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: Electric Power Distribution Identification: A, B, C East/West Vital Valve Control Centers Component: Motor Control Centers 230v Manufacturer: General Electric Model: 7700 Service: Control Of Electrical Power Feed Function: Power To Various Motor Operated Valves Accuracy: Spec. N/A Demon. Location: Elec. Pen. Aux Bldg. 84'	Operating Time	Recirc 120 Days	>120 Days	1	3,4,5	Test	Basis 7	Material Certification To Test Item
	Temperature	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pressure	↓	↓	↓	↓	↓	↓	↓
	Relative Humidity	↓	↓	↓	↓	↓	↓	↓
	Chemical Spray	↓	↓	↓	↓	↓	↓	↓
	Radiation	$<10^5$ R (Note A)	10^6 R	2	3,4,5	Test	Basis 7	Material Certification To Test Item
	Aging	—		—			Basis 1	Qualified Life Determination
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	—	—	—	—	—	—

References:
1. Post Accident Time For Required Instrumentation And Controls
2. PSE&G Calculations For Radiation - Environ. Qual.
3. Wyle Labs Report No. 43757-2 (9/78)
4. G.E. Letter To PSE&G (11/17/80)
5. PSE&G Documentation Evaluation - EQ 14.00

Notes:
A. Radiation Exposure Presented Is For The Electrical Penetration Area (East MCC's) The Exposure For West MCC's In The Aux. Bldg. Is $<10^3$ R.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ENGINEERED SAFEGUARDS Identification: FAN COOLER MOTOR Component: FAN MOTOR Manufacturer: WESTINGHOUSE Model: SPLN # PSE-RCADCF(UNIT1) SPLN # PNT-RCADCF(UNIT2) Service: MOTIVE POWER TO FAN Function: CONTAINMENT VENTILATION Accuracy: Spec. Demon. N/A Location: CONTAINMENT EL. 130'	Operating Time	LOCA/MSLB 1 YEAR	1 YEAR POST LOCA	8	6,9,10, 11,12	TEST	NONE	—
	Temperature	271°/350°F	[ ] A,B,C	1,2 NOTE A	6,7,9	TEST/ ANALYSIS NOTE B		—
	Pressure	43.2/42.8 PSIG	[ ] A,B,C	3 NOTE A	6,9	TEST		—
	Relative Humidity	100%	[ ] A,B,C	—				—
	Chemical Spray	0.2 WT% NAOH 1.2 WT% BORIC ACID	0.46 WT% NAOH 1.4 WT% BORIC ACID	4				—
	Radiation	5×10^7 R	[ ] A,B,C	5	6,9,13			—
	Aging	—	MOTOR INSULATION & LEADS >40 YRS.	—	6,9,14, 15	TEST/ANALYSIS	—	REFER TO NOTE C FOR MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 AND Q5.85
2. NRC SER FOR SALEM (SUPP. 4), NUREG 0517, 4/80; PAGE 3-10
3. FSAR; FIGURE 14.3-25, PAGE 14.3-58 AND RESPONSE TO Q5.82 AND Q5.85
4. FSAR; PAGE 6.4-10
5. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
6. WESTINGHOUSE WCAP-7829 (EQ15.00)
7. WESTINGHOUSE LETTER SE-SA II-868 (EQ15.01)
8. SALEM EMERGENCY OPERATING PROCEDURES; I 4.0, I 4.4, I 4.6
9. PSE&G DOCUMENTATION REVIEW EQ 15
10. WCAP-9003 (EQ15.02)
11. WCAP-7498-L (EQ15.03)
12. WCAP-7722 (EQ15.04)
13. WCAP-7343-L (EQ15.05)
14. WCAP-8754 (EQ15.06)
15. PSE&G SALEM LUBRICATION MANUAL

Notes:

A. TEST REQUIREMENTS WERE TO WORST CASE ENVIRONMENTAL CONDITIONS AT SALEM WHICH IS LOCA/MSLB IN CONTAINMENT

B. MOTOR WINDING TEMP. CALCULATION TO BE 237°F (300HP) & 219°F (100 HP) TEST MOTOR QUALIFIED TO HOT SPOT WINDING TEMP OF 251°F (REF #7)

C. PREVENTITIVE MAINTENANCE REQUIRES MOTOR BEARING GREASE TO BE REPLACED EACH REFUELING. FURTHER ANALYSES OF GASKETS PENDING.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: COMBUSTIBLE GAS CONTROL Identification: WESTINGHOUSE/ STUETEVANT Component: HYDROGEN RECOMBINER Manufacturer: WESTINGHOUSE Model: Service: POST LOCA Function: LIMIT COMBUSTIBLE GAS BUILD-UP INSIDE CONTAINMENT Accuracy: Spec. N/A Demon. Location: CONTAINMENT EL. 130'	Operating Time	LOCA/MSLB	1 YEAR POST LOCA	7	6	SEPERATE TEST COMPARISON & ANALYSIS	NONE	—
	Temperature	271°/350°F	[ ] A,B,C NOTE B	1,2 NOTE A				—
	Pressure	43.2/42.8 PSIG	[ ] A,B,C	3 NOTE A				—
	Relative Humidity	100%	[ ] A,B,C	—				—
	Chemical Spray	.2wt% NaOH 1.2wt% BORIC ACID	BORIC ACID/NaOH pH 10	4				—
	Radiation	5×10^7 R	[ ] A,B,C	5	—	—	—	—
	Aging						BASIS #1	ANALYSIS MUST BE COMPLETED
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	

References:

1. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 & Q5.85
2. NRC SER FOR SALEM (SUPP 4), NUREG 0517, 4/80; PAGE 3-10
3. FSAR; FIGURE 14.3-25, PAGE 14.3-56 & RESPONSE TO Q5.82 AND Q 5.85
4. FSAR; PAGE 6.4-10
5. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
6. WESTINGHOUSE-BOEC-3851 7/21/80
7. SALEM EMERGENCY OPERATING PROCEDURE; I4.4

Notes:

A TEST REQUIREMENTS WERE TO WORST CASE ENVIRONMENT CONDITIONS AT SALEM WHICH IS LOCA/MSLB IN CONTAINMENT

B NRC HAS ACCEPTED (W) EVALUATION FOR HIGHER MSLB TEMP. REF. LETTER FROM J.F. STULE TO T.M. ANDERSON DATED 6-22-78

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: LIMIT SWITCH FOR WL16, VC2, VC3, VC6 Component: LIMIT SWITCH Manufacturer: MASONEILAN Model: 496-2 Service: POSITION INDICATOR FOR VALVES Function: OPERATOR INDICATION Accuracy: Spec. N/A Demon. Location: CONTAINMENT	Operating Time	LOCA/MSLB		1			NONE	NOTE A
	Temperature	271°/350°F		2 NOTE B				
	Pressure	43.2/42.8 PSIG		2				
	Relative Humidity	100 %		—				
	Chemical Spray	N/A		—				
	Radiation	$<5 \times 10^7$ R		3				
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: NOTE C	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	NOTE C

References:

1. SALEM EMERGENCY OPERATING PROCEDURES 1-4.0, 4.4, & 4.6
2. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A. REFER TO BASIS 18B

B. WORST CASE CONDITIONS

C. IVC2, IVC3, AND IVC6 ARE SUBJECT TO SUBMERGENCE, REFER TO FSAR; Q6.28

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: ELECTRICAL CABLING Identification: REFERENCE SPECIFIC SYSTEM Component: ELECTRICAL TERMINAL LUG CONNECTORS Manufacturer: BURNDY CORP. Model: HYLUG Service: Function: CONNECTION OF ELECTRICAL CABLES AT EQUIPMENT TERMINAL BLOCKS Accuracy: Spec. Demon. N/A Location: REFERENCE SPECIFIC SYSTEM	Operating Time	LOCA/MSLB 120 DAYS	10 DAYS IN ADVERSE ENVIR. EQUIVALENT TO >320 DAYS	—	6,7	NOTE C	NONE	—
	Temperature	271°/350°F	290°/351°F	1, 2 NOTE A				—
	Pressure	43.2/42.8 PSIG	50/131 PSIG	3 NOTE A				—
	Relative Humidity	100%	100%	—				—
	Chemical Spray	.2WT% NaOH 1.2WT% BORIC ACID	BORIC ACID/NaOH	4				—
	Radiation	5×10^7 R	NOTE B	5	—	—	—	—
	Aging	—	—	—	—	—	—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	

References:

1. FSAR; FIGURE 9.5-5 AND RESPONSE TO Q5.82 & Q5.85
2. NRC SER FOR SALEM (SUPP. 4), NUREG 0517, 4/80; PAGE 3-10
3. FSAR: FIGURE 14.3-25, PAGE 14.3-56 & RESPONSE TO Q 5.82 & Q 5.85
4. FSAR; PAGE 6.4-10
5. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
6. CONAX TEST REPORT IPS-400 (EQ19.00)
7. B&W DOCUMENTATION REVIEW EQA

NOTES:

A. TEST REQUIREMENTS WERE TO WORST CASE ENVIRONMENT CONDITIONS AT SALEM WHICH IS LOCA/MSLB IN CONTAINMENT
B. TERM. LUGS WERE NOT SUBJECTED TO IRRADIATION PRIOR TO TEST. LUGS ARE METAL & WOULD NOT BE ADVERSELY AFFECTED BY RADIATION.
C. TERM. LUGS WERE USED IN CONJUNCTION WITH TERM. BLOCK TEST (REF. PAGE 64)

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT SPRAY Identification: SPIN "P SE SIAPcs (UNIT 1) SPW "P NTSIAPcs (UNIT 2) Component: CONTAINMENT SPRAY PUMP MOTOR Manufacturer: WESTINGHOUSE (BUFFALO) Model: Service: CONTAINMENT COOLING Function: DRIVING POWER TO CONTAINMENT SPRAY PUMP Accuracy: Spec. N/A Demon. Location: AUX. BLDG. -84	Operating Time	RECIRC.	>120 DAYS	1, 2	4,5	TEST	NONE	—
	Temperature	N/A	N/A	N/A	N/A	N/A	N/A	—
	Pressure	↓	↓	↓	↓	↓	↓	—
	Relative Humidity	↓	↓	↓	↓	↓	↓	—
	Chemical Spray	↓	↓	↓	↓	↓	↓	—
	Radiation	<10³R	1.4X10⁸R	3	4,5,6	TEST	NONE	—
	Aging	—	MOTOR INSULATION >40 YEARS	—	4,5,7,8	COMPONENT TEST ANALYSIS	↓	REFER TO NOTE A FOR MAINTENANCE
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	NONE	N/A	NONE	N/A	↓	—

References:

1. SALEM OPERATING PROCEDURES; 1-4.0, 4.4, 4.6
2. FSAR; CHP. 6
3. RESULTS OF PSE1G CALCULATIONS IN RESPONSE TO TMI EVALUATIONS (SHIELDING)
4. WESTINGHOUSE REPORT WCAP-8754 (EQ 16.00)
5. PSE1G DOCUMENTATION EVALUATION - EQ 16
6. WCAP 7410-L VOL II (EQ16.01)
7. WCAP-8754 REV. 1 (EQ 16.02)
8. PSE1G SALEM LUBRICATION MANUAL

Notes:

A. PREVENTITIVE MAINTENANCE REQUIRES MOTOR BEARING OIL REPLACEMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT PARAMETERS Identification: TA4312 → 4316 TA4318 → 4321 TA4348 Component: THERMOCOUPLE Manufacturer: TEM TEX CO. Model: 304-250-FG-12-SA2-IN-CC-TC Service: Function: CONTAINMENT AIR TEMPERATURE Accuracy: Spec. N/A Demon. Location: CONTAINMENT	Operating Time	LOCA/MSLB		1			NONE	NOTE A
	Temperature	271°/350°F		3,4				
	Pressure	43.2/42.8 PSIG		5				
	Relative Humidity	100%		—				
	Chemical Spray	.2 Wt % NaOH 1.2 Wt % BORIC ACID		6				
	Radiation	5×10^7 R		2				
	Aging	—					—	—
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; 1-4.0, 4.4, 4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 & Q5.85
4. NRC SER FOR SALEM (SUPP. 4), NUREG 0517, 4/80; PAGE 3-10
5. FSAR; FIGURE 14.3-25 PAGE 14.3-56 AND RESPONSE TO Q5.82 & Q5.85
6. FSAR; PAGE C.4-10

Notes:

A. REFER TO BASIS #32

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT PARAMETERS Identification: LA0223 & LA0224 Component: LEVEL SWITCH Manufacturer: GEM Model: LS-800 Service: CONTAINMENT SUMP LEVEL Function: Accuracy: Spec. Demon. N/A Location: CONTAINMENT	Operating Time	LOCA/MSLB		1			NONE	NOTE A
	Temperature	271°/350°F		3,4				
	Pressure	43.2/42.8 PSIG		5				
	Relative Humidity	100%		—				
	Chemical Spray	.2 WT % NAOH 1.2 WT % BORIC ACID		6				
	Radiation	5×10^7 R		2				
	Aging	—					—	—
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURES 1-4.0, 4.4, 4.6
2. P.S.E&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 & Q5.85
4. NRC SER FOR SALEM (SUPP. 4), NUREG 0517, 4/80; PAGE 3-10
5. FSAR; FIGURE 14.3-25, PAGE PAGE 14.3-56 AND RESPONSE TO Q5.82 & Q5.85
6. FSAR; PAGE 6.4-10

Notes:

A. REFER TO BASIS #31

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT PARAMETERS Identification: VARIOUS (REFER TO MASTER LIST) Component: INCORE THERMOCOUPLES Manufacturer: WESTINGHOUSE Model: SPIN*RCRIUT (583F014) Service: INCORE TEMPERATURE Function: Accuracy: Spec. N/A Demon. Location: CONTAINMENT	Operating Time	LOCA/MSLB		1			NONE	NOTE A
	Temperature	271°/350°F		3,4				
	Pressure	43.2/42.8 PSIG		5				
	Relative Humidity	100%		—				
	Chemical Spray	.2 wt % NaOH 1.2 wt % BORIC ACID		6				
	Radiation	5×10^7 R		2				
	Aging							
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; E-4.0, 4.4, 4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 & Q5.85
4. NRC SER FOR SALEM (SUPP. 4), NUREG 0517, 4/80; PAGE 3-10
5. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q5.82 & Q5.85
6. FSAR; PAGE 6.4-10

Notes:

A. REFER TO BASIS*33

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT PARAMETERS Identification: TA6356 TO 6360Z Component: CONTAINMENT HUMIDITY DETECTORS Manufacturer: FOXBORO Model: 2711AG Service: CONTAINMENT HUMIDITY DETECTOR Function: Accuracy: Spec. N/A Demon. Location: CONTAINMENT	Operating Time	LOCA/MSLB		1.			NONE	NOTE A
	Temperature	271°/350°F		3,4				
	Pressure	43.2/42.8 PSIG		5				
	Relative Humidity	100%		—				
	Chemical Spray	.2 WT % NAOH 1.2 WT % BORIC ACID		6				
	Radiation	5×10^7 R		2				
	Aging						—	—
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-4.0-4.4.4.C
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 & Q5.85
4. NRC SER FOR SALEM (SUPR 4), NUREG 0517, 4/80; PAGE 3-10
5. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q5.82 & Q5.85
6. FSAR; PAGE 6.4-10

Notes:

A. REFER TO BASIS #37

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT PARAMETERS (UNIT #1) Identification: RA-43H (UNIT #1) Component: RADIATION MONITOR Manufacturer: TRAPELO Model: TA-63A Service: CONTAINMENT RADIATION DETECTOR HIGH RANGE Function: Accuracy: Spec. Denon. N/A Location: CONTAINMENT	Operating Time	LOCA/MSLB		1			BASIS #35	No DOCUMENTATION AVAILABLE
	Temperature	271°/350°F		3,4				
	Pressure	43.2/42.8 PSIG		5				
	Relative Humidity	100%		—				
	Chemical Spray	.2 WT % NAOH 1.2 WT % BORIC ACID		6				
	Radiation	5×10^7 R		2				—
	Aging							
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	

References:

1. SALEM EMERGENCY OPERATING PROCEDURES I-4.0, 4-4, 4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. FSAR; FIGURE 7.5-3 AND RESPONSE TO Q5.82 & Q5.85
4. NRC SER FOR SALEM (SUPP. 4), NUREG 0517, 4/80; PAGE 3-10
5. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q5.82 & Q5.85
6. FSAR; PAGE 6.4-10

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT PARAMETERS (UNIT-2) Identification: Component: RADIATION MONITOR Manufacturer: VICTOREEN Model: 877 Service: CONTAINMENT RADIATION, MONITOR HIGH RANGE Function: Accuracy: Spec. N/A Demon. Location: CONTAINMENT	Operating Time	LOCA/MSLB		1	7		BASIS #34	INSUFFICIENT DOCUMENTATION
	Temperature	271°/350°F	357°F FIG. 14	3,4				
	Pressure	43.2/42.8 PSIG	133 PSIG	5				
	Relative Humidity	100%	100%	—				
	Chemical Spray	.2wt% NaOH 1.2wt% BORIC ACID	YES	6				
	Radiation	5×10^7 R	2×10^8 R	2	—			—
	Aging							
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	

References:

1. SALEM EMERGENCY OPERATING PROCEDURES I-4.0 & 4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENT QUALIFICATION REVIEW REQUIREMENTS
3. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 & Q5.85
4. NRC SER FROM SALEM (SUPP 4) NUREG 0517, 4/80; PAGE 3-10
5. FSAR; FIGURE 14.3-25, PAGE 14.3-56 & RESPONSE TO Q5.82 & Q5.85
6. FSAR; PAGE 6.4-10
7. WYLE REPORT 44152-1 REV. A

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MISCELLANEOUS (UNIT #2) Identification: 2-R21	Operating Time	RECIRC.		1			BASIS #34	INSUFFICIENT DOCUMENTATION
Component:	Temperature	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manufacturer: VICTOREEN	Pressure	↓	↓	↓	↓	↓	↓	↓
Model: M865T, M866I M862S, FU, CD M868B Service: CONT. RADIATION MONITOR HIGH RANGE	Relative Humidity	↓	↓	↓	↓	↓	↓	↓
Function:	Chemical Spray	—	—	—	—	—	—	—
Accuracy: Spec. Demon. N/A	Radiation	$<10^5$ R		2			BASIS 34	INSUFFICIENT DOCUMENTATION
Location: ELEC. PEN-78	Aging						↓	↓
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-4.0, 4.4, 4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MISCELLANEOUS Identification: VARIOUS (REFER TO MASTER LIST) Component: ROD POSITION DETECTOR Manufacturer: WESTINGHOUSE Model: KD-8805-12 Service: ROD POSITION INDICATION Function: Accuracy: Spec. N/A Demon. Location: CONT.	Operating Time	LOCA/MSLB		1			NONE	NOTE A
	Temperature	271°/350°F		3, 4				
	Pressure	43.2/42.8 PSIG		5				
	Relative Humidity	100%		–				
	Chemical Spray	0.2 WT% NaOH 1.2 WT% BORIC ACID		6				
	Radiation	5×10^7 R		2				
	Aging							
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-4.0, 4.4, 4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q 5.82 & Q 5.85
4. NRC SER FOR SALEM (SUPP. 4), NUREG 0517, 4/80; PAGE 3-10
5. FSAR; FIGURE 14.3-25, PAGE 14.3-56 & RESPONSE TO Q 5.82 & Q 5.85
6. FSAR; PAGE 6.4-10

Notes:

A REFER TO BASIS #38

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MISCELLANEOUS Identification: VARIOUS (REFER TO MASTER LIST) Component: EXCORE NEUTRON DETECTORS Manufacturer: WESTINGHOUSE Model: SE# WL 23706 IR# WL 23707 PR# WL 23708 Service: NEUTRON DETECTION Function: Accuracy: Spec. N/A Demon. Location: CONT.	Operating Time	LOCA/MSLB		1			NONE	NOTE A
	Temperature	271/350°F		3, 4				
	Pressure	43.2/42.8 PSIG		5				
	Relative Humidity	100 %		—				
	Chemical Spray	0.2 WT % NaOH 1.2 WT % BORIC ACID		6				
	Radiation	5X10⁷ RADS		2				
	Aging							
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-1.0, 1.1, 1.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENT QUALIFICATION REVIEW REQUIREMENTS
3. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q 5.82 & Q 5.85
4. NRC SER FOR SALEM (SUPP. 1), NUREG 0517, 4/80; PAGE 3-10
5. FSAR; FIGURE 14.3-25, PAGE 14.3-36 AND RESPONSE TO Q 5.82 & Q 5.85
6. FSAR; PAGE 6.4-10

Notes:

A REFER TO BASIS #13 FOR PR ONLY. QUALIFICATION NOT REQUIRED FOR SR & IR

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MISCELLANEOUS Identification: Component: EXCORE NEUTRON DETECTOR PRE-AMP Manufacturer: WESTINGHOUSE Model: 940F231 Service: Function: SOURCE RANGE PRE-AMPLIFIER Accuracy: Spec. Demon. N/A Location: ELEC PEN-78	Operating Time	RECIRC		/			NONE	NOTE A
	Temperature			—				
	Pressure			—				
	Relative Humidity			—				
	Chemical Spray			—				
	Radiation	<10^5R		2				
	Aging							
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	

References:

1. SALEM EMERGENCY OPERATING PROCEDURE; I-4.0 4.4, 4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALI-FICATION REVIEW REQUIREMENTS.

Notes:

A REFER TO BASIS 13

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MISCELLANEOUS Identification: NOZZLE SUPPORT FANS Component: MOTORS Manufacturer: WESTINGHOUSE Model: TBFC Service: NOZZLE SUPPORT COOLING Function: MOTIVE POWER TO FAN Accuracy: Spec. N/A Demon. Location: CONT.	Operating Time	MSLB		1			NONE	NOTE A
	Temperature	350°F		3, 4				
	Pressure	42.8 PSIG		5				
	Relative Humidity	100 %		—				
	Chemical Spray	0.2 WT% NaOH 1.2 WT% BORIC ACID		6				
	Radiation	$<10^6$ R		2				—
	Aging							
Flood Level El: 83'-1" Above Flood Level: No	Submergence	—	—	—	—	—	NONE	NOTE A

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENT QUALIFICATION REVIEW REQUIREMENTS
3. FSAR; RESPONSE TO QS82 & QS85
4. NRC SER FOR SALEM (SUPP. 4), NUREG 0517, 4/80; PAGE 3-10
5. FSAR; PAGE 6.4-10

Notes:

A REFER TO BASIS #36

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MISCELLANEOUS **Identification:** REACTOR SHIELD VENT FANS **Component:** MOTORS **Manufacturer:** WESTINGHOUSE **Model:** TBAM **Service:** MOTIVE POWER FOR FAN **Function:** PROVIDE COOLING TO REACTOR SHIELD + AREA BETWEEN SHIELD AND VESSEL **Accuracy:** Spec. N/A Demon. **Location:** CONTAINMENT	Operating Time	MSLB		1			NONE	NOTE A
	Temperature	350°F		2, 3				
	Pressure	42.8 PSIG		2				
	Relative Humidity	100%		—				
	Chemical Spray	0.2 W_T% NaOH 1.2 WT% BORIC ACID		4				
	Radiation	$<10^5$ R		5				
	Aging							
Flood Level El: 83'-1" **Above Flood Level:** YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURE; I-4.6
2. FSAR; RESPONSE TO Q5.82/10585
3. NRC SER FOR SALEM (SUPP. NO. 4) NUREG 0517, 4/80, PAGES 3-10
4. FSAR; PAGE 6, 4-10
5. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A REFER TO BASIS #36

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MISCELLANEOUS Identification: CONTROL ROD DRIVE VENT FANS Component: MOTORS Manufacturer: WESTINGHOUSE Model: 77C27257 Service: COOLING TO ROD DRIVE MECHANISMS Function: MOTIVE POWER FOR FAN Accuracy: Spec. N/A Demon. Location: CONTAINMENT	Operating Time	MSLB		1			NONE	NOTE A
	Temperature	350°F		2,3				
	Pressure	42.8 PSIG		2				
	Relative Humidity	100%		—				
	Chemical Spray	.2Wt% NaOH 1.2Wt% BORIC ACID		4				
	Radiation	$< 10^5$ R		5				
	Aging							
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURE; I-4.6
2. FSAR; RESPONSE TO Q5.82
3. NRC SER FOR SALEM (SUPP. 4), NUREG 0517, 4/80 PAGE 3-10
4. FSAR; PAGE G.4-10
5. P.S.E&G. RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.

Notes:

A. REFER TO BASIS 36

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV1078, 1080, 1082 & 1084 (UNIT 2 ONLY) Component: SOLENOID VALVE Manufacturer: ASCO Model: X8342B3 Service: PILOT VALVE FOR CONT. ISOLATION VALVE Function: VALVE OPERATION Accuracy: Spec. Demon. N/A Location: ELEC. PENET.	Operating Time	RECIRC.		2			BASIS #17	INSUFFICIENT DOCUMENTATION
	Temperature	N/A						
	Pressure							
	Relative Humidity							
	Chemical Spray							
	Radiation	$<10^5$ R		1				
	Aging	—		—				
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
2. FSAR; TABLE 5.4-1

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CHARGING / LETDOWN Identification: LIMIT SWITCHES FOR 25J78, 25J79 & 25J108 Component: LIMIT SWITCH Manufacturer: NAMCO Model: EA-190-11302 Service: VALVE POSITION INDICATION Function: OPERATOR INDICATION AND VALVE POSITION Accuracy: Spec. N/A Denon. Location: MECH. PEN. 78	Operating Time	NEBA		2,3			BASIS #26	—
	Temperature	212°F		4				—
	Pressure	1PSIG		4				—
	Relative Humidity	100%		—				—
	Chemical Spray	N/A		—				—
	Radiation	$<5\times10^7$ R		1				—
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
2. FSAR CHAPTER 6
3. SALEM EMERGENCY OPERATING PROCEDURE I-4.0, 4.4, 4.6
4. PSE&G CALCULATIONS PER NEBA, INFORMATION IN FSAR SECTION 14.5

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV0249 (BOTH UNITS) SV0164 (UNIT 1 ONLY) Component: SOLENOID VALVES Manufacturer: ASCO Model: 831654 Service: PILOT VALVE FOR CONTAINMENT ISOL. VALVE Function: VALVE OPERATION Accuracy: Spec. Demon. N/A Location: MECHANICAL PENET. 78 & 100	Operating Time	HEBA <10 SECS		4			BASIS #17	INSUFFICIENT DOCUMENTATION
	Temperature	285°F		1 NOTE A				
	Pressure	1 PSIG		1				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	<5X10⁷R		2	3	ENGINEERING ANALYSIS		
	Aging	—		—				
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE&G CALCULATIONS PER HEBA INFORMATION IN FSAR SECTION 14.5
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS
3. RADIATION VALUE IS RECIRC & WOULD BE MINIMAL FOR SHORT TERM OPERATION
4. FSAR; TABLE 5.4-1

Notes:

A. WORST CASE CONDITIONS

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT VENTILATION Identification: SV1120-1124, SV1115-1119 SV0621, 624, 627, 630, 633 Component: SOLENOID VALVES Manufacturer: ASCO Model: X8342B22 Service: PILOT VALVE FOR CONTAINMENT ISOL. VALVE Function: VALVE OPERATION Accuracy: Spec. Demon. N/A Location: MECHANICAL PENET. 78 & 100 ¢ CONT.	Operating Time	LOCA/MSLB		NOTE A			BASIS #19	NO DOCUMENTATION AVAILABLE
	Temperature	271/350°F		NOTE A				
	Pressure	43.2/42.8 PSIG						
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	<5X10⁷R		1				
	Aging	—		—				
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A. WORST CASE CONDITIONS

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV1029 (UNIT 2) Component: SOLENOID VALVE Manufacturer: ASCO Model: HT8344A77 Service: PILOT VALVE FOR CONTAINMENT ISOLATION VALVE Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: MECH. PENET. 100'	Operating Time	HEBA <10 SEC.		4			BASIS #17	INSUFFICIENT DOCUMENTATION
	Temperature	285°F		1				
	Pressure	1 PSIG		1				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	<5x10⁷R		2	3	ENGINEERING ANALYSIS		
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION
4. FSAR; TABLE 5.4-1

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV0804A/SV1025(UNIT 2) SV0928 (UNIT 1&2) Component: SOLENOID VALVES Manufacturer: ASCO Model: NT8344A75 Service: PILOT VALVE FOR CONTAINMENT ISOLATION VALVE Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: MECH. PENET-100'	Operating Time	HEBA < 10 SEC.		4			BASIS #17	INSUFFICENT DOCUMENTA-TION
	Temperature	285°F		1				
	Pressure	1 PSIG		1				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$< 5 \times 10^7$ R		2	3	ENGINEERING ANALYSIS		
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. P.S.E&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
2. P.S.E&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICA-TION REVIEW REQUIREMENTS.
3. RADIATION VALVE IS RECIRC. & WOULD BE MINIMAL FOR SHORT TERM OPERATION
4. FSAR; TABLE 5.4-1

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV0396 (UNIT #2)	Operating Time	NEBA <10 SEC.		4			BASIS #17	INSUFFICIENT DOCUMENTATION.
Component: SOLENOID VALVE	Temperature	285°F		1				
Manufacturer: ASCO	Pressure	1 PSIG		1				
Model: LB8300B64RU	Relative Humidity	100%		—				
Service: PILOT VALVE FOR CONTAINMENT ISOL. VALVE.	Chemical Spray	N/A		—				
Function: VALVE OPERATION	Radiation	$<5 \times 10^7$ R		2	3	ENGINEERING ANALYSIS		
Accuracy: Spec. N/A Demon. Location: MECH. PENET. 100'	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. P.S. E&G CALCULATIONS PER NEBA INFORMATION IN FSAR SECTION 14.5
2. P.S. E&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION.
4. FSAR; TABLE 5.4-1

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV0688 Component: SOLENOID VALVE Manufacturer: ASCO Model: FT831654 Service: PILOT VALVE FOR CONTAINMENT ISOL. VALVE. Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: MECH. PENET. 78'	Operating Time	NEBA <10 SEC.		4			BASIS #17	INSUFFICIENT DOCUMENTATION.
	Temperature	212°F		1				
	Pressure	1 PSIG		1				
	Relative Humidity	100%		—				
	Chemical Spray	N/A		—				
	Radiation	$<5 \times 10^7$ R		2	3	ENGINEERING ANALYSIS		
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. P.S. E&G CALCULATIONS PER NEBA, INFORMATION IN FSAR SECTION 14.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION.
4. FSAR; TABLE 3.4-1

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV0400 SV0423 Component: SOLENOID VALVE Manufacturer: ASCO Model: FT8314B6 Service: PILOT VALVE FOR CONTAINMENT ISOL. VALVE Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: MECHANICAL PENET. 100	Operating Time	HEBA <10 SECS		4			BASIS #17	INSUFFICIENT DOCUMENT-ATION
	Temperature	285°F		1				
	Pressure	1 PSIG		1				
	Relative Humidity	100 %		—				
	Chemical Spray	N/A		—				
	Radiation	$<5\times10^7$ R		2	3	ENGINEERING ANALYSIS		
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. PSE&G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION
4. FSAR; TABLE 5.4-1

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec. *	Qualif.	Spec.	Qualif.			
System: COMBUSTABLE GAS CONTROL Identification: XAB650, XAB651 Component: HYDROGEN ANALYZERS Manufacturer: BACHARACH Model: Service: COMBUSTABLE GAS DETECTOR Function: Accuracy: Spec. N/A Demon. Location: CONTAINMENT	Operating Time	LOCA/ MSLB		1			BASIS #30	No DOCUMENT -ATION
	Temperature	271°/ 350°F		2				
	Pressure	43.2/ 42.8 PSIG		2				
	Relative Humidity	100 %		—				
	Chemical Spray							
	Radiation	$< 5 \times 10^7$ R		3				
	Aging	—	—	—	—	—	—	—
Flood Level El: 83'-1" Above Flood Level: Yes	Submergence	N/A	N/A	N/A	N/A	N/A	None	—

References:
1. SALEM EMERGENCY OPERATING PROCEDURE: I4.4
2. FSAR; SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: LIMIT SWITCHES FOR SS110, SS107, SS104 & SS103 Component: LIMIT SWITCH Manufacturer: NAMCO Model: D-2400X Service: POSITION INDICATOR FOR VALVES Function: OPERATOR INDICATION & VALVE CONTROL (REFER TO MASTER LIST) Accuracy: Spec. Demon. N/A Location: CONTAINMENT	Operating Time	LOCA/MSLB		1			NONE	NOTE A
	Temperature	271/350°F		2				
	Pressure	43.2/42.8 PSIG.		2				
	Relative Humidity	100 %		—				
	Chemical Spray	N/A		—				
	Radiation	<5X10⁷R		3				
	Aging	—		—				
Flood Level El: 83'-1" Above Flood Level: NO	Submergence						NOTE B	

References:

1. SALEM EMERGENCY OPERATING PROCEDURES. I-4.0, 4.4, & 4.6
2. FSAR; SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A. REFER TO BASIS 18B
B. REFER TO FSAR; Q6.28

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: MISCELLANEOUS Identification: Component: MALE/FEMALE PLUG-IN CONNECTORS Manufacturer: AMPHENOL Model: 48-06R-14-7S 48-00E-14-7P Service: ROD POSITION INDICATION WIRE CONNECTORS Function: Accuracy: Spec. N/A Demon. Location: CONTAINMENT	Operating Time	LOCA/MSLB		1			NONE	NOTE A
	Temperature	271°/350°F		3, 4				
	Pressure	43.2/42.8 PSIG		5				
	Relative Humidity	100%		———				
	Chemical Spray	.2wt% NaOH 1.2wt% BORIC ACID		6				
	Radiation	$< 5 \times 10^7$ R		2				
	Aging	———					———	———
Flood Level El: 83'-1" Above Flood Level: YES	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	———

References:

1. SALEM EMERGENCY OPERATING PROCEDURES; I-4.0.4.4.6
2. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATIONS REVIEW REQUIREMENTS
3. FSAR; FIGURE 7.5-5 AND RESPONSE TO Q5.82 & Q5.85
4. NRC SER FOR SALEM (SUPP. 4), NUREG 0517, 4/80; PAGE 3-10
5. FSAR; FIGURE 14.3-25, PAGE 14.3-56 AND RESPONSE TO Q 5.82 & Q5.85
6. FSAR; PAGE 6.4-10

Notes:

A. REFER TO BASIS 38

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: LIMIT SWITCH FOR 1PR1T Component: LIMIT SWITCH Manufacturer: MICROSWITCH Model: LSQ051 Service: POSITION INDICATION Function: Accuracy: Spec. N/A Denon. Location: CONTAINMENT	Operating Time	LOCA/MSLB		1			NONE	NOTE A
	Temperature	271°/350°F		2, 3				
	Pressure	43.2/42.8 PSIG		4				
	Relative Humidity	100 %		—				
	Chemical Spray	BORIC ACID NAOH PH>8.5		5				
	Radiation	$<5\times10^7$ R		6				
	Aging	—					—	—
Flood Level El: 83'-1" Above Flood Level: NO	Submergence	—	—	—	—	—	NONE	NOTE A

References:

1. SALEM EMERGENCY OPERATING PROCEDURE; I4.0
2. FSAR FIG. 7.5-5 & RESPONSE TO Q5.85 AND Q5.82
3. NRC SER FOR SALEM (SUPP. 4) NUREG 0517 4/80; PAGE 3-10
4. FSAR; FIGURE 14.3-25 & RESPONSE TO Q5.85 AND Q5.82
5. FSAR; PAGE 6.4-10 & TABLE 6.2-11
6. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS

Notes:

A. REFER TO BASIS 18B

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec. *	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: LIMIT SWITCH FOR 1PR18 Component: LIMIT SWITCH Manufacturer: MICROSWITCH Model: LSQ051 Service: POSITION INDICATION Function: Accuracy: Spec. N/A Demon. Location: MECH. PEN. 78	Operating Time	HEBA		1			BASIS #18A	No Documentation Available
	Temperature	212°F		2				
	Pressure	1 PSIG		2				
	Relative Humidity	100 %		—				
	Chemical Spray	N/A		—				
	Radiation	$< 5 \times 10^7$ R		3				
	Aging	—					—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. SALEM EMERGENCY OPERATING PROCEDURE; I 4.0
2. PSE&G CALCULATIONS PER HEBA; INFORMATION IN FSAR SECTION 14.5
3. PSE&G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.

Notes:

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION - ENVIRONMENTAL

QUALIFICATION DATA EVALUATION FORM

EQUIPMENT DESCRIPTION	ENVIRONMENT			DOCUMENTATION		QUALIFICATION METHOD	OUTSTANDING ITEMS	REMARKS
	Parameter	Spec.	Qualif.	Spec.	Qualif.			
System: CONTAINMENT ISOLATION Identification: SV0505 (UNIT #2) Component: SOLENOID VALVE Manufacturer: ASCO Model: LB8314B6 Service: PILOT VALVE FOR CONTAINMENT ISOL. VALVE. Function: VALVE OPERATION Accuracy: Spec. N/A Demon. Location: MECH. PENET- 78'	Operating Time	HEBA <10 SEC.		4			BASIS #17	INSUFFICIENT DOCUMENTATION
	Temperature	212°F		1				
	Pressure	1 PSIG		1				
	Relative Humidity	—		—				
	Chemical Spray	—		—				
	Radiation	$<5\times10^7$ R		2	3	ENGINEERING ANALYSIS		
	Aging	—		—			—	—
Flood Level El: 83'-1" Above Flood Level: N/A	Submergence	N/A	N/A	N/A	N/A	N/A	NONE	—

References:

1. P.S. E/G CALCULATIONS PER HEBA, INFORMATION IN FSAR SECTION 14.5
2. P.S. E/G RADIATION CALCULATIONS PER ENVIRONMENTAL QUALIFICATION REVIEW REQUIREMENTS.
3. RADIATION VALUE IS RECIRC. AND WOULD BE MINIMAL FOR SHORT TERM OPERATION.
4. FSAR : TABLE 5.4-1

Notes:

VI. QUALIFICATION PROFILES

VI. QUALIFICATION PROFILES

Rosemount 1153A Transmitters	8
Barton 764 Lot 1 Transmitters	2B, 4, 7A, 7B
Barton 764 Lot 2 Transmitters	2A, 6A, 6B, 6C, 9A, 9B, 9C
Barton 763 Lot 1 Transmitters	2B, 4, 5A, 5B
Barton 763 Lot 2 Transmitters	2A, 3A, 3B, 3C
Rosemount 176 KS RTD's	1A, 1B
Barton 351 Pressure Sensor Bellows	28A, 28B, 28C
Victoreen 877 High Range Detector	14
Asco NP Series Solenoids	10, 11
Namco EA-180 Limit Switches	12
Instrument Panel Enclosures - PSE&G design	13
Limitorque SMB Motor-Operated Valves	15, 16
Buchanan Terminal Blocks 2B104, 2B108, 2B1012	17, 18A,B
Junction Boxes - PSE&G design	17, 18A, 18B
Raychem WCSF Splice	19
Conax Canister Type Electrical Penetrations	20
American Insulated Wire Cable	21A, 21B
Samuel Moore Cable	22
Boston Insulated Wire Cable	23, 23A, 23B
Triangle - PWC, Inc. Cable	24
Anaconda Cable	25
Rockbestos Cable	26, 26A
Okonite Cable	27A, 27B

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

A&C

FIGURE 1A

ROSEMOUNT [ ] RTDs A,C
TEMPERATURE TEST PROFILE
(EXCERPT FROM WCAP. 9157)

Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

FIGURE 1B

A, B, C

ROSEMOUNT [ ] A,C RTDs

TEST RESULTS FOR ENVIRONMENTAL PROFILE

(EXCERPT FROM WCAP-9157)

Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

FIGURE 2A

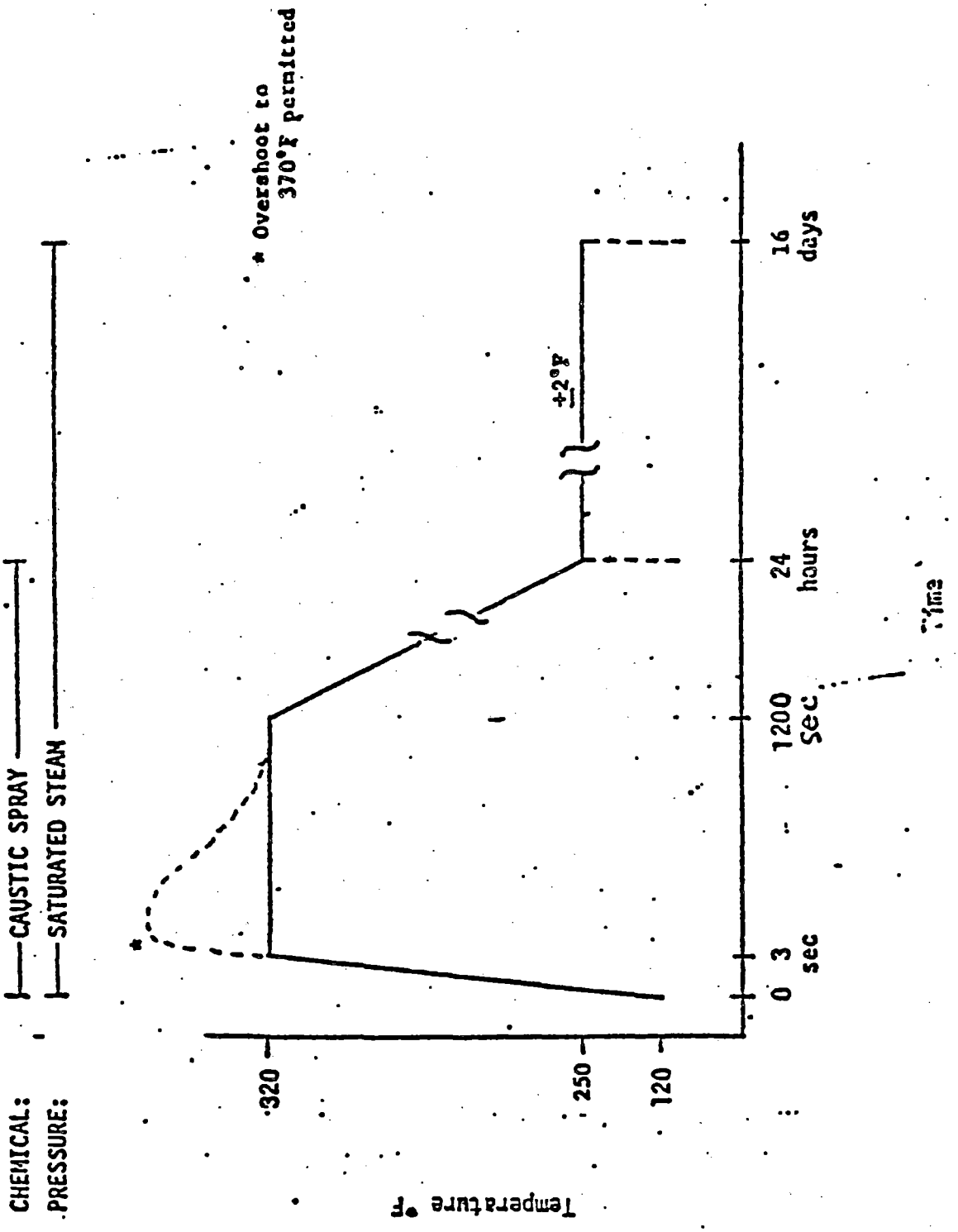


FIGURE 2.2

TEST CHAMBER ENVIRONMENT

BARTON 763 AND 764 TRANSMITTERS (LOT 2)
TEST PROFILE
(EXCERPT FROM (4) LETTER NS-THA-2184)

Revision I

FIGURE 2B

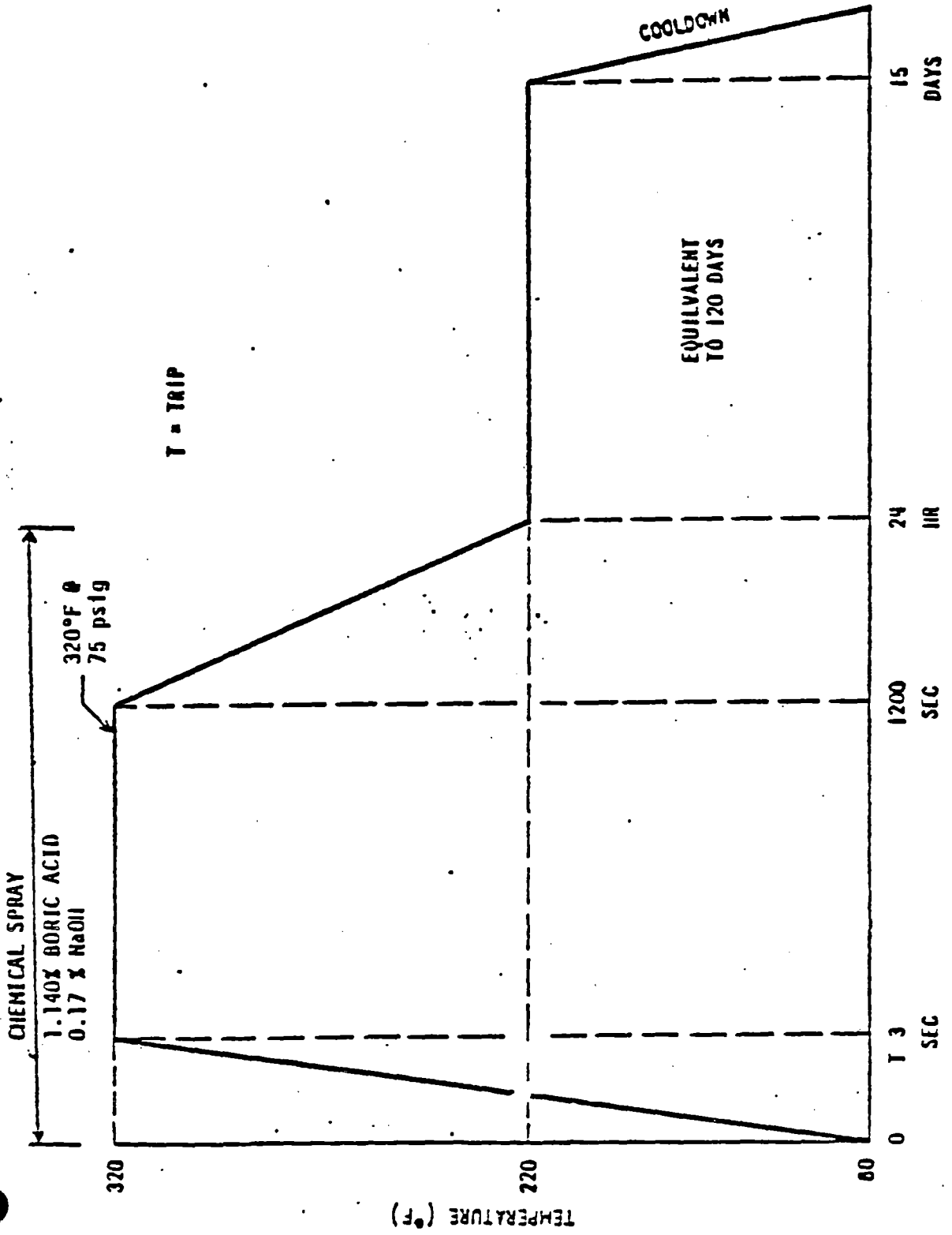


Figure 1-1 Sensor Environmental Qualification Program
Temperature Profile – Transmitters

BARTON 763 AND 764 TRANSMITTERS (LOT 1)
TEST PROFILE
(EXCERPT FROM (W) LETTER NS-TMA-2120)

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

FIGURE 3A

BARTON [ ] A,C TRANSMITTERS (LOT 2)
TEST RESULTS FOR ACCIDENT SIMULATION
(EXHIBIT FROM (WCAP LETTER NS-TMA-2184)

Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

A,C

FIGURE 3B

BARTON [ ]A,C TRANSMITTERS (LOT 2)
TEST RESULTS FOR ACCIDENT SIMULATION
(EXCERPT FROM (W) LETTER NS-TMA-2184)

Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

A,C

FIGURE 3C

BARTON [A,C] TRANSMITTERS (LOT 2)
TEST RESULTS FOR ACCIDENT SIMULATION
(EXCERPT FROM (W) LETTER NS-TMA-2184)

Error in Fersch Span

Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

FIGURE 4

A,B,C

[redacted]

BARTON [redacted] A,C TRANSMITTERS (LOT 1)
TEST RESULTS FOR LOCA SIMULATION
(EXCERPT FROM (W) LETTER NS-TMA-2120)

[redacted]

Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

FIGURE 5A

BARTON [ ] A.C. TRANSMITTERS (LOT 1)
TEST RESULTS FOR MSLB SIMULATION
(EXCERPT FROM (a) LETTER NS-TMA-2120)

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

FIGURE 5B

[redacted]

BARTON [redacted] A,C TRANSMITTERS (LOT I)
TEST RESULTS FOR MSLB SIMULATION
(EXHIBIT FROM (W) LETTER NS-TMA-2120)

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

FIGURE 6A

[redacted]

BARTON [redacted] A,C TRANSMITTERS (LOT 2)
TEST RESULTS FOR ACCIDENT SIMULATION
(FUNCTION FAIL @ 1 FTFD NIS-THA-2184)

ERROR IN % SPAN

Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

A,B,C

FIGURE 6B

BARTON [ ] A,C TRANSMITTERS (LOT 2)
TEST RESULTS FOR ACCIDENT SIMULATION

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Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

1,B,C

FIGURE 6C

BARTON [ ]A,C TRANSMITTERS (LOT 2)
TEST RESULTS FOR ACCIDENT SIMULATION
(EXCERPT FROM @ LETTER NS-THA-2184)

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

A,B,C

FIGURE 7A

BARTON [ ]$_{A,C}$ TRANSMITTERS (LOT 1)
TEST RESULTS FOR MSLB SIMULATION
(EXCERPT FROM (a) LETTER NS-TMA-2120)

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SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

B,C

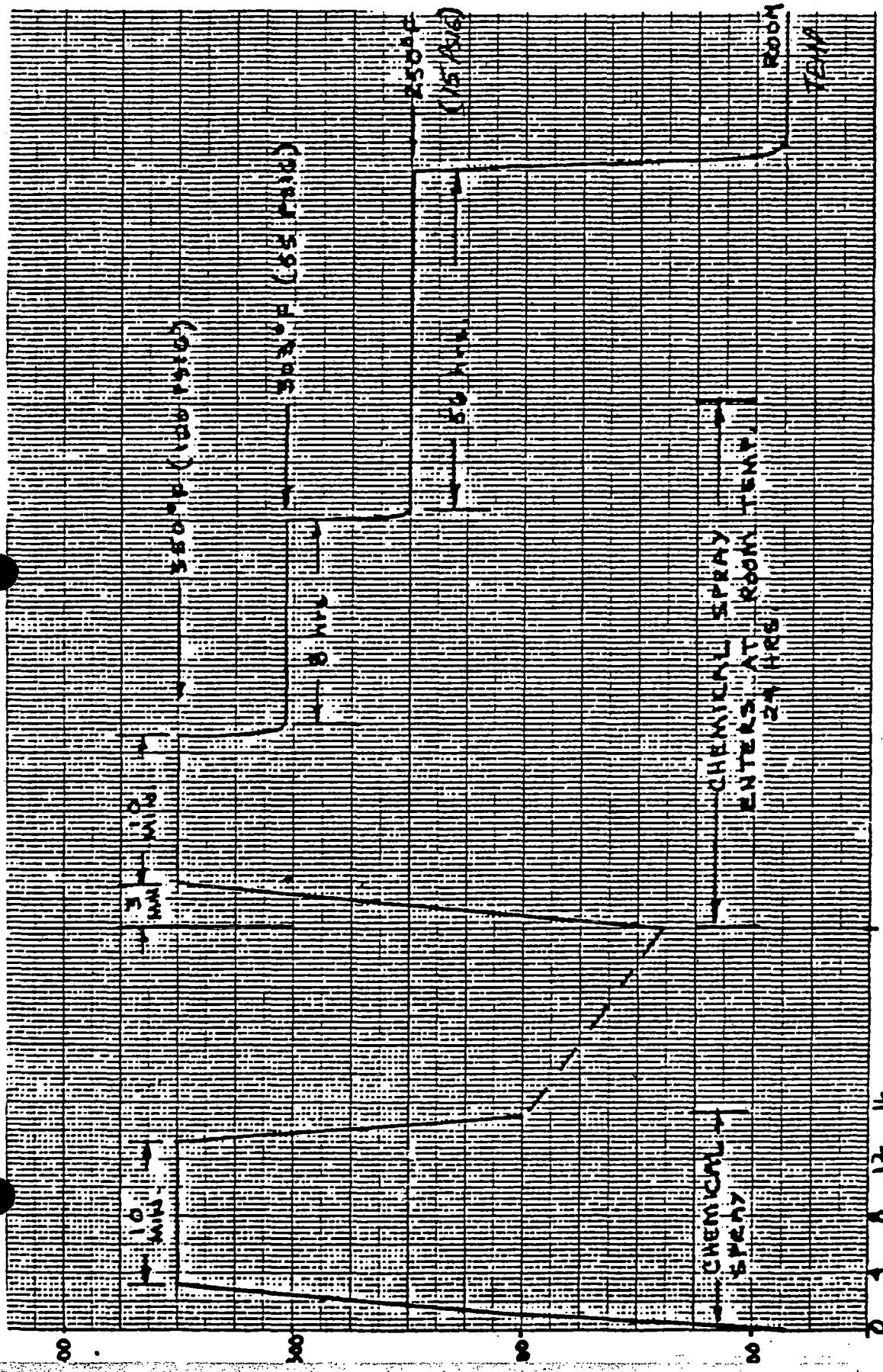
FIGURE 7B

BARTON [ ] A,C TRANSMITTERS (LOT 1)
TEST RESULTS FOR MSLB SIMULATION
(EXCERPT FROM (W) LETTER NS-TMA-2120)

Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

FIGURE 8



Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

1, B, C

FIGURE 9A

BARTON [A, C TRANSMITTERS (LOT 2)
TEST RESULTS FOR ACCIDENT SIMULATION
(FURNISHED FROM (W) LETTER NS-TMA-2184)

Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

A,B,C

FIGURE 9B

BARTON [ ] A,C TRANSMITTERS (LOT 2)
TEST RESULTS FOR ACCIDENT SIMULATION
(EXCERPT FROM (W) LETTER NS-THA-2184)

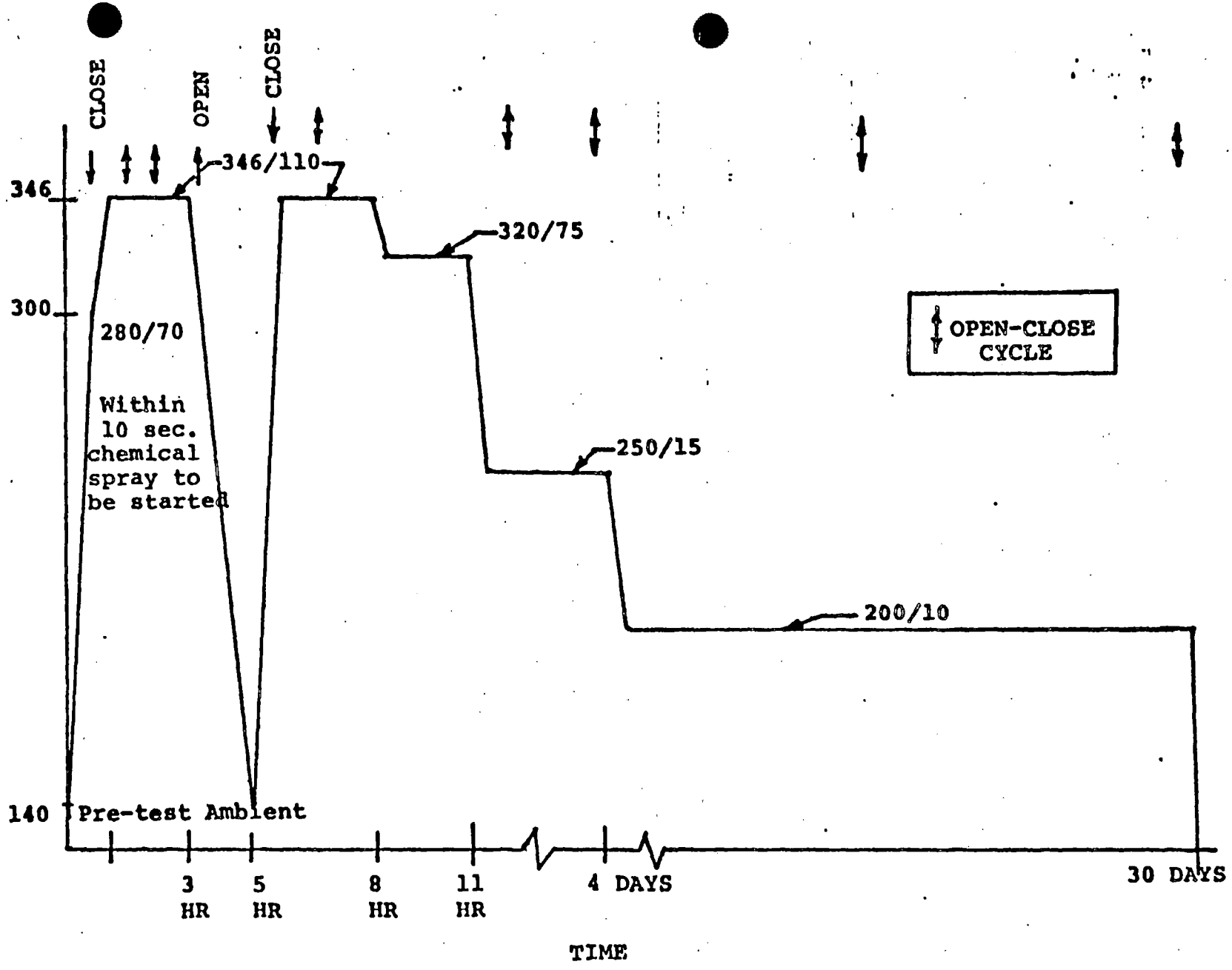
SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

A,B,C

FIGURE 9C

BARTON [ ]^{A,C} TRANSMITTERS (LOT 2)
TEST RESULTS FOR ACCIDENT SIMULATION
EXCERPT FROM (U) LETTER NS-TMA-2184

Revision 1



Temperature/Pressure Profile for simulation of loss-of coolant accident (LOCA) design basis event (DBE) by steam/chemical-spray environmental exposure.

ASCO NP SERIES SOLENOID VALVES TEST PROFILE

(EXCERPT FROM ASCO REPORT AQS 21678/TR)

FIGURE 10

Revision 1

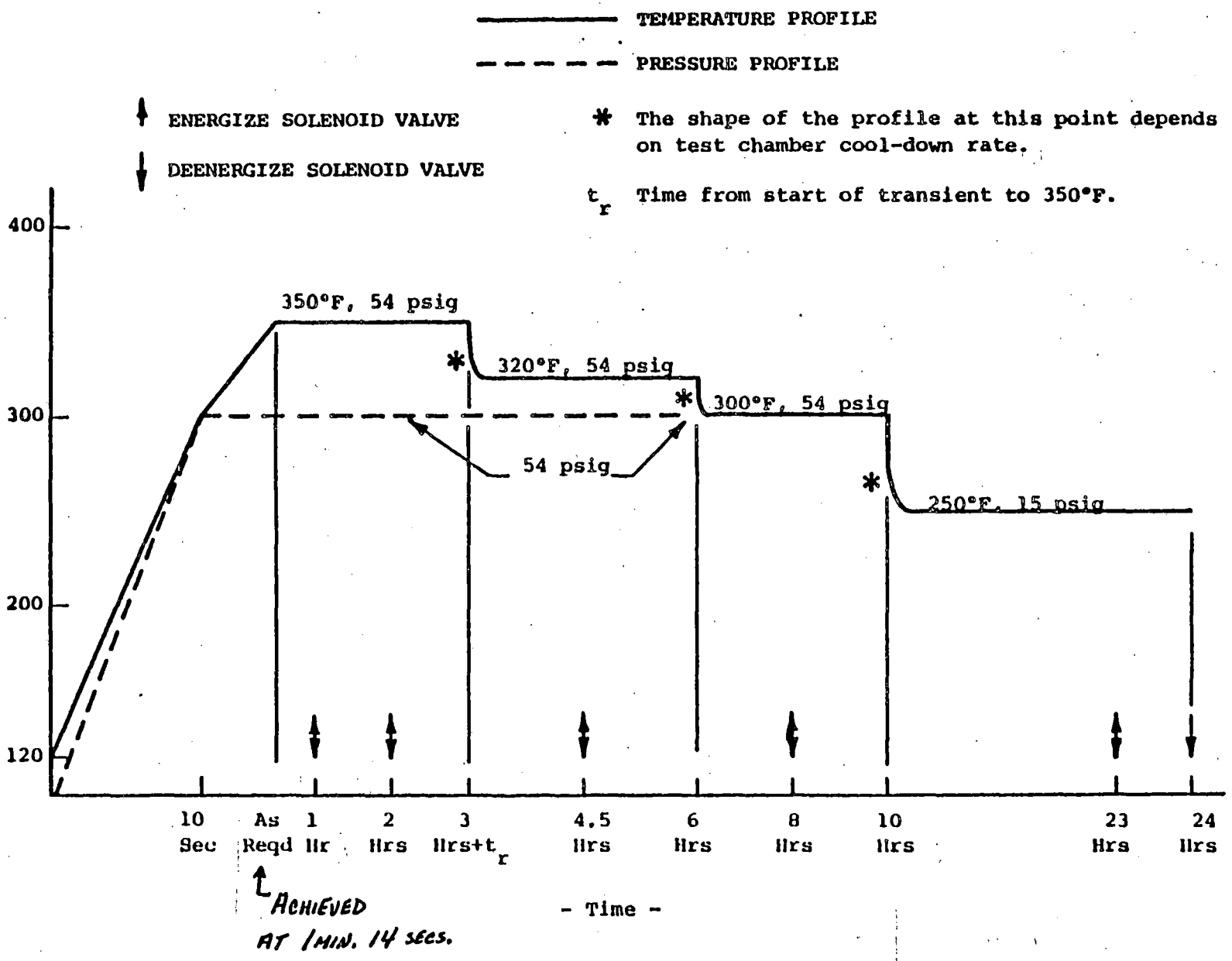


FIGURE 11

ASCO NP SERIES SOLENOID VALVES TEST PROFILE

(EXCERPT FROM WYLE REPORT 44439-1)

Revision 1

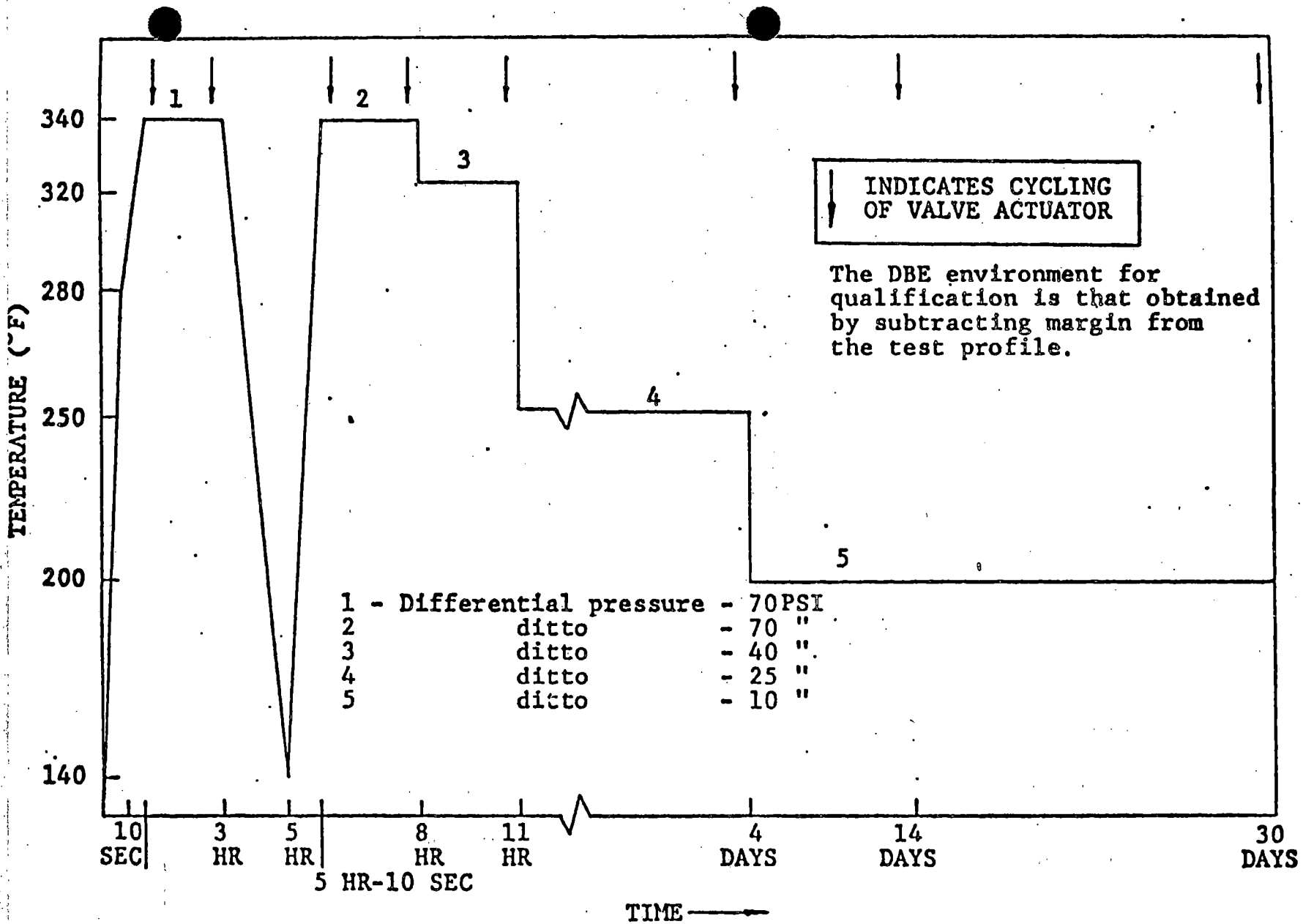


Fig 1
Test Chamber Temperature Profile for Accident Environment Simulation
(Taken from IEEE Standard 382-1972)

FIGURE 12

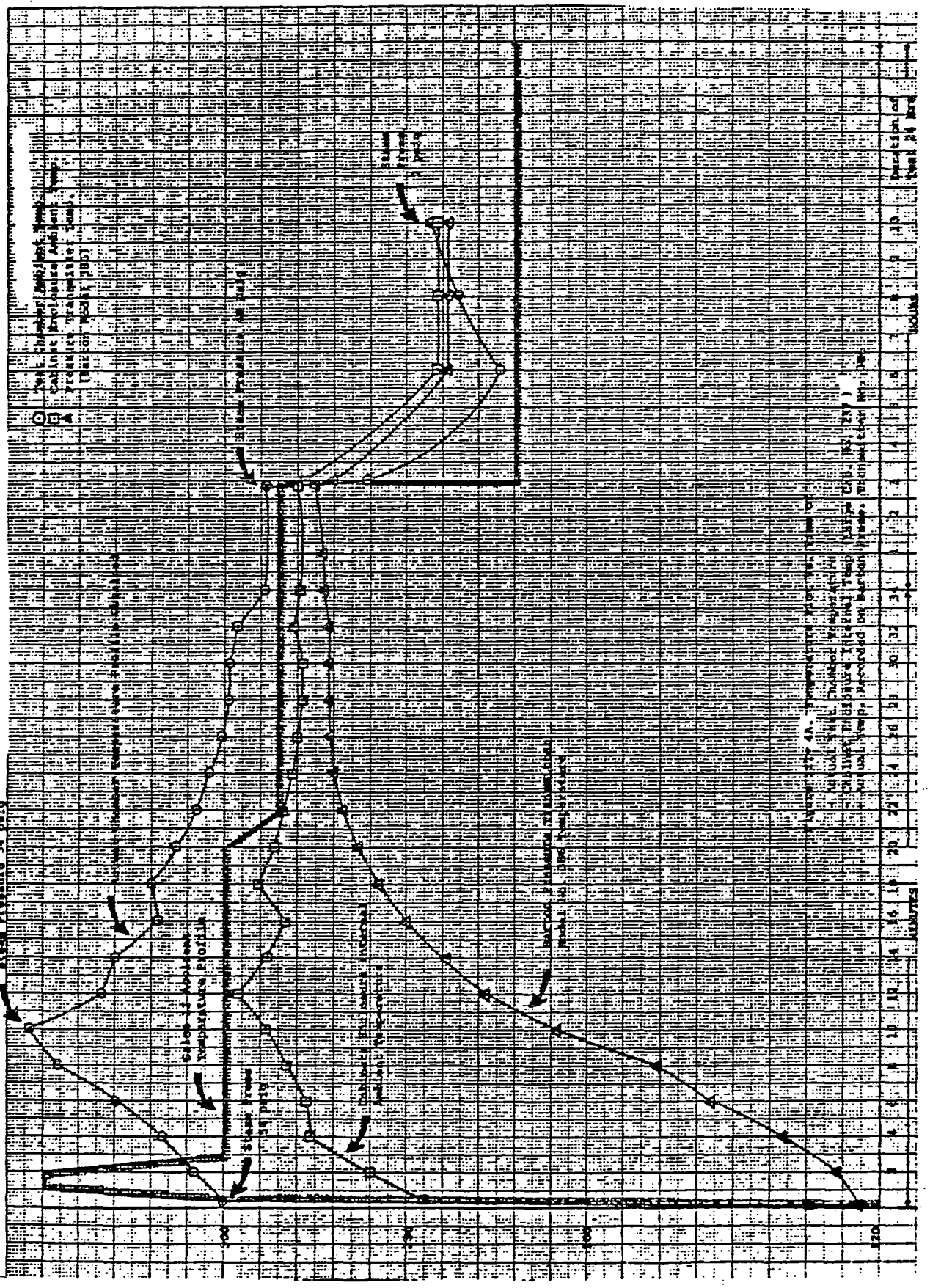
Revision 11

NAMCO EA-180 LIMIT SWITCH TEST PROFILE

(EXCERPT FROM EA-180 TEST REPORT DATED 9/78)

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
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REFERENCE FIGURES

FIGURE 13

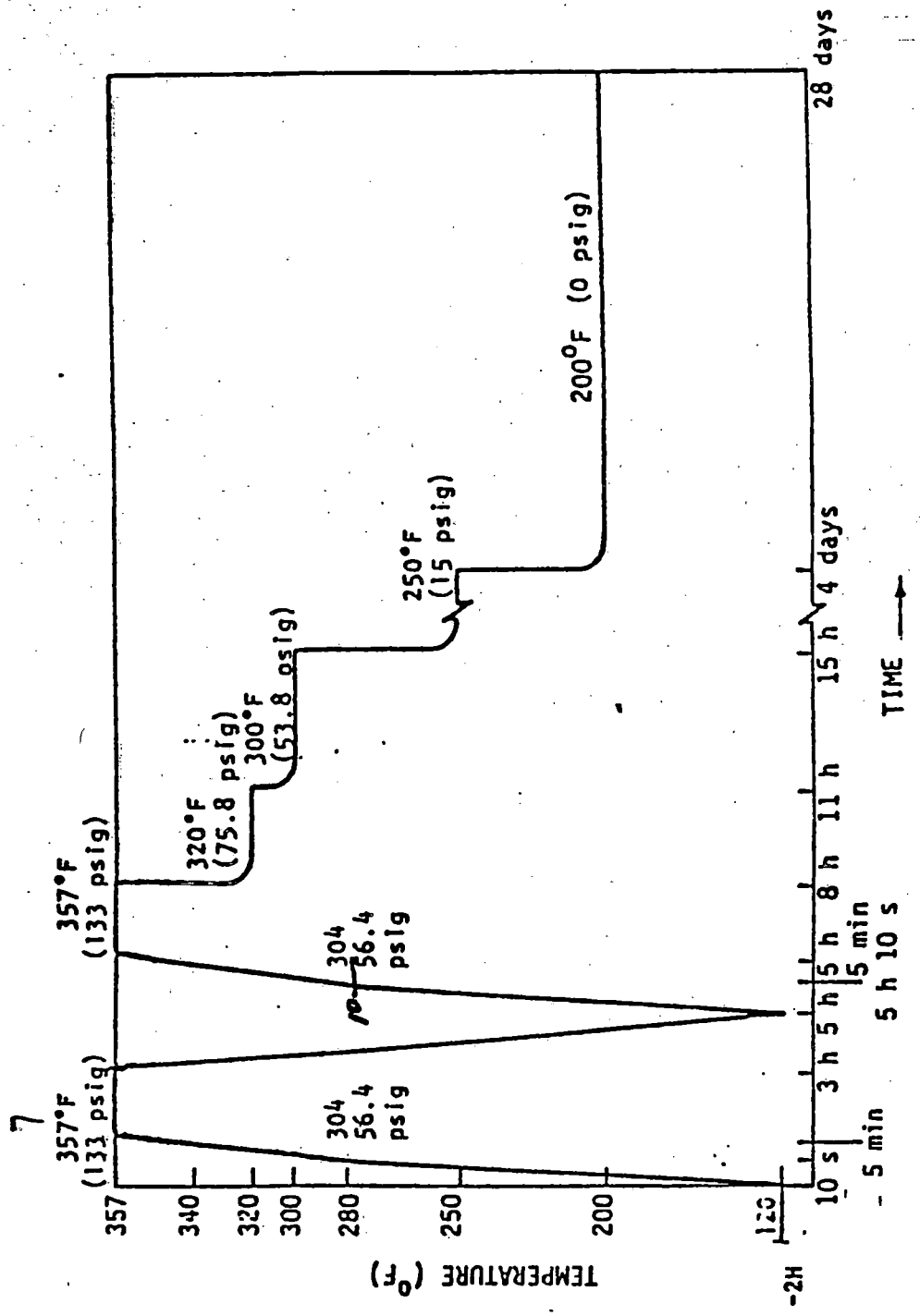


PSE&G Instrument Panel Enclosures
Profile and Results of Environmental Test
(Ennedot ENW Wyle Report 44439-2, Rev. A)

Revision 1

SALEM NUCLEAR GENERATING STATION
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FIGURE 14



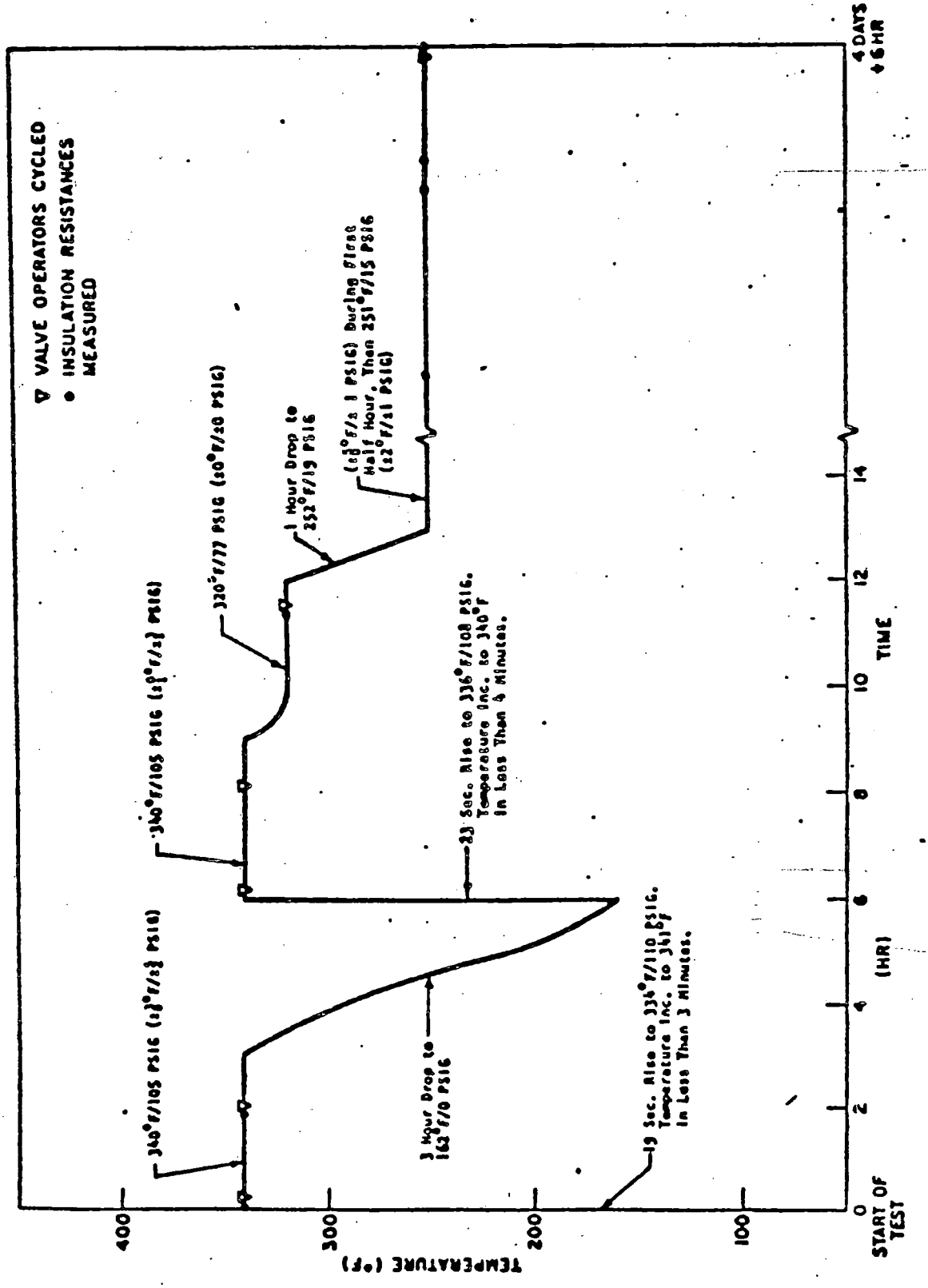
Test Chamber Temperature Profile for Environment Simulation
(Combined PWR/BWR)

FIGURE VI-1

VICTOREEN 877 HIGH RANGE DETECTOR
TEST PROFILE
(EXCERPT FROM WYLE REPORT 44152-1 REV A)

SALEM NUCLEAR GENERATING STATION
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FIGURE 15



LIMITORQUE MOTOR OPERATED VALVES
TEST PROFILE
(EXCERPT FROM FIRL REPORT F-C3441)

Revision 1

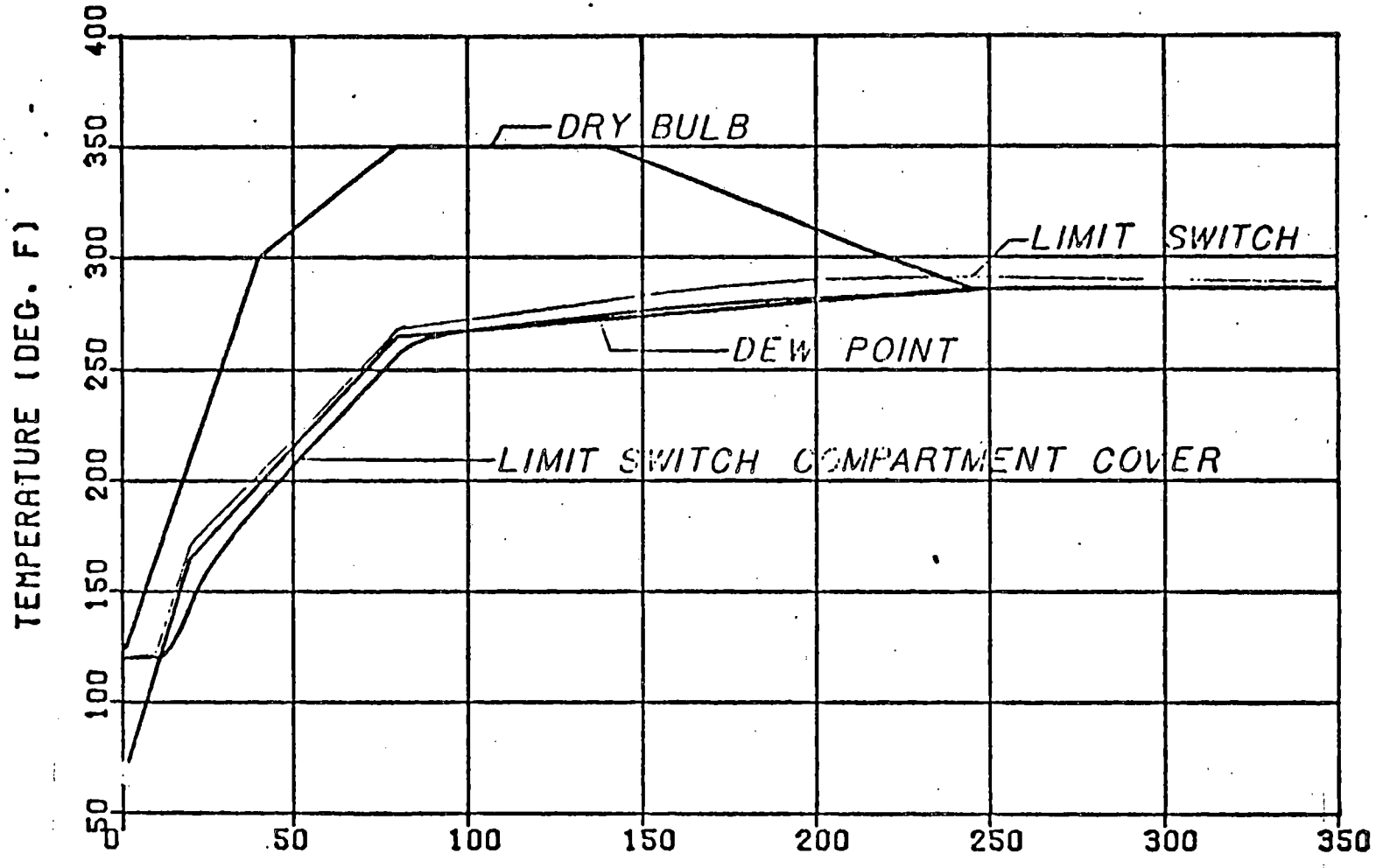


FIGURE 4
SURFACE TEMPERATURE TRANSIENT
LIMITORQUE VALVE OPERATOR
LIMITING STEAM LINE BREAK
SALEM NUCLEAR GENERATING STATION

LIMITORQUE MOTOR OPERATED VALVES

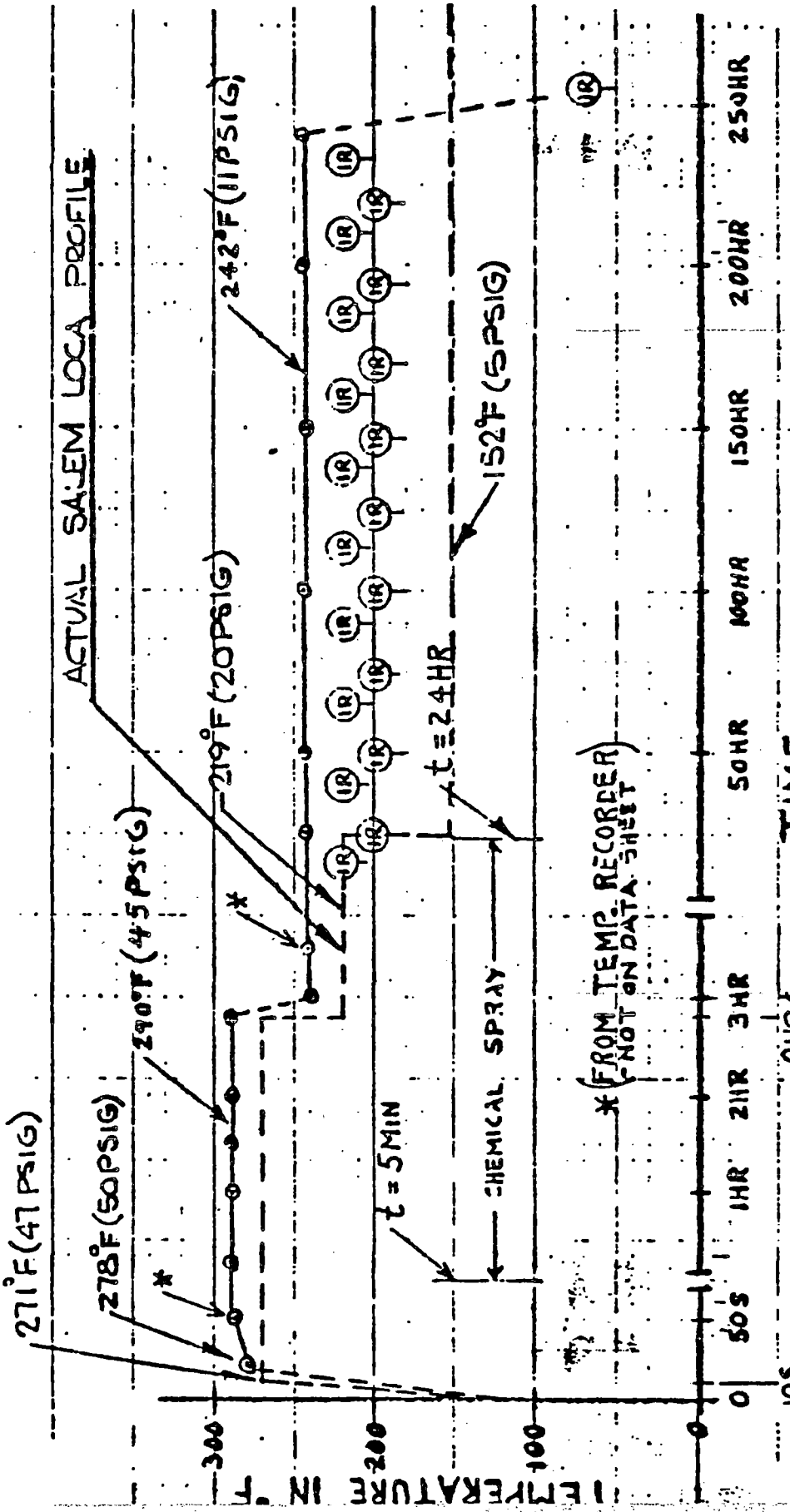
THERMAL ANALYSIS RESULTS

(EXCERPT FROM REPORT FOR SALEM)

Revision 1

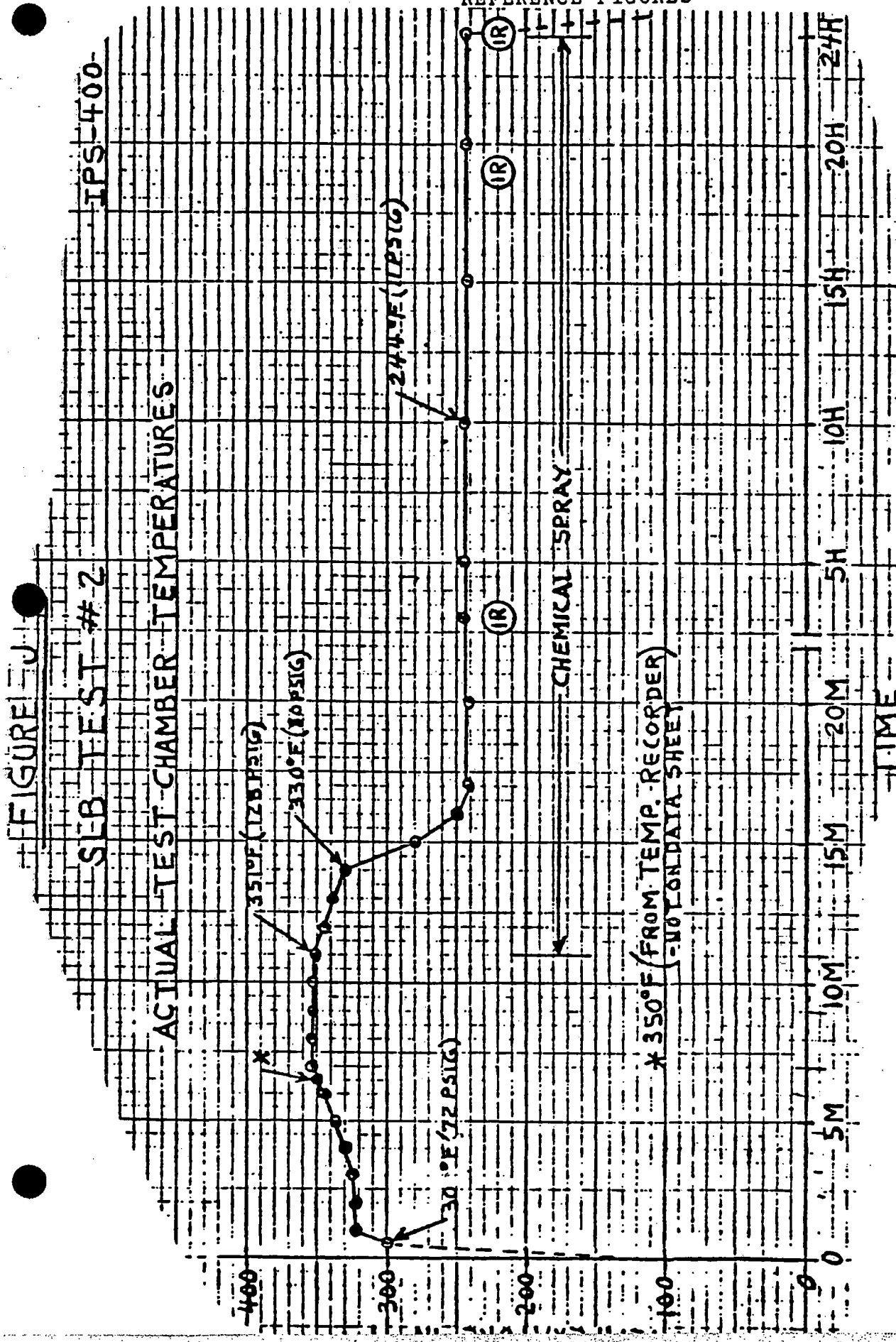
SALEM NUCLEAR GENERATING STATION
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FIGURE 17



BUCHANAN TERMINAL BLOCKS AND ASEA ENCLOSURES
LOCA TEST PROFILE
(EXCERPT FROM CONAX REPORT TPS-400)

FIGURE 18A

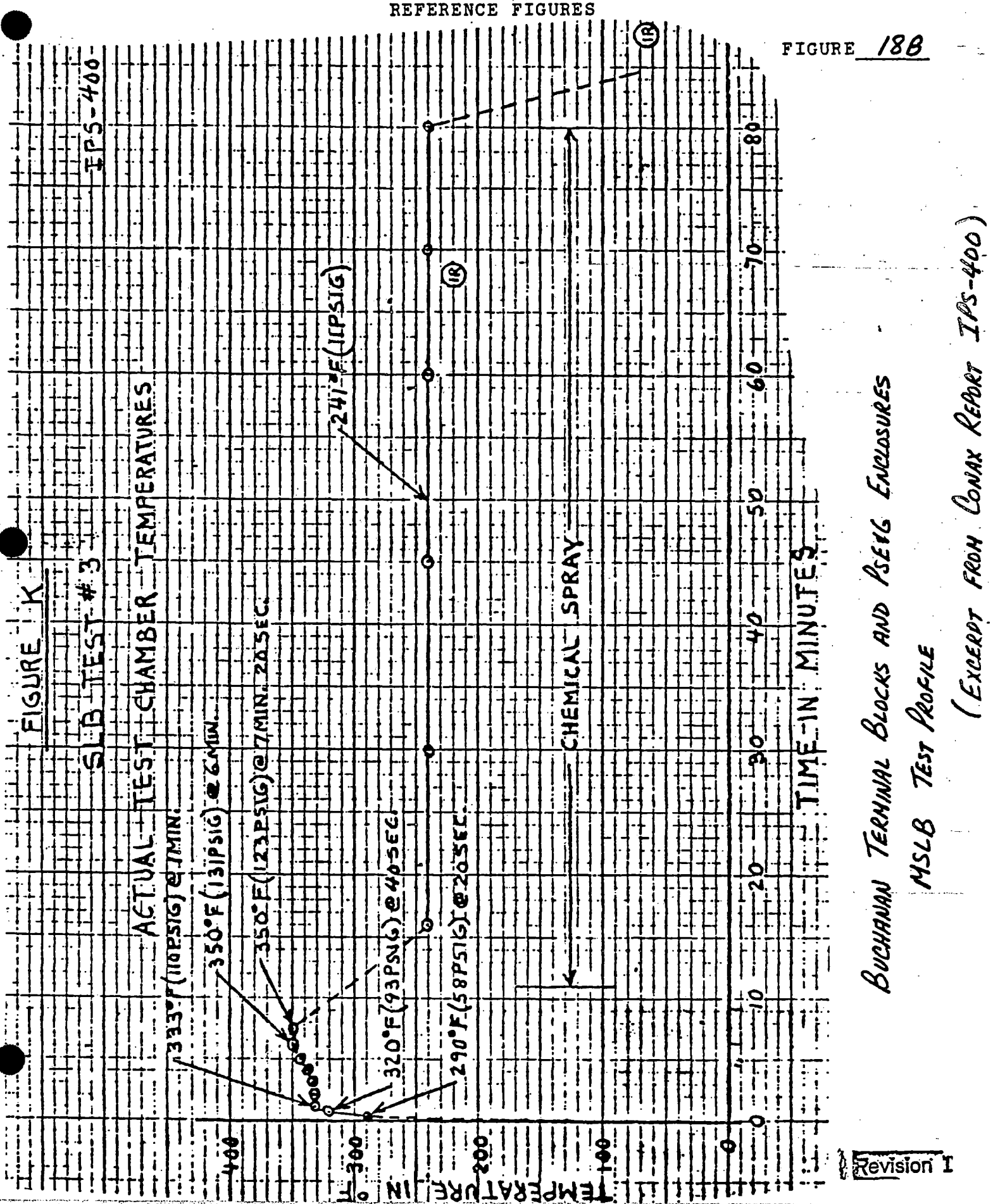


BUCHANAN TERMINAL BLOCKS AND PSEG ENCLOSURES
MSLB TEST PROFILE
(EXCERPT FROM CONAX REPORT IPS-400)

Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
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FIGURE 18B

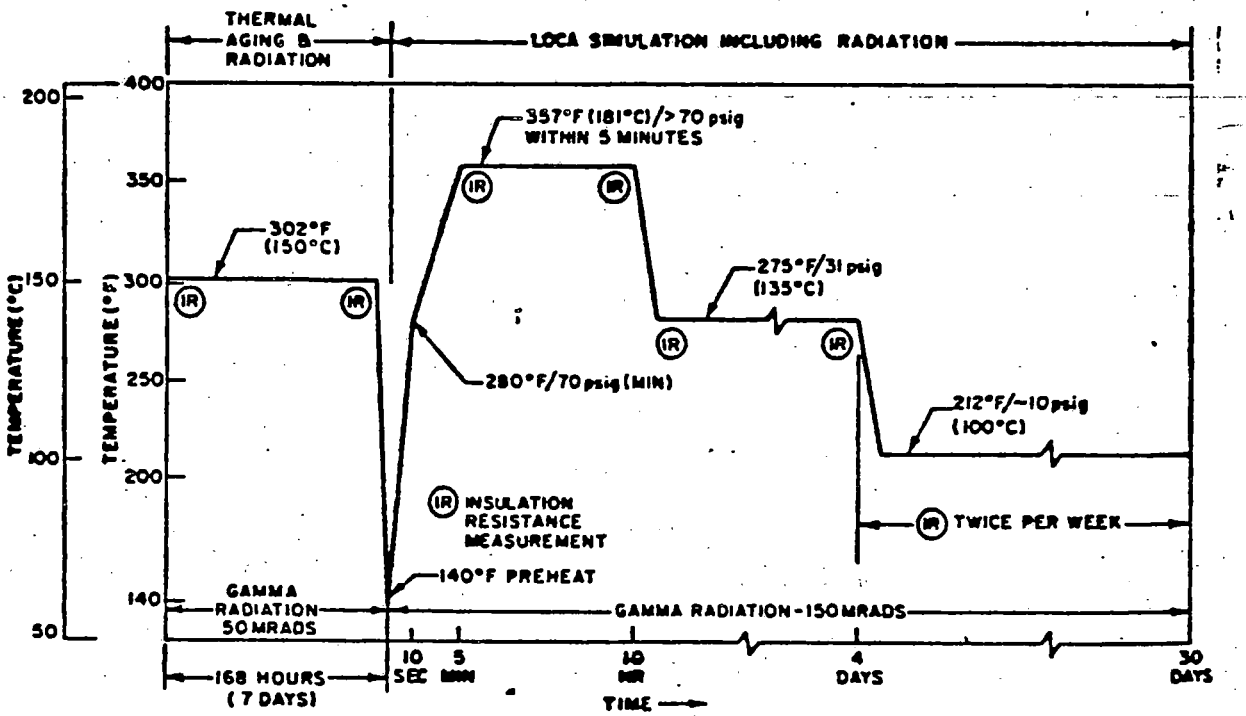


BUCHANAN TERMINAL BLOCKS AND PSEG ENCLOSURES
MSLB TEST PROFILE
(EXCERPT FROM CONAX REPORT IPS-400)

Revision 1

SALEM NUCLEAR GENERATING STATION
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REFERENCE FIGURES

FIGURE 19



Temperature/pressure profile for simulation of Loss-Of-Coolant Accident environment.

RAYCHEM CABLE SPLICES/TERMINATIONS

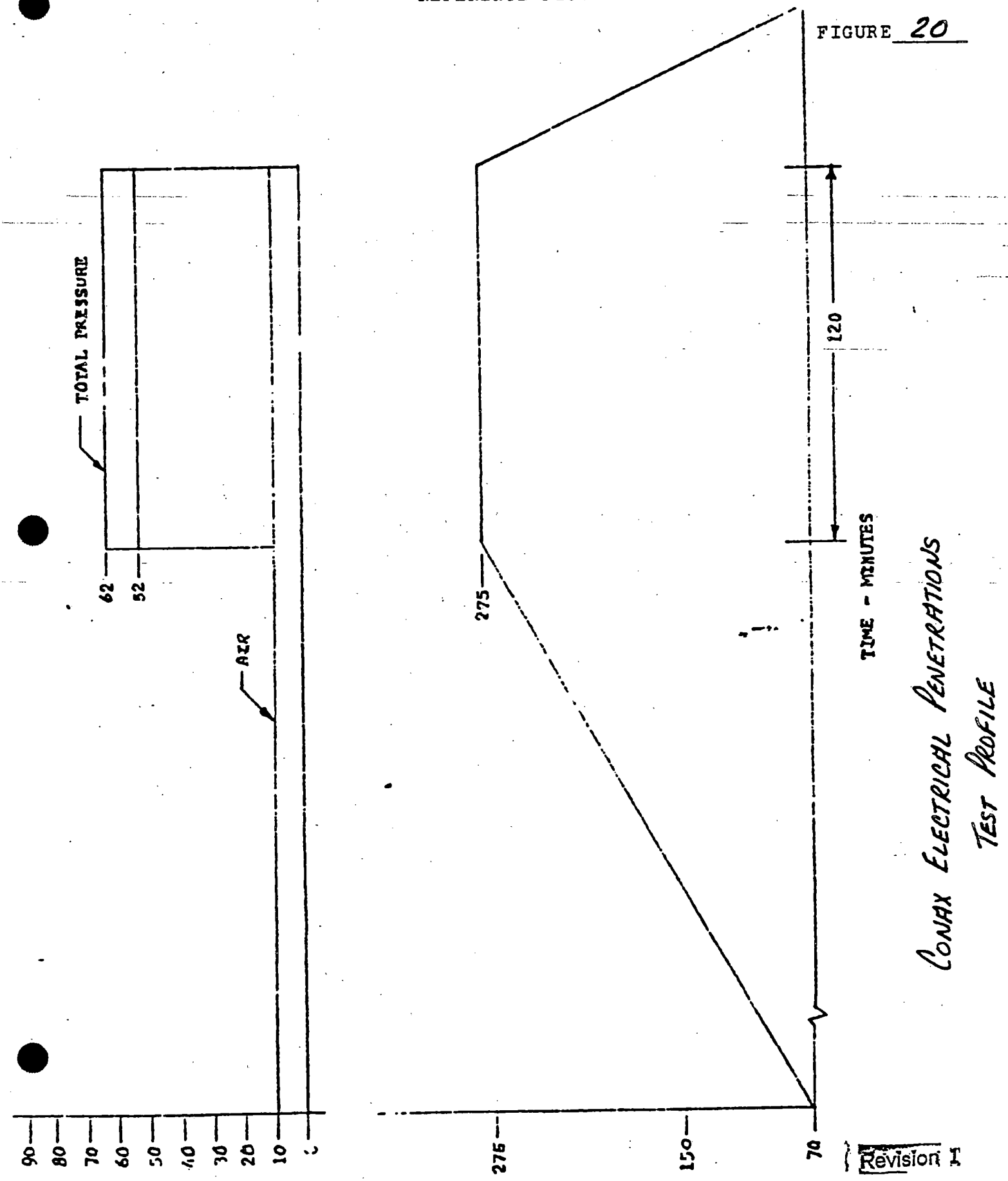
TEST PROFILE

(EXCERPT FROM FIRL REPORT F-C4033-3)

Revision 11

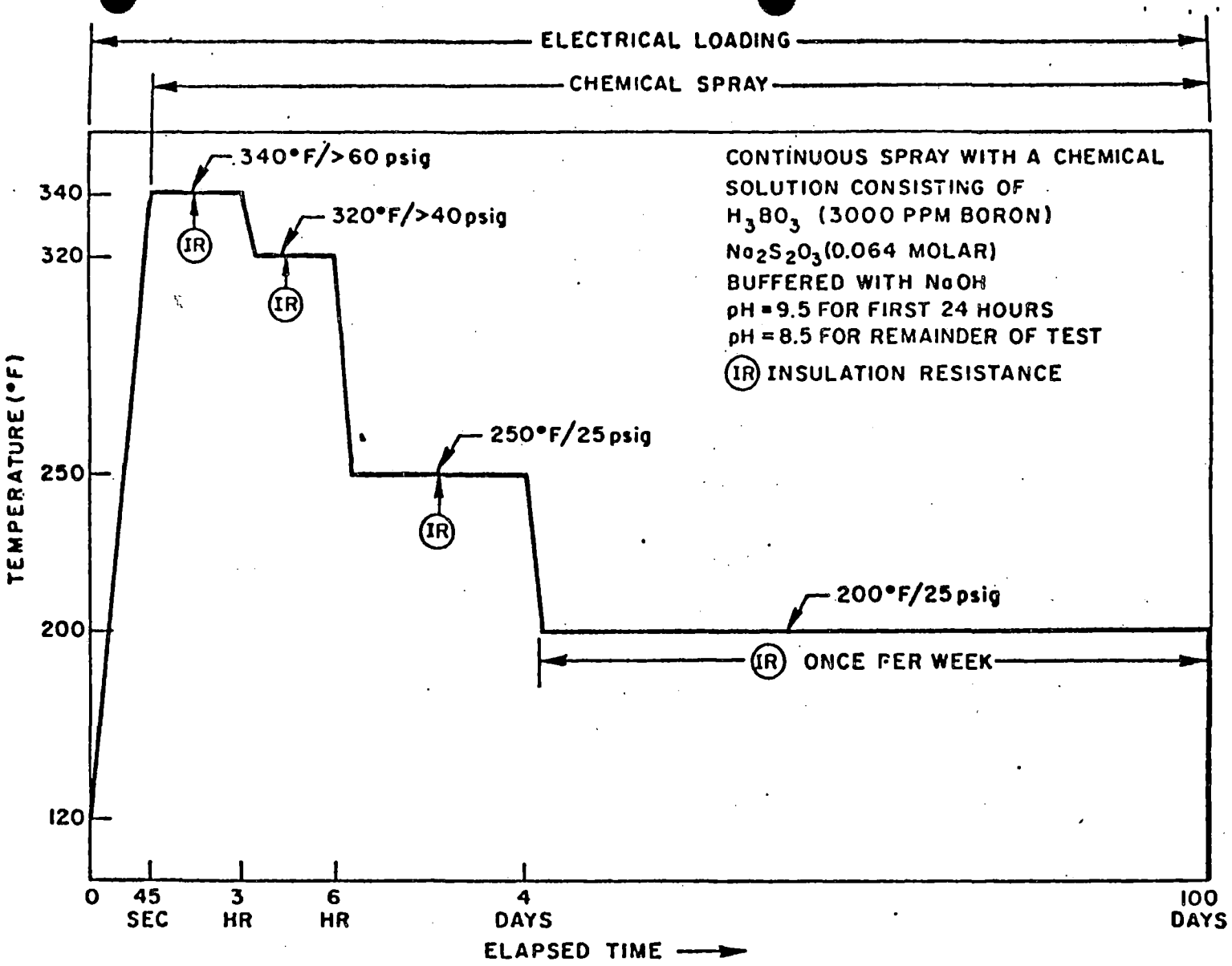
SALEM NUCLEAR GENERATING STATION
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REFERENCE FIGURES

FIGURE 20



CONAX ELECTRICAL PENETRATIONS
TEST PROFILE

Revision 1



Temperature/Pressure Profile for Simulation of Loss-of-Coolant Accident Environment

FIGURE 21A

Revision 1

AMERICAN INSULATED WIRE CABLE
TEST PROFILE
(ENCOOR CAMM FIRL REPORT F-C4199-2)

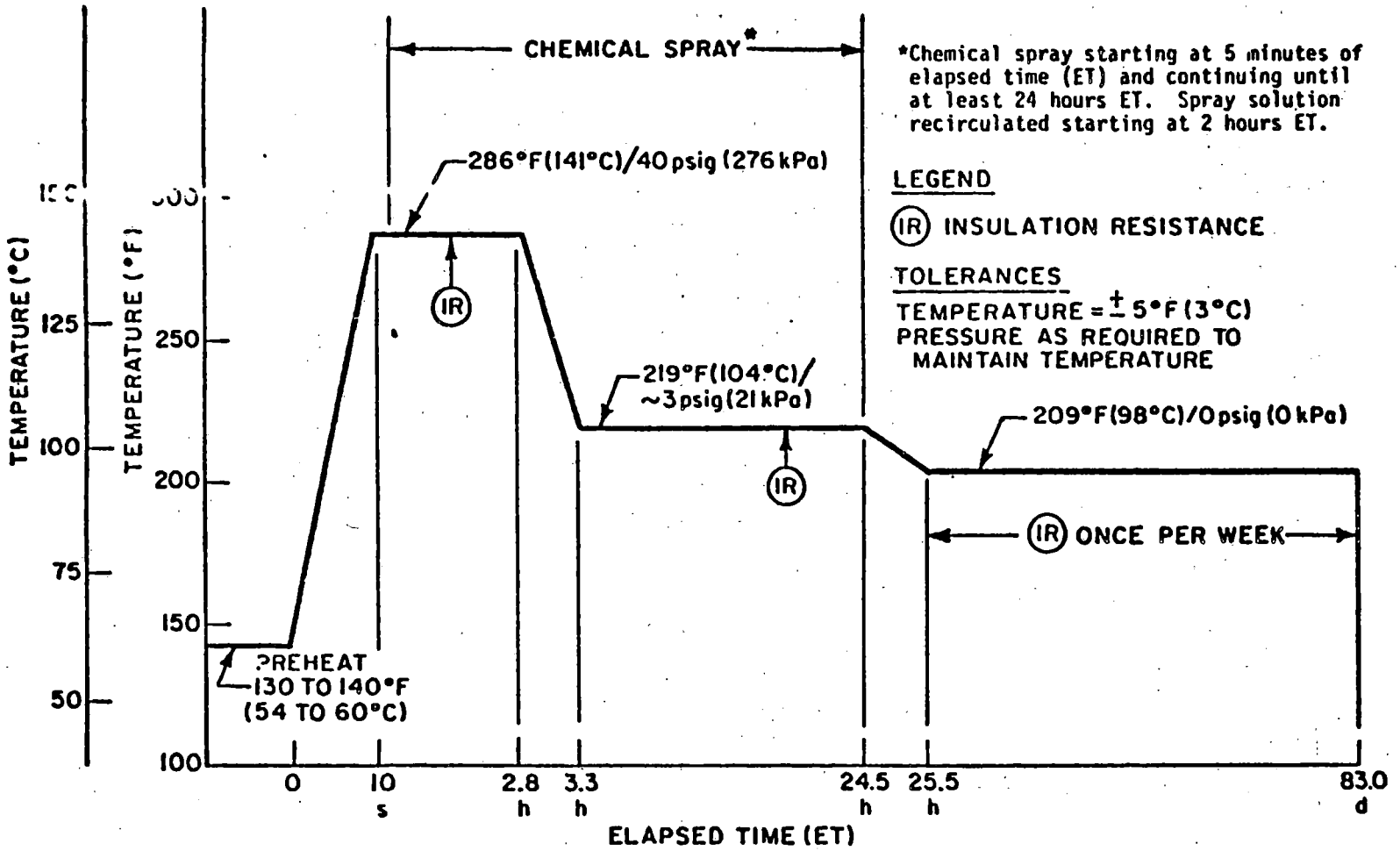


Figure 5. Specified Temperature/Pressure Profile for Steam/Chemical-Spray Exposure

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
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FIGURE 21B

Revision 1

AMERICAN INSULATED WIRE CABLE
TEST PROFILE
(EXCERPT FROM FIRL REPORT F-C5115)

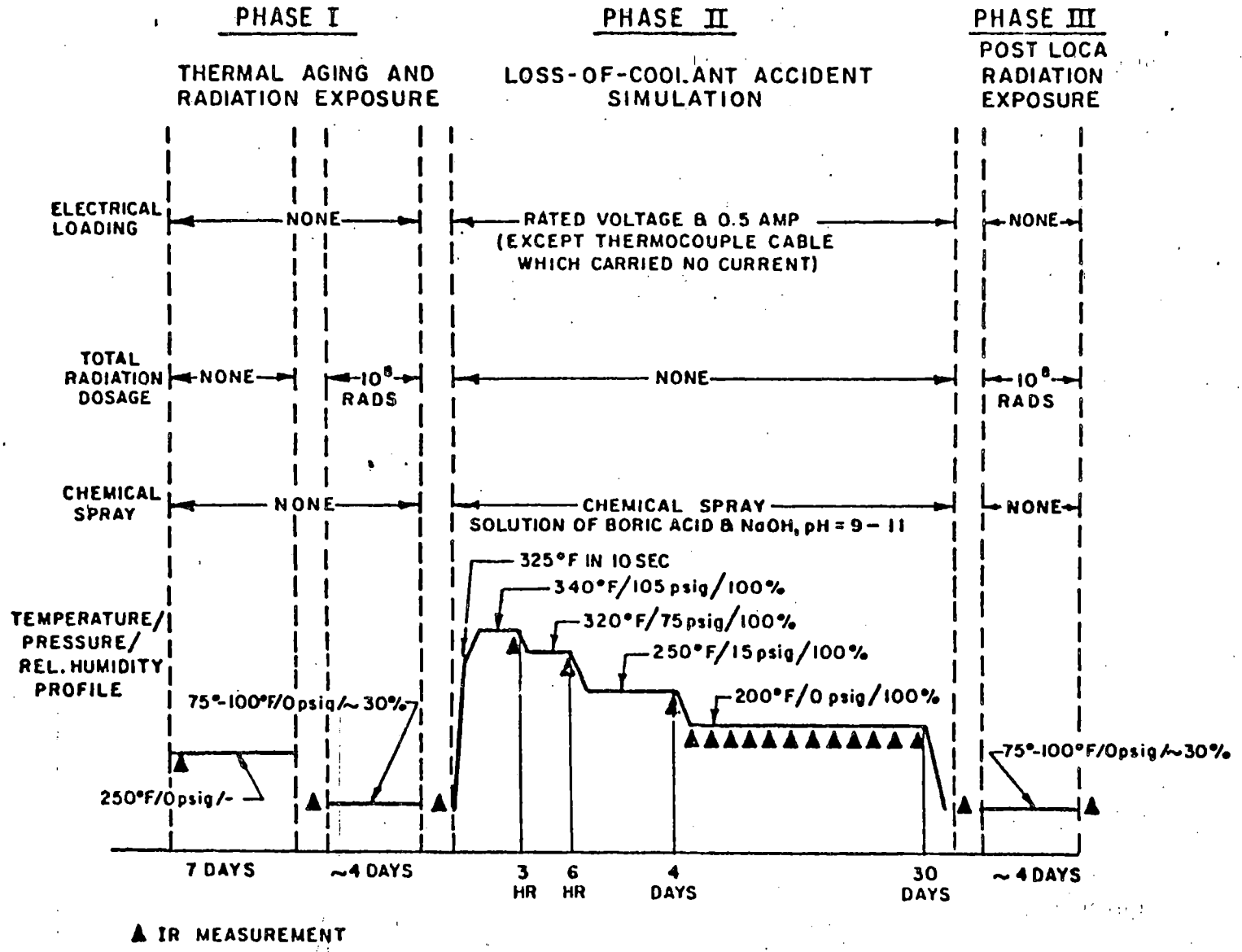


Figure 2. Profile of Test Phases

FIGURE 22

Revision 1

SAMUEL MOORE CABLE

TEST PROFILE

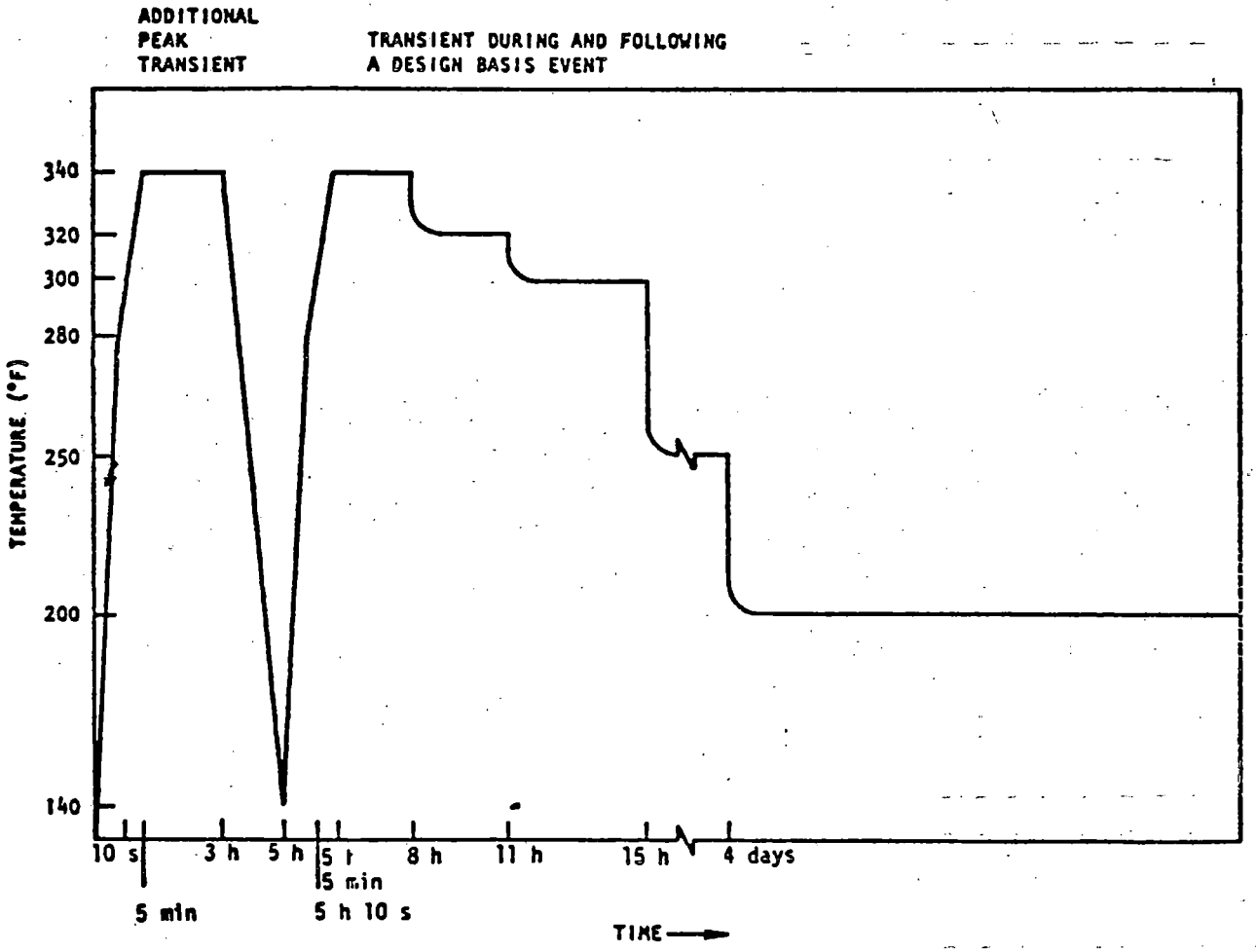
(EXCERPT FROM FIRL REPORT F-C3683)

SALEM NUCLEAR GENERATING STATION
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TABLE OF ENVIRONMENTAL QUALIFICATION FOR
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FIGURE 23

VIII. LOCA SIMULATION CYCLE

Test Chamber Temperature Profile for Environment Simulation (Combined PWR/BWR)



Cable sprayed with 0.28 molar H_3BO_3 solution adjusted to pH of 10.5 with NaOH for first 24 hours and with mineral free water thereafter through 30 days only.

BOSTON INSULATED WIRE CABLE

TEST PROFILE

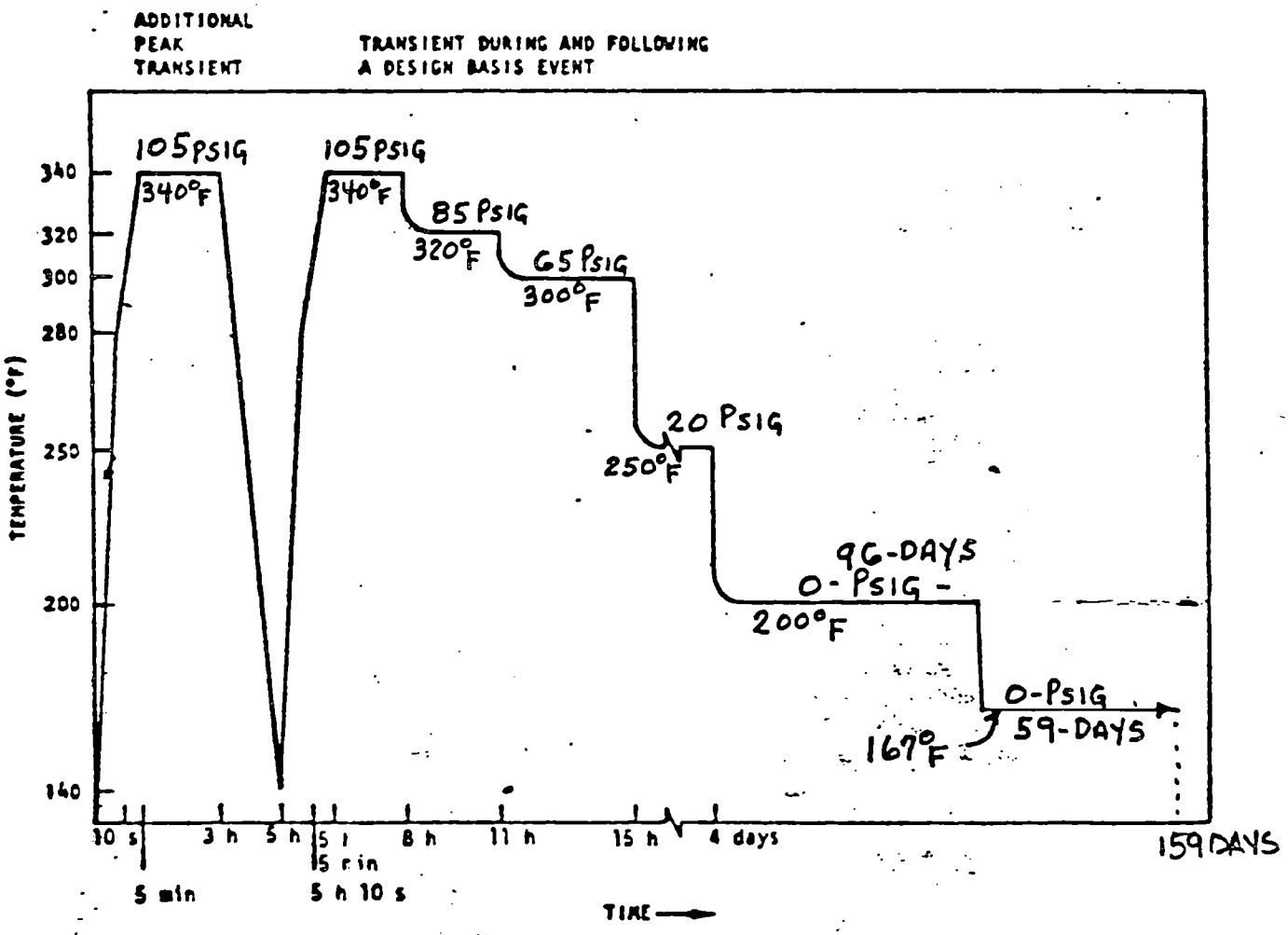
Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

FIGURE 23A

VIII. LOCA SIMULATION CYCLE

Test Chamber Temperature Profile for Environment Simulation (Combined PWR/BWR)



Cable sprayed with 0.28 molar H_3BO_3 solution adjusted to pH of 10.5 with NaOH for first 24 hours and with mineral free water thereafter through 30 days only.

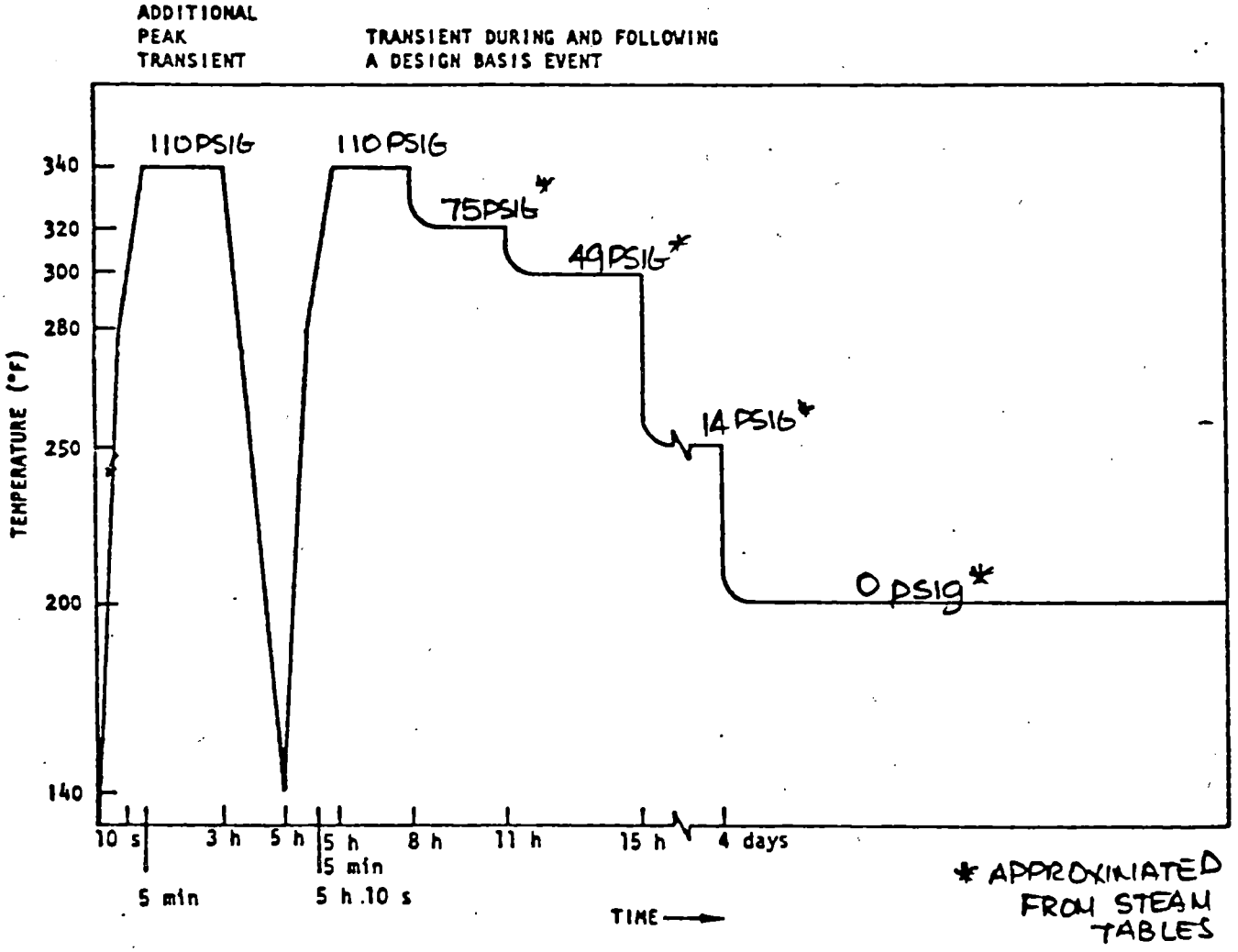
BOSTON INSULATED WIRE CABLE
TEST PROFILE

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
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FIGURE 23B

VIII. LOCA SIMULATION CYCLE

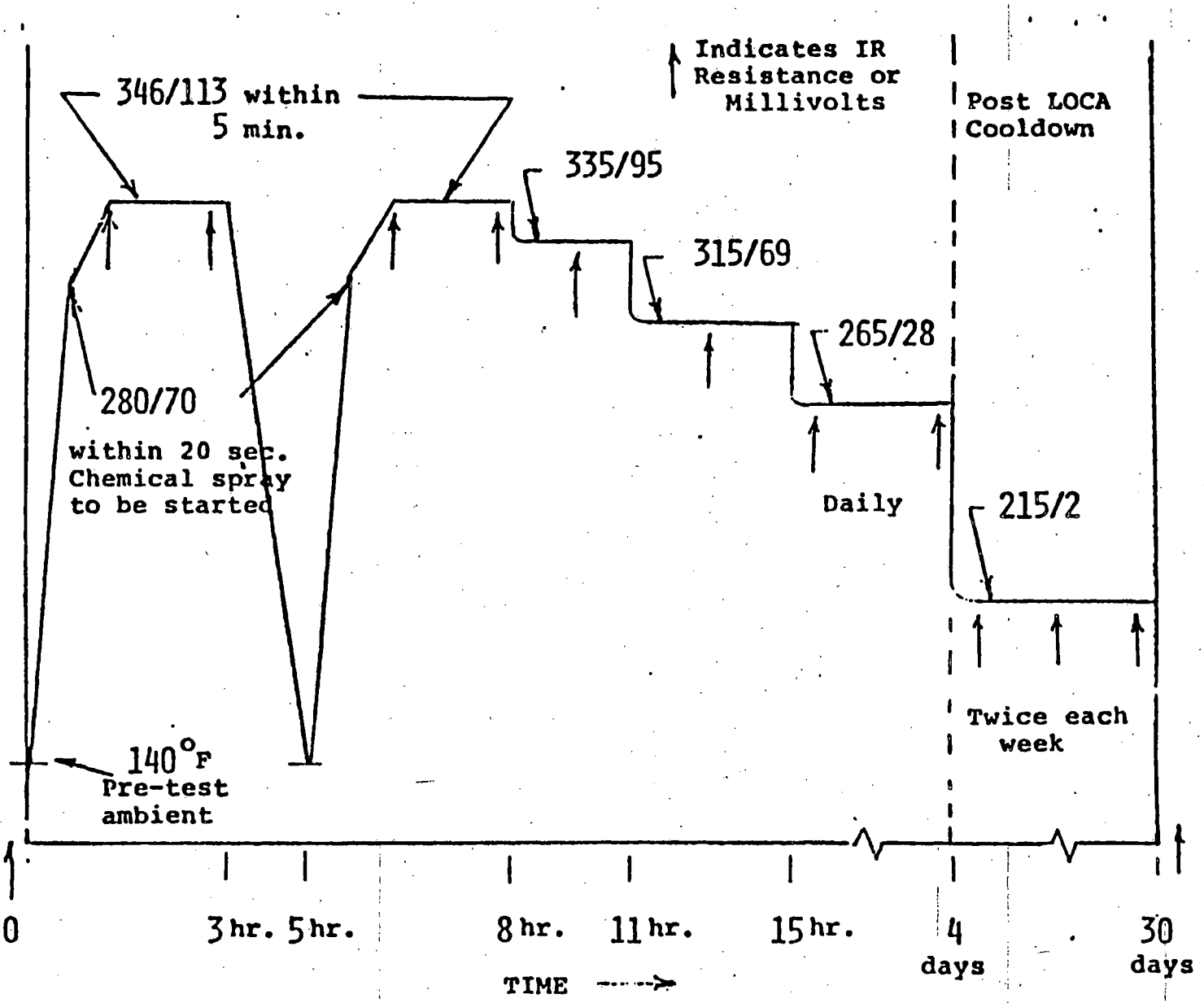
Test Chamber Temperature Profile for Environment Simulation (Combined PWR/BWR)



Cable sprayed with 0.28 molar H_3BO_3 solution adjusted to pH of 10.5 with NaOH for first 24 hours and with mineral free water thereafter through 30 days only.

BIW / XLPE INSULATION
TEST PROFILE

Actual LOCA Simulation Obtained During the Environmental Exposure Period



Temperature/pressure profile for simulation of loss-of-coolant accident (LOCA) design basis event (DBE) by steam/chemical-spray environmental exposure (after IEEE 323-1974 figures A1 of Appendix A)

TRIANGLE - PWC, INC. CABLE TEST PROFILE (EXCERPT FROM TOMEDIX REPORT)

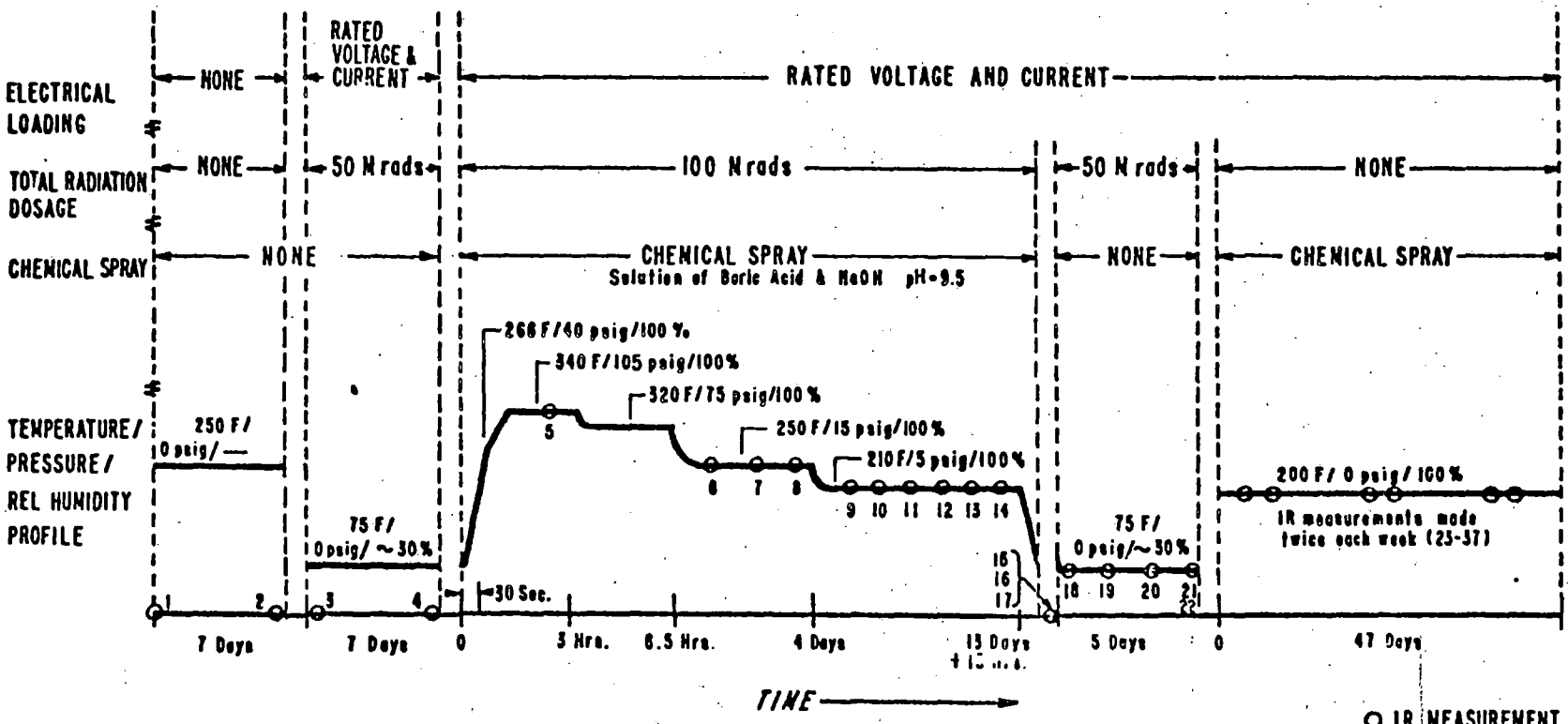
SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

FIGURE 24

Revision 1

SALEM NUCLEAR GENERATING STATION
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FIGURE 25



ANACONDA CABLE

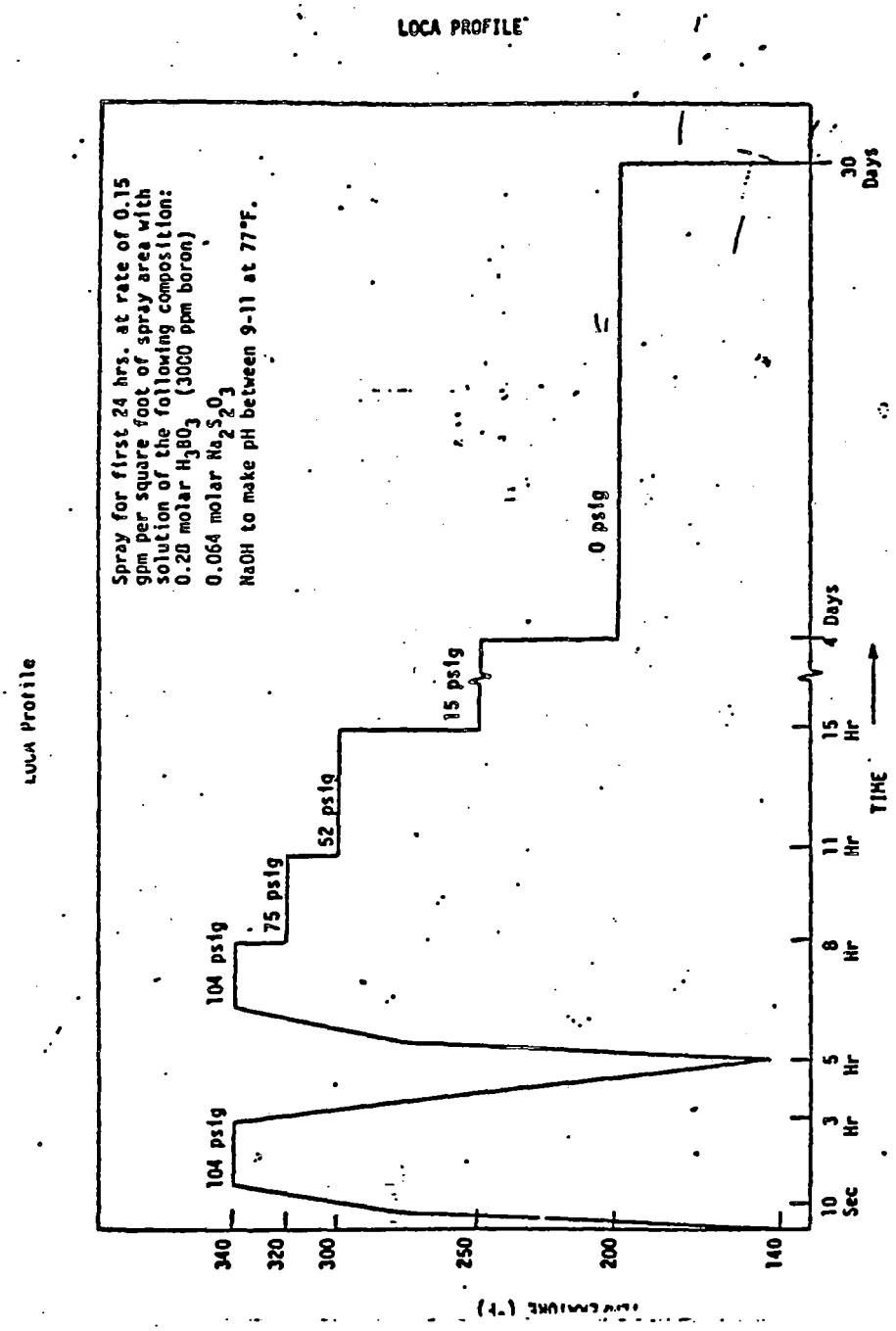
TEST PROFILE

EXCERPT FROM FIRL TEST F-C3341

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SALEM NUCLEAR GENERATING STATION
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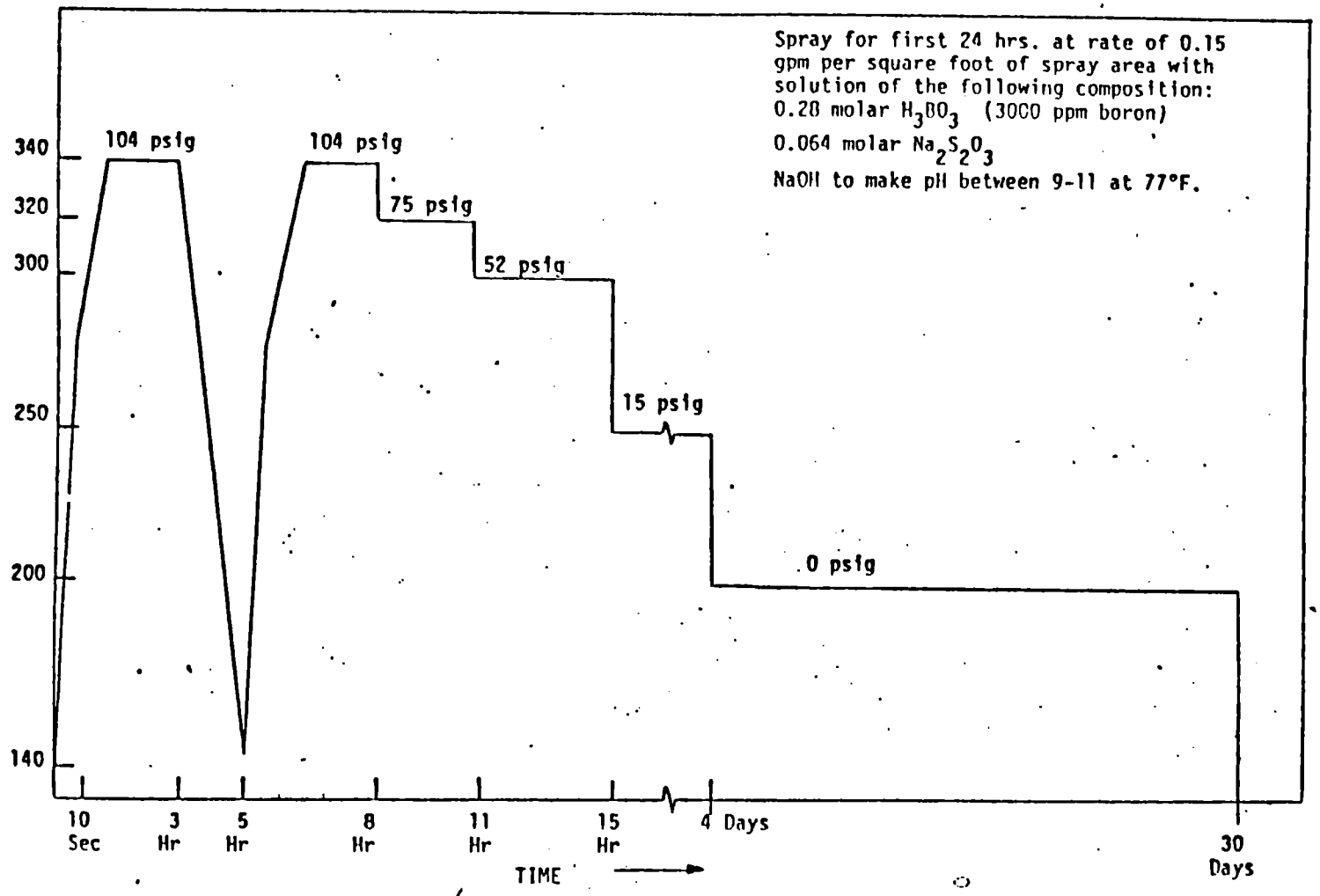
FIGURE 26



ROCKBESTOS CABLE
TEST PROFILE

Revision 1

LOCA Profile



ROCKBESTOS / SILICONE CABLE TEST PROFILE

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
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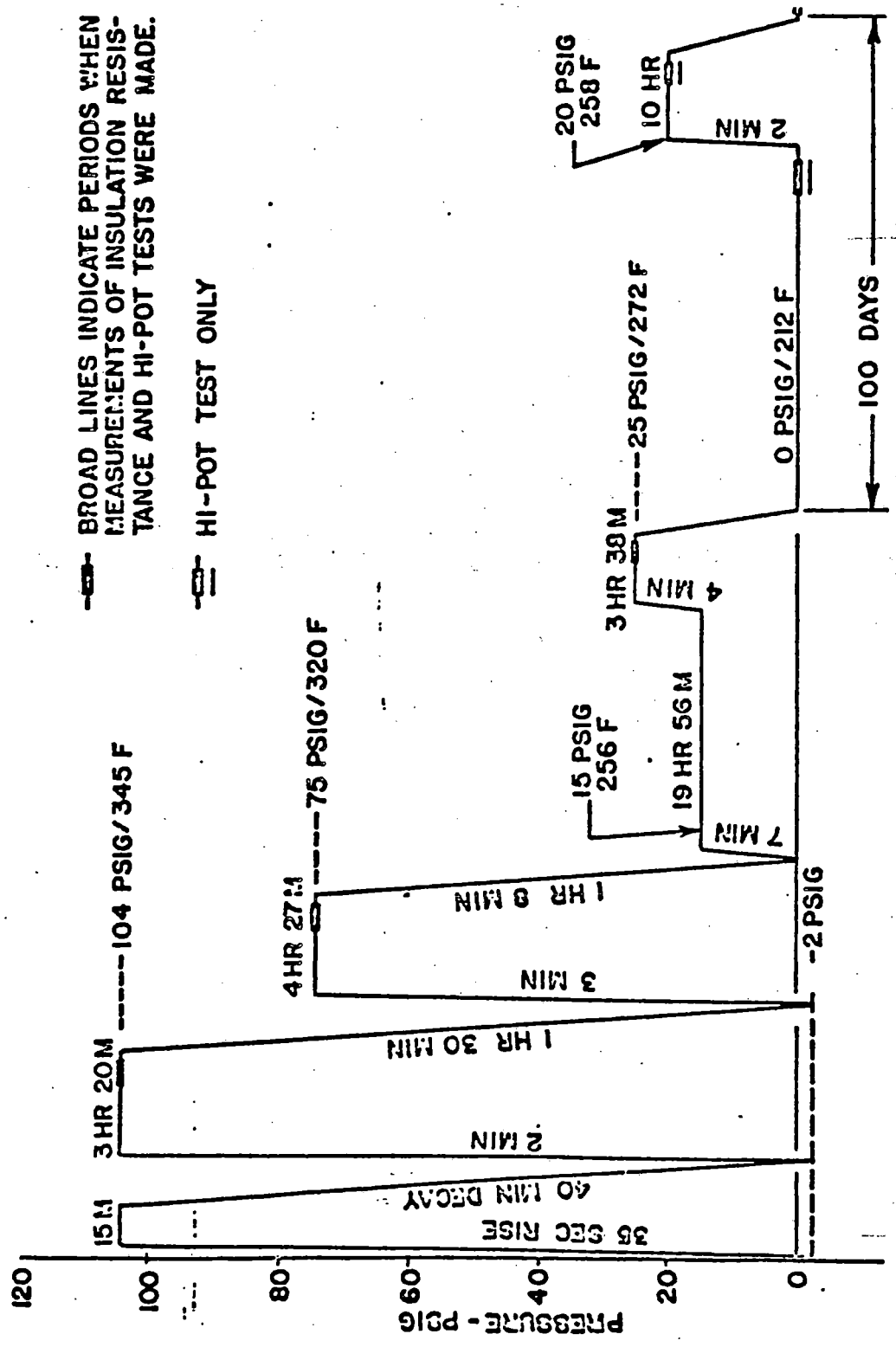
LOCA PROFILE

FIGURE 26A

Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT
REFERENCE FIGURES

FIGURE 27A

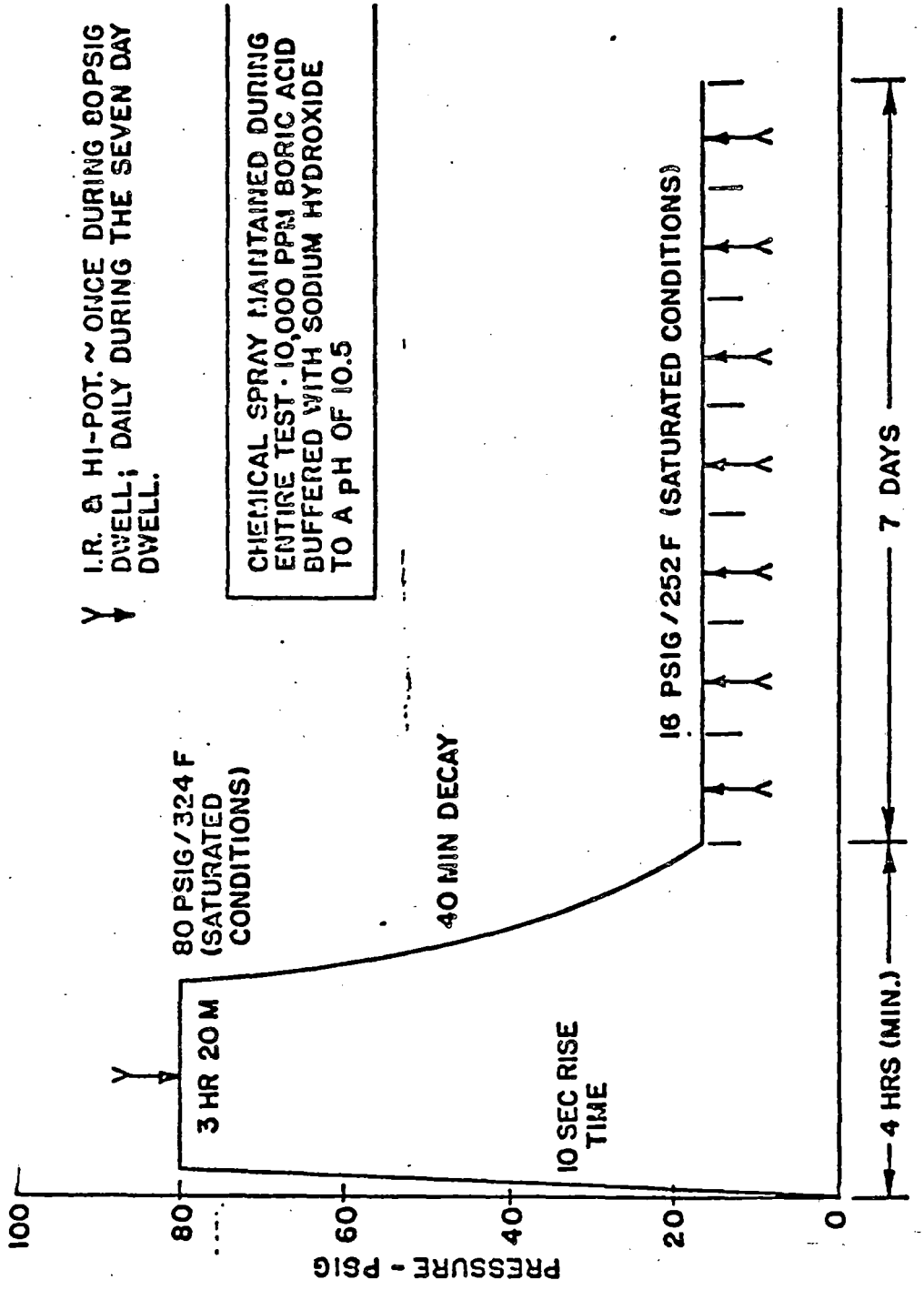


OKONITE CABLE
TEST PROFILE

Revision 1

SALEM NUCLEAR GENERATING STATION
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REFERENCE FIGURES

FIGURE 27B



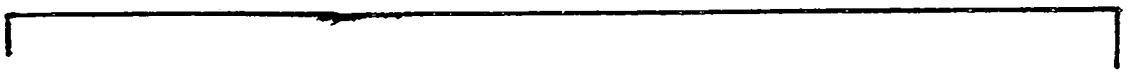
OKONITE CABLE
TEST PROFILE

Revision 1

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
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REFERENCE FIGURES

A,B6

FIGURE 28A



BARTON 351 PRESSURE SENSOR BELLOWS
TEST PROFILE
(EXCERPT FROM WCAP-9157)



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SALEM NUCLEAR GENERATING STATION
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REFERENCE FIGURES

A,B,C
FIGURE 28B

BARTON 351 PRESSURE SENSOR BELLOWS

TEST RESULTS FOR ENVIRONMENTAL PROFILE

(EYNEDOT FORM WPAD-0167)

Revision I

SALEM NUCLEAR GENERATING STATION
UNITS 1 AND 2
TABLE OF ENVIRONMENTAL QUALIFICATION FOR
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REFERENCE FIGURES

A, B, C

FIGURE 28C

TEMPERATURE (°F)

BARTON 351 PRESSURE SENSOR BELLOWS
TEST RESULTS
(EXCERPT FROM WCAP-9157)

Revision 1

VII. JUSTIFICATIONS FOR CONTINUED OPERATION AND CORRECTIVE ACTIONS TO BE TAKEN FOR NOTED DEFICIENCIES

VII. JUSTIFICATIONS FOR CONTINUED OPERATION AND CORRECTIVE ACTION TO BE TAKEN FOR NOTED DEFICIENCIES

This section compiles current information with that previously submitted.

Justifications are classified according to significance to plant safety. Table 1 provides definitions for the classifications.

Table 2 of this Section is a list which identifies the equipment involved in each item according to the definitions provided in Table 1. It also provides a cross-reference to the justification basis provided later in the Section for each of these items.

Some of the items considered open in the original version of this report have been corrected. These cases are summarized below and the justifications originally provided for these cases have been modified to indicate that they are no longer applicable.

Basis 2 - Barton Transmitters
Basis 4 - PORV Position Indication
Basis 9 - Main Steam Warmup Valve Control
Basis 13 - Ex-core Neutron Detectors

Table 3 has been provided as a summary description of the current status of Group I items.

In all cases requiring procedural modification, the approved procedure will be in effect at the plant prior to exceeding 5% power level (Unit No. 2). The Unit No. 1 procedures will be in effect by December 15, 1980. This will include operator training requirements.

Where it is indicated that equipment will be replaced, it will be installed as it becomes available on an accelerated schedule (prior to June 30, 1982) as plant operating conditions allow. Replacement equipment will meet the applicable requirements of NUREG-0588.

TABLE 1

Classification of Significance

Definitions

GROUP I - Items in this group include:

.1 Those whose failure could directly affect equipment required to operate during design basis accident conditions. This includes both short and long-term requirements.

.2 Equipment used by the operator to determine the type of event and the required recovery actions, or used to change the mode of equipment operation during the event.

Group II - Items in this group are:

.1 Those associated with auxiliary equipment not required to perform a safety function and not requiring environmental qualification.

.2 Those cited in existing plant procedures to be used to verify operation of the safety systems. Operator action, however, is independent of the indication.

.3 Those which are affected only by non-design-basis-event line breaks outside of the containment. In these cases, the operation of accident-mitigating equipment is not required.

.4 Those lacking complete aging information and consequently they lack an established qualified life. The aging information is being developed and is expected to be available by the end of 1980.

TABLE 2

Item Classification List.

NOTE: In those cases where the equipment is not identical in both units, the unit applicability is designated in ( ).

SAFETY FUNCTION	DEVICES*	TYPE
Group I.1		
I.1.A. Main Steam Atmospheric Relief Valves Control (Basis 6)	E/P (MS10 Valves)	Fischer-Governor 546
	PA8593 PA8596 PA8594 PA8595	Fischer-Porter
I.1.B. Main Steam Isolation 1. Solenoids (Bases 8A, 8B, 8C)	SV0269] SV0279] SV0278] SV0288]	(#2) ASCO HT8321A2 (#1) ASCO FT8321A2 *(MS7 Valves)
	SV0587] SV0581] SV0585] SV0583]	(#2) ASCO HV2023021F (#1) ASCO FT8321A2 (MS18 Valves)
	SV0274] SV0275] SV0280] SV0281] SV0270] SV0271] SV0284] SV0285]	ASCO FT8321A4 (MS169 and MS171 Valves Used For MS 167 Valve Operation)
2. P.A.T.'s (Basis 9)	P.A.T. (#2 MS18 Valves)	Leeds & Northrop 10973-3
(NO LONGER APPLICABLE)		
3. Control Switches (Basis 11)	Select Switch (MS167 Valves)	CMC 910PGD533
4. Limit Switches (Basis 10A)	L.Sw. (MS7 Valves)	Masoneilan 496-2

*Numbers in ( ) indicate the particular valve controlled by the identified solenoid valve.

SAFETY FUNCTION	DEVICES	TYPE
I.1.C. RHR Control 1. E/P Controls (Basis 15)	E/P (RH20) E/P (RH18 Valves)	Fischer-Governor 546
2. Flow Switches (Basis 16)	FA2569 FA2481	Barton 289A
I.1.D. Containment Pressure (Basis 22)	PA2344 PA2345 PA2346 PA2568	Barton 332/351
I.1.E Containment Isolation 1. MOV's and Solenoids (Basis 28)	CC187 CC190 CV284	Limitorque SMB
	SV0491 (CV3) SV0492 (CV4) SV0493 (CV5) SV0427 (SJ123)	ASCO NP831654E
	SV0518 (SS110) SV0519 (SS107) SV0520 (SS104) SV0521 (SS103) SV0399 (WL98) SV0401 (WL96) SV0397 (WL12)	ASCO 206-381-3F
	SV0394 (#2) (WL16) (#1)	ASCO 206-381-3F ASCO 206-381-6F

SAFETY FUNCTION	DEVICES	TYPE
(Basis 28)	Panel 241 Panel 245 Panel 238	PSE&G Design Vertical Bay
2. Limit Switches (Inside Cont.) (Basis 29)	L.Sw.CV3 L.Sw.CV4 L.Sw.CV5 L.Sw.SJ123 L.Sw.WL98	NAMCO EA 180-11302 (#1)NAMCO EA180-14302 & 15302 (#2)NAMCO EA180-11302
3. Limit Switches (Outside Cont.) (Basis 18A)	L.Sw.WL17 L.Sw.SS94 Valves L.Sw.GB4 Valves L.Sw.CA330 Valves	Masoneilan 496-2
	L.Sw.CC215 L.Sw.CC113 L.Sw.CV7 L.Sw.SJ53 L.Sw.SJ60 L.Sw.NT32 L.Sw.SS64 L.Sw.SS49 L.Sw.SS33 L.Sw.SS27 L.Sw.WL108 L.Sw.WL13 L.Sw.WL97 L.Sw.WL99 L.Sw.WR80 L.Sw.NT25 L.Sw.VC8 L.Sw.VC10 L.Sw.VC12 L.Sw.VC14	NAMCO D-2400X

SAFETY FUNCTION		DEVICES		TYPE
I.1.F.	Boron Injection Tank Recirc. Valves (Basis 26)	L.Sw.SJ78 (#2) L.Sw.SJ79 L.Sw.SJ108(#1)		NAMCO EA-170-11302 D2400X
I.1.G.	Fan Cooler Control 1. Solenoid Valves (Basis 19)	SV1120] SV1121] SV1122] SV1123] SV1124]	(SW65 Valves)	ASCO X8342B22
		SV1115] SV1116] SV1117] SV1118] SV1119] SV0621] SV0624] SV0627] SV0630] SV0633]	(SW57 Valves) (SW223 Valves)	
	2. Flow Controllers (Basis 20)	FA3160 FA3165 FA3169 FA3172 FA3176	C-1,2,3 C-1,2,3 C-1,2,3 C-1,2,3 C-1,2,3	Fischer-Porter 53EG3000
I.1.H.	Excore Neutron Detectors (Basis 13) (NO LONGER APPLICABLE)	Excore Neutron Detectors		Westinghouse WC-23686
I.1.J.	East Motor Control Centers			General Electric 7700 Line
Group I.2				
1.2.A.	Hydrogen Analyzers (Basis 30)	XA-8650 XA-8651 XA-8651		Bacharach
1.2.B.	Containment Temperature (Basis 32)	TA4312 TA4313 TA4314		Tem.Tex.Co. 304-250-T-G-12-SA2-1H CC-TC

SAFETY FUNCTION		DEVICES	TYPE
	(Basis 32)	TA4315 TA4316 TA4318 TA4348 TA4319 TA4320 TA4321	
I.2.C.	Incore Thermcouples (Basis 33)		Westinghouse SPIN #RCRIVI (583F014)
I.2.D.	Containment Humidity Detectors (Basis 37)	TA6356-Z TA6357-Z TA6358-Z TA6359-Z TA6360-Z	Foxboro 2711AG
Group II.1			
II.1.A.	PORV Control (Basis 3)	2PR47 2PR48	Marotta MV225C
II.1.B.	Fan Motors... Nozzle Support Vent Reactor Shield Vent Control Rod Drive (Basis 36)		Westinghouse Model TBFC Model TBAM Model 77C27257
II.1.C	Accumulator Instruments (Basis 24)		
		LA228,229 LA233,234 LA237,238 LA241,242	Barton 384
		PA230,231 PA235,236 PA239,240 PA243,244	Fisher-Porter 50 EP1031
Group II.2			
II.2.A.	Pressurizer Power Operated Relief Valve Indication (Basis 4)	L.Sw.PR1 L.Sw.PR2 (NO LONGER APPLICABLE)	NAMCO EA-180 11302

SAFETY FUNCTION		DEVICES	TYPE
II.2.B.	Steam Generator Level and Auxiliary Feedwater Flow		
	1. Wide-Range Level (Basis 5)	LA0009 LA0015 LA0021 LA0027	Barton 384
	2. Instrument Panels (Basis 14)	Panel 448-A Panel 448-B Panel 448-C Panel 448-D	NEMA 12 Instrument Enclosure PSE&G Design
	3. Operator Indication Feedwater Flow (Basis 12)	FA1087 FA1091 FA1095 FA1097	Fischer-Porter
		FA3969 FA3970 FA3971 FA3972	Fischer-Porter 50ES3212
II.2.C.	Main Steam Valve Indication (Basis 10B)	L.Sw.MS167 Valves	NAMCO D2400X-2
		L.Sw.MS10 Valves L.Sw.MS18 Valves	Masoneilan 496-2
II.2 D.	Limit Switches (Inside Cont.) (Basis 18B)	L.Sw.SS110 L.Sw.SS107 L.Sw.SS104 L.Sw.SS103 L.Sw.PR17	NAMCO D-2400X
		L.Sw.WL16 L.Sw.VC2 L.Sw.VC3 L.Sw.VC6	Masoneilan 496-2
		L.Sw.PR17	Micoswitch LSQ051

SAFETY FUNCTION		DEVICES	TYPE
II.2.E.	ECCS Equipment		
	1. B.I.T., S.I. Pumps Press (Basis 21)	PT0942 PA0227 PA7461	Fischer-Porter
	2. Cont. Spray Additive Tank Level (Basis 23)	LA0217	Barton 332/352
	3. Charging Flow To B.I.T., S.I. Pump Discharge (Basis 27)	FA7462 FA7464 FA0226	Fischer-Porter
	RHR Pump Disch. (Basis 27)	FA1422 FA1423	
	RHR Pump Disch. (Basis 27)	FA1416 FA1419 FA0432	Fischer-Porter
	C.S. Additive Tank (Basis 27)	FA0218	
	4. Containment Sump Level (Basis 31)	LA0223 LA0224	GEMS LS-800
II.2.F.	Rod Position Indication (Basis 38)		Westinghouse
II.2.G.	Containment Radiation (Basis 34 and 35)	Radiation(#2) Detector High Range(#1)	Victoreen 877 Trapelo TA-63A
Group II.3			
II.3.A.	Containment Isolation Valves (Outside Cont.) (Basis 17)	SV0114 (SJ53) (#2) SV0575 (SJ60) (#2) SV0425 (CV7) (#1) SV1078 (VC8) (#1) SV1080 (VC10) (#1) SV1082	ASCO LB831654

SAFETY FUNCTION	DEVICES	TYPE
(Basis 17)	(VC12)	
	SV1084 (#1)	
	(VC14)	
	SV0575 (#1)	ASCO FT831654
	(SJ60)	
	SV0668	
	(CC215)	
	SV0164 (#2)	
	(CC113)	
	SV0425 (#1)	
	(CV7)	
	SV0249	ASCO 831614
	(NT32)	
	SV0510]	ASCO FT8320A101
	SV0511] (SS94	
	SV0512] Valves)	
	SV0513]	
	SV0558] (CA330	ASCO X8342B22
	SV0559] Valves)	
	SV0164 (#1)	ASCO 831654
	(CC113)	
	SV0706]	
	SV0707] (GB4	ASCO FT8321A2
	SV0708] Valves)	
	SV0709]	
	SV0396 (#1)	
	(WL13)	
	SV0398	
	(WL99)	
	SV0402 (#1)	
	(WL108)	
	SV0507 (#1)	
	(WR80)	
	SV0395 (#1)	
	(WL17)	
	SV0396 (#2)	ASCO LB8300B64RU
	(WL13)	
	SV0402 (#2)	ASCO HV202-302-IF
	(WL108)	
	SV0507 (#2)	

SAFETY FUNCTION	DEVICES	TYPE
(Basis 17)	(WR80) SV0395 (#2) (WL17)	
	SV0514	ASCO LBX83146
	(SS64) SV0515 (SS49) SV0516 (SS33) SV0517 (SS27) SV0505 (#1) (PR18)	
	SV0505 (#2) (PR18)	ASCO LB8314B6
	SV0400 (WL97) SV0423 (NT25)	ASCO FT8314B6
	SV805 (VC4)	ASCO HT834475
	SV0928 (VC5) SV0804 (#2) (VC1) SV1025 (#2) (VC5)	ASCO HT8344A75
	SV804 (#1) (VC1)	ASCO HTX834477
	SV1024 (VC4)	ASCO HT834477

SAFETY FUNCTION		DEVICES	TYPE
	(Basis 17)	SV0123 (#2) (VC1)	ASCO HT8344A77
		SV0123 (#1) (VC1)	ASCO HTX8344A75
		SV1025 (#1) (VC5)	ASCO HTX834475
		SV1078 (#2) (VC8)	ASCO X8342B3
		SV1080 (#2) (VC10)	
		SV1082 (#2) (VC12)	
		SV1084 (#2) (VC14)	
II.3.B.	Limit Switches (Outside Cont.) (Basis 18A)	L.Sw.VC1	Masoneilan 496-2
		L.Sw.VC4	
		L.Sw.VC5	
		L.Sw.PR18	Microswitch LSQ051
II.3.C.	BIT Solenoid Valves (Basis 25)	SV0117 (SJ78)	ASCO FT831654
		SV0118 (SJ79)	
		SV0119 (SJ108)	
Group II.4			
II.4.A.	Pressurizer Level (Basis 2)	LA0086	Barton
		LA0087	
		LA0088	
	Steam Generator Narrow Range Level (Basis 2)	LA0005	
		LA0006	
		LA0007	
		LA0011	
	Wide Range Pressure (Basis 2)	LA0012	
		LA0013	
		LA0017	

SAFETY FUNCTION		DEVICES	TYPE
	(NO LONGER APPLI-CABLE)	LA0018	
		LA0019	
		LA0023	
		LA0024	
		LA0025	
		PA0039	Barton
		PA8088	
II.4.B.	(Basis 1)	Fan Cooler Motors Westinghouse (#1) SPIN #PSE-RCADCF (#2) SPIN #PSE-RCADCF	
II.4.C.	ECCS/Containment Isolation Motor Operated Valves (Basis 1)	RH26	Limitorque SMB
		RH29	
		RH1	
		RH2	
		RH19	
		CS36	
		CC16	
		SJ113	
		SJ30	
		SJ40	
		SJ134	
		SJ135	
		RH4	
		SJ44	
		SJ49	
		PR6	
		PR7	
		SJ2	
		SJ4	
		SJ5	
		SJ12	
		SJ13	
		SJ45	
		CV68	
		CV69	
		CV139	
		CV140	
		CV175	
		CV40	
		CV41	
II.4.D.	Auxiliary Fdwtr. Flow (Basis 1)	FA1087	Fischer-Porter
		FA1091	
		FA1095	
		FA1097	

SAFETY FUNCTION		DEVICES	TYPE
II.4.E.	Steam Generator Steam Flow (Basis 1)	FA0101 FA0687 FA0104 FA0690 FA0102 FA0688 FA0103 FA0689	Rosemount 1153AHA
II.4.F.	Steam Generator Steam Pressure (Basis 1)	PA0667 PA0671 PA0734 PA0670 PA0674 PA0736 PA0668 PA0672 PA0738 PA0669 PA0673 PA0740	Rosemount 1153AGA
	Pressurizer Pressure (Basis 1)	PA0082 PA0083 PA0084 PA0097	
II.4.G.	(Basis 1)	Hydrogen Recombiners	Westinghouse/ Sturtevant
II.4.H.	(Basis 1)	Terminal Blocks	Buchanan 2B112N
II.4.J.	(Basis 1)	Cables	American Insulated Wire Samuel Moore Boston Insulated Wire Triangle-PWC, Inc. Anaconda Rockbestos Okonite
II.4.K.	Control Centers (Basis 1)		General Electric 7700 Line
II.4.L.	(Basis 1)	RCS Narrow Range RTDS	Rosemount [ ] A,C

SAFETY FUNCTION		DEVICES	TYPE
II.4.M	Valve Position Indication Limit Switches (Basis 1)		NAMCO EA-180

TABLE 3

SUMMARY STATUS OF GROUP I OPEN ITEMS

ITEM	BASIS	EQUIPMENT	INTERIM RESOLUTION	FINAL RESOLUTION
I.1.A	6	MS 10 Valve Control	N/A	Existing Analysis indicates that qualification is not required.
I.1.B.1	8A,B,C	Solenoids for MS7, MS18 and MS 167 Valves	N/A	Solenoids to be replaced by June 30, 1982.
I.1.B.2	9	MS18 Valve Control	N/A	Qualification not required due to design change.
I.1.B.3	11	MS167 Control Switch	N/A	Design to be changed by 12/15/80 (Unit #1) prior to exceeding 5% power (Unit #2)
I.1.B.4	10A	Limit Switch for MS7 and MS18 (Unit 1) Valves	N/A	Design to be changed prior to exceeding 5% power (Unit #2) 12/15/80 (Unit #1) Switches to be replaced by 6/30/82.
I.1.C.1	15	RHR Valve Control (RH 18)	N/A	Procedures to be changed prior to exceeding 5% power (Unit #2) 12/15/80 (Unit #1)
I.1.C.2	16	RHR Valve Control (RH29)	N/A	Procedures to be changed prior to exceeding 5% power (Unit #1) 12/15/80 (Unit #1)
I.1.D	22	Containment Pressure A. Sensing Bellows	Procedure change prior to exceeding 5% power (Unit #2) 12/15/80 (Unit #1)	Design change by 1/31/81
		B. Transmitter	Procedure change prior to exceeding 5% power (Unit #2 12/15/80 (Unit #1)	Design change by 1/31/81
I.1.E.1	28	Cont. Isol. - Mov's and Solenoids inside Containment	N/A	Existing analysis indicates that qualification is not required.

ITEM	BASIS	EQUIPMENT	INTERIM RESOLUTION	FINAL RESOLUTION
I.1.E.2	29	Cont. Isol. Valve Limit Switches Submerged	N/A	Change procedure prior to exceeding 5% power (Unit #2) 12/15/80 (Unit #1)
I.1.E.3	18A	Cont. Isol. Valve Limit Switches Outside Containment	Change procedure prior to exceeding 5% power (Unit #2) 12/15/80 (Unit #1)	Replace switches by 6/30/82
I.1.F	26	BIT Valves' Limit Switches	Change procedure prior to exceeding 5% power (Unit #2) 12/15/80 (Unit #1)	Replace switches by 6/30/82
I.1.G.1	19	Fan Cooler Solenoid Valves	Change procedure prior to exceeding 5% power (Unit #2) 12/15/80 (Unit #1)	Replace solenoids by 6/30/82
I.1.G.2	20	Fan Cooler Flow Controls	Change procedure prior to exceeding 5% power (Unit #2) 12/15/80 (Unit #1)	Redesign flow control by 6/30/82.
I.1.H	13	Excore Neutron Detectors	N/A	Existing analysis indicates that qualification is not required.
I.1.J	7	East Control Centers	N/A	Confirmatory testing by early 1981.
I .2.A	30	Hydrogen Analyzer	Change procedure prior to exceeding 5% power (Unit #2) 12/15/80	Qualify analyzers by 1/1/82
I.2.B	32	Cont. Temperature	N/A	Change procedure prior to exceeding 5% power (Unit #2) 12/15/80 (Unit #1)
I.2.C	33	Incore Thermo-couples	N/A	Existing Analysis indicates that qualification is not required.
I.2.D	37	Cont. Humidity	N/A	Change procedure prior to exceeding 5% power (Unit #2) 12/15/80 (Unit #1).

Basis No. 1

Deficiency: Incomplete Aging Review of Miscellaneous Equipment.

Justification:

Wyle Laboratories is currently performing an aging review for PSE&G in accordance with the requirements of NUREG 0588, of equipment for which aging data is incomplete and the equipment has not been scheduled for replacement. This will encompass the identification of materials which are susceptible to aging mechanisms and which could affect equipment operation. A qualified life will be determined and maintenance programs established for the devices as required.

This matter is considered to have little safety significance for the time frame in question. Aging degradation, if it is a problem, is not expected to occur in this short period but on the order of years.

This case has been classified as Group II.4 item (II.4.2).

Corrective Action:

The aging review being performed by Wyle Laboratories is to be essentially complete by January 1, 1981.

The Wyle review contains the following elements:

1 - Existing qualification data is searched to determine if documentation exists which satisfies the required LOCA/MSLB profiles and contains pre-aging data.

Applicable data is compared with the Salem plant conditions. If the equipment qualified life is based on conditions similar to those appropriate for Salem, this value is used as the estimate of the equipment's qualified life for use at Salem.

If the aforementioned estimated qualified life was calculated at a temperature significantly different than the Salem plant conditions, the qualified life for Salem is extrapolated by use of the Arrhenius equation.

2 - If qualification data exists which does not include pre-aging, an attempt is made to demonstrate that the equipment is not subject to aging mechanisms which would prevent it from functioning at some future time during a LOCA/MSLB.

Equipment materials are identified and the thermal and radiation aging characteristics are researched. If it can be shown that the thermal and radiation resistance results in no significant aging for a 40 year service life, the material can be exempted from aging considerations.

Basis No. 2

Deficiency: Aging Review of Barton Transmitters

Justification:

This aging item is no longer considered applicable since the Barton Lot 1 transmitters have been accepted by the NRC staff for a specified operating time. The Lot 2 transmitters are considered equal to the Lot 1 devices.

This case had been previously classified as a Group II.4 item (II.4.A).

Corrective Action:

The Barton transmitters will be replaced by June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 3

Deficiency: Unavailable Qualification Data (PORV control)

Justification:

Environmental qualification of the controls for the pressurizer power operated relief valves was addressed in this report for the following reasons:

1 - NRC IE Bulletin 80-18 implied that under certain accident conditions during which the PORV's do not operate, a problem could develop with the minimum flow capability of the centrifugal charging pumps. The devices were included in this review to indicate they were not qualified and that the particular problem of Bulletin 80-18 may be applicable for Salem. An analysis has been completed which addresses Bulletin 80-18. The analysis confirms that the PORV's do not require qualification. This justification is applicable for both Salem units.

2 - The August 26 report listed this as an open item because of the assumption that the two electrically operated valves, for Unit 2, 2PR47 and 2PR48, could perform a pressure-relief function during high temperature operation. These valves, however, are part of the low-temperature, overpressure protection system (POPS) and are not used during design basis accidents, or power operation transient conditions. The motive power for the solenoid is locked-out during normal operation and cannot open spuriously. Using these considerations, the valves can only be considered as auxiliary devices, not required for mitigation of accident conditions, and thus do not require qualification.

This has been classified as a Group II.1 item (II.1.A).

Corrective Action:

No changes are required for this case.

Basis No. 4

Deficiency: Unavailable Qualification Data (PORV Indication)

Justification:

This item is no longer considered applicable since the PORV limit switches have been replaced with qualified switches as shown on page 10 of Section V. This case had been previously classified as a Group II.2 item (II.2.A) and is no longer appropriate.

Corrective Action:

None Required.

Basis No. 5

Deficiency: Unavailable Qualification Data (Stm. Gen. Wide Range Level)

Justification:

The Steam Generator Wide Range instruments do not provide any protection system inputs. They had been used by the operator during accident recovery to verify increasing steam generator water level as noted in the Salem Emergency Operating Procedures.

Although the wide range level may be lost due to an accident inside containment, the three qualified narrow range levels per steam generator will be available, as well as the auxiliary feedwater flow measurements outside of the containment. No adverse environment will affect the auxiliary feedwater flow channel due to an accident inside containment. These diverse parameters provide suitable backup to assure a secondary heat sink following an accident.

Plant operation may proceed since the operators can maintain plant safety with diverse parameters. Reference to the wide-range devices has been deleted from the procedures.

During accidents occurring outside containment, the wide-range levels are suitable for use as either primary or back-up indication.

This case has been classified as a Group II.2 item (II.2.B.1).

Corrective Action:

It is planned to replace these transmitters on a schedule contingent upon equipment availability and a suitable outage duration. They will be replaced no later than June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 6

Deficiency: Insufficient Documentation (Main Steam Power Operated Atmospheric Relief Valve Control MS10's - E/P and Pressure Transmitter)

Justification:

This item was addressed in LER 79-58. It describes the problem resulting from unqualified MS10 valve controls and the acceptability of such a condition. The procedure changes noted in the LER have been completed.

The main steam power operated atmospheric relief valves are operated by a steam pressure transmitter control signal through an electric/pneumatic converter. These are control grade instruments and are not required to be operable for accident mitigation. However, a malfunction could result in the inadvertent opening of the power operated relief valves.

Each MS10 valve has an individual steam pressure transmitter and electric/pneumatic converter associated with it. The (11) 21MS10 and (13) 23MS10 associated transmitters and electric/pneumatic converters are located in the inboard penetration area and the (12) 22MS10 and (14) 24MS10 associated devices are located in the outboard penetration area. These are physically separated areas in the plants, so that a high energy line pipe break (MSLB) in one area will not affect equipment in the other area.

The potential misoperation of the MS10 valves was discussed in LER 79-58 submitted for Salem #1. Although the analysis was written specifically for Unit 1, it is applicable to Unit 2. The analysis demonstrated that potential misoperation of MS10 valves in a particular penetration area due to postulated steam line or feedwater line breaks in that penetration area was not a safety consideration for Salem and does not invalidate any safety analyses performed for Salem.

Steam line and feedwater line breaks inside the containment will not cause an adverse environment in the inboard/outboard penetration areas. A loss of coolant accident will not result in an adverse environment in the inboard/outboard penetration areas during the initial stages of the accident. During long term recovery, the inboard/outboard penetration areas could be subject to radiation exposure.

It is believed that the devices would operate during the first few hours of recovery, however, a misoperation would not pose a safety hazard. The MS10 can be closed by turning off the control power and/or air supply (fail closed valve) thereby assuring that the valve cannot misoperate during recovery.

Existing procedure EI-I-4.6 incorporated results of the LER 79-58 analysis to provide assurance of capability to detect a need to close the valves. The procedural changes consisted of precautionary statements regarding potential valve opening.

The indication of an open MS10 valve is provided by limit switches and qualified steam flow, steam generator level and pressure indication.

These cases have been identified as a Group I.1 item (I.1.A).

Corrective Action:

Since the failure of this equipment results in operator actions which are consistent with existing analyses, qualified equipment is not required.

The existing limit switches will be replaced prior to June 30, 1982 as described in Basis 10B. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 7

Deficiency: Documentation Unavailable (East Motor Control Centers in Electrical Penetration Area).

Justification:

The materials used in the motor control centers cannot be certified as being identical to the equipment tested and qualified. It is believed that the material differences, if any, between the Salem equipment and the test specimen would not appreciably affect the radiation aging test results.

The valves which receive power from these control centers are placed in the proper position within 48 hours of the occurrence of an accident. The dose to the control centers at that time is approximately 10^4R. We have indication that the materials used at Salem are capable of functioning up to 10^6R. This will be confirmed by performance of radiation tests on a representative control-center motor starter assembly.

This case is classified as a Group I.1 item (I.1.J).

Corrective Action:

Confirmatory radiation testing to document our conclusions will be performed during early 1981. The control centers will be qualified prior to June 30, 1982.

Basis No. 8A

Deficiency: Insufficient Qualification Data (Control for Main Steam Drain Valve Isolation MS7's)

Justification:

These particular solenoid valves must only operate for less than one second following an accident signal in order to accomplish steamline isolation. The solenoids deenergize to close the MS7 valves. Catalog data indicates that these solenoids have high temperature coils and will operate for short periods of time at elevated temperatures. In addition, these solenoids are located in instrument panel enclosures. It was demonstrated by test (Wyle Labs Report No. 44439.1, Rev. A) that devices within the panel are thermally protected by limiting the severe temperature transient rise time. This provides further evidence in support of the solenoid operation as intended by design.

NRC review criteria requires assurance of operability for a period of at least one hour. Westinghouse performed an analysis (NS-CE-755) which indicates that the failure mode of this type of solenoid valve is in the closed (fail safe) position thereby assuring isolation valve closure. Until new solenoids are installed, plant operation may proceed based on the above engineering analysis, design spec and panel test data.

This case has been classified as a Group I.1 item (I.1.B).

Corrective Action:

Replacement solenoids will be installed as soon as practical but prior to June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 8B

Deficiency: Insufficient Qualification Data (Control for Main Steam Isolation Valves MS167's)

Justification:

These particular solenoid valves must operate (energize) for less than one second to close the Main Steam Isolation Valves. Two solenoids in parallel are used for each MS167 valve; operation of either one will cause closure. Once air has been vented, even if the solenoid valve deenergizes, the MS167 valve will remain closed.

This case has been classified as a Group I.1 item (I.1.B).

Corrective Action:

These solenoids will be replaced prior to June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 8C

Deficiency: Insufficient Qualification Data (Control for Main Steam Warmup Valve Isolation MS18's)

Justification:

These particular solenoids must deenergize similar to the MS7 solenoid valves but they are not protected by instrument panel enclosures.

However, they are the high temperature coil design and the appropriate analysis described in Basis 8A is applicable.

This case has been classified as a Group I.1 item (I.1.B).

Corrective Action:

These solenoids will be replaced prior to June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 9

Deficiency: Documentation Unavailable PAT for Main Steam Warmup Valve (MS18) Control - Unit 2 only

Justification:

This item is no longer considered applicable since the PAT controls have been eliminated as a source of misoperation by a design change incorporated as a result of Bulletin 80-06. This case had been previously classified as a Group I.1 item (I.1.B.2). This classification is no longer appropriate since the PAT controls do not require qualification.

Corrective Action:

None Required.

Basis No. 10A

Deficiency: Documentation Unavailable (Limit Switches for Main Steam Drain Isolation (MS7) Valves and Unit 1 Main Steam Warmup (MS18) Valves

Justification:

The plant is designed such that a HELB can only affect the valves associated with two of the four steamlines.

The limit switches for the MS7 valves for Units 1 & 2, and the MS18 valves for Unit 1 are utilized in valve control as well as for position indication. They provide seal-in contacts for the solenoid pilot valves. Upon a reset of the main steam isolation signal, if the limit switch contacts fail the solenoid pilot valves will reenergize and the MS7 and MS18 valves would reopen.

The loss of position indication does not negate the safety function of these valves. Determination of whether main steam isolation has been accomplished can be made by checking main steam pressure and flow indications. If any doubt exists, the operator can deenergize the control power to the solenoid pilot valves thereby assuring valve closure.

Plant operation may proceed pending circuit design changes due to the fact that alternate qualified indications for determining whether steamline isolation was accomplished are available and action can be taken to assure that isolation valves remain in the closed position.

This case has been classified as a Group I.1 item (I.1.B.4).

Corrective Action:

The valve control circuitry for the Unit 2 MS7 valves will be modified prior to exceeding 5% power level to eliminate the control problem. Similar circuit changes for the Unit #1 MS18 and MS7 valves will be completed by December 15, 1980.

The limit switches on these valves will be replaced with qualified switches by June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Procedure EI4.6 will be modified to include note to the operators that these valves may be subject to erroneous position indication. These changes will be effective prior to exceeding 5% power (Unit 2) and 12/15/80 (Unit 1).

Basis No. 10B

Deficiency: Documentation Unavailable (Limit Switches for Main Steam Isolation (MS167) Valves, Steam Generator Relief (MS10) Valves and Unit 2 Main Steam Warmup (MS18) Valves

Justification:

The plant is designed such that a HELB can only affect the valves associated with two of the four steamlines. The limit switches for the MS167 and MS10 valves for both Units and the Unit 2 MS18 valves are utilized for position indication only.

As was described in Basis NO. 10A for position indication, alternate qualified indications are available to determine steamline status by pressure and flow.

An erroneous position indication would not result in operator actions which would negate post-accident system requirements. Verification of steamline isolation can be made by use of the steamline pressure and flow measurements which are qualified.

This case has been classified as a Group II.2 item (II.2.C).

Corrective Action:

The limit switches for all of the valves will be replaced with qualified switches by June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Procedure EI.4.6 will be modified to include a note to the operators that the isolation valves may be subject to erroneous position indication. These changes will be effective prior to exceeding 5% power (Unit 2) and 12/15/80 (Unit 1).

Basis No. 11

Deficiency: Documentation Unavailable (CMC and enclosure for local control of MS167)

Justification:

Each main steam isolation valve is equipped with a local control switch and an enclosed terminal block which are used for testing the valves during normal plant operation. The control switches operate a hydraulic pump motor to open and close the valves. The failure of these devices cannot prevent the safety function of steamline isolation due to interlocks with the plant protection system to prevent operation of the hydraulic pump motor. The hydraulic pump motor is not needed for closing the valve under accident conditions.

A reset of the main steam isolation signal removes the interlock and could result in a valve opening if the switch contacts were failed.

This case has been classified as a Group I.1 item (I.1.B.3).

Corrective Action:

The control switch will be removed from the valve control circuit prior to exceeding the 5% power level (Unit #2). Unit #1 will have the circuit changed by December 15, 1980.

Basis No. 12

Deficiency: Documentation Unavailable (Steam Generator Auxiliary Feedwater Flow Transmitters and Signal Processing Equipment)

Justification:

Auxiliary feedwater flow measurement involves the use of transmitters and signal processing devices which are located outside containment in the penetration areas. Indication of auxiliary feedwater flow is a backup method of determining the existence of an adequate heat sink during transients or accidents which require auxiliary feedwater. The primary indication of heat sink availability is the narrow-range steam generator level measurement which is qualified for both inside and outside containment line breaks.

An erroneous indication of auxiliary feedwater flow would not lead the operator to termination of auxiliary feedwater. Outside containment line breaks cannot affect all of the flow indication; at least two auxiliary feedwater flow indications would be available. Alternate methods of determining auxiliary feedwater flow are also available (e.g. pump running and valves open).

These cases have been classified as a Group II.2 item (II.2.B.3).

Corrective Action:

Qualified transmitters will be installed and the signal processing equipment will be relocated by June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 13

Deficiency: Documentation Insufficient (Ex-core neutron detectors)

Justification:

This item is no longer considered applicable since analysis shows that the devices do not perform a safety function as described in LER 79-58. This case had previously been classified as a Group I.1 item (I.1.H). This classification is no longer appropriate.

Corrective Action:

None required.

Basis No. 14

Deficiency: Pressure Integrity of Instrument Panels for Wide Range Steam Generator Water Levels

Justification:

The panels house the instruments used for wide-range level measurement described in Basis #5.

This case has been classified as a Group II.2 item (II.2.B.2).

Corrective Action:

These panels will be equipped with louvered sections when the new wide-range transmitters are installed prior to June 30, 1982. The louvered section compensates for the pressure transient seen by the panels. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 15

Deficiency: Documentation Unavailable [E/P for RH20 (RHR Heat Exchanger Bypass Valve) and RH18 (Heat Exchangers Outlet Valve)]

Justification:

Electric/pneumatic converters are used in the position control for the RHR system valves to modulate flow through and around the RHR system heat exchangers for temperature control during normal cooldown. Modulation of these valves is not required during accident conditions. The position of RH20 is unimportant since manual valves upstream are closed during power operation. They are opened when the RHR system is aligned for a normal cooldown.

A potential misoperation of the device causing valve movement during recirculation can be avoided. The control air supply to the RH18 valves can be isolated during normal power operation. This causes the RH18 valves to open and remain open. Any subsequent misoperation of the electric/pneumatic converter would not cause the valve to change position. The air supply would be restored only when the RHR system is aligned for normal shutdown operation. No action is required by the operator during the initial stages of an accident or post-accident recovery. The RH20 valve plays no part in safety at the Salem plant as presently designed and operated.

Administrative control is suitable as a final resolution since it renders the E/P devices incapable of affecting accident conditions and requires no additional operator actions during an accident.

This case has been classified as a Group I.1 item (I.1.C.1).

Corrective Action:

The control air supply to the RH18 valves will be isolated during normal power operation to prevent valve misoperation. This administrative control will be invoked by procedure OI II.6.3.2. Restoration of control air to the valves for normal shutdown operations will be governed by procedure OI II.6.3.3. Approved procedures will be in effect prior to exceeding 5% power (Unit #2). The Unit #1 change will be made prior to December 15, 1980.

Basis No. 16

Deficiency: Documentation Unavailable [RHR Pump Recirc Flow Control (RH29)]

Justification:

Each RH29 valve is controlled by a Barton 289A flow switch measuring RHR pump discharge flow.

These devices are located in an area of the plant which will not be subject to a harsh environment during the initial stages of an accident. The devices are in an area subject to high integrated radiation exposures during the recirculation, post-accident recovery phase.

The safety analysis for the plant considers the RH29 valves closed during recirculation. In addition, the Salem emergency operating procedures require the operator to verify the closed status of the RH29 valves during recirculation. This can be accomplished using qualified devices. A failure of the flow switch during recirculation could cause the RH29 valves to open. The operator has the capability for manual override of the automatic control and therefore can close the valve. Once closed by manual action, a failure of the switch will not cause valve operation. The manual override portion of the circuit is not subject to a harsh environment. The RH29 valves are motor operated and have adequate qualification documentation for recirculation operation.

Plant emergency operating procedures will be revised to instruct the operator to manually close the RH29 valves from the control console and verify closure.

Corrective Action:

Procedure EI-I-4.4 will be modified and in effect prior to exceeding 5% power (Unit #2). The equivalent Unit #1 procedure will be modified and in effect prior to December 15, 1980.

Basis No. 17

Deficiency: Documentation Insufficient (Containment Isolation Solenoids Outside the Containment)

Justification:

The solenoid valves must only operate for a very short period of time. They deenergize in order to close their respective containment isolation valve. Operability is based on a failure analysis performed by Westinghouse (NS-CE-755) which indicates that the failure mode of this type of solenoid valve is in the closed (fail safe) position thereby assuring isolation valve closure. These solenoids are located in enclosures which provide thermal protection and minimize thermal rise transients.

The outside containment isolation valves' solenoids function to provide control for closing the redundant isolation valves during accidents inside containment. The outside isolation valves' solenoids are not subjected to the containment environment. The valves could be exposed to harsh environments caused by high energy line breaks in the penetration area. These breaks, however, do not require complete containment isolation.

The postulated breaks in question are small steam breaks; steam generator blowdown and steam feed to auxiliary feedwater pump turbine. Following the postulated break, temperatures do not exceed 200°F until after ten minutes. Selected lines for isolation may be required and operability should occur within this time span.

Existing information indicates that these valves would close in the environment caused by high-energy line breaks, and that any subsequent failure would tend to keep the valve closed. Because of this, and the protection afforded by the solenoid valve enclosures, we conclude that the valves would remain in the safe position.

This case has been classified as a Group II.3 item (II.3.A).

Corrective Action:

These solenoid valves will be replaced with qualified devices prior to June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 18A

Deficiency: Documentation Unavailable (Containment Isolation Valve Limit Switches Outside Containment)

Justification:

These limit switches provide indication and control functions for the isolation valves. The analysis presented in Basis 17 concerning need for isolation with a high energy line break outside containment is also applicable for the limit switches. However, no documentation is available to support their operability in a high temperature environment or high radiation during recirculation.

The limit switches are not required to accomplish containment isolation. The containment isolation signal (not subject to adverse environment) prevents valve opening. Upon containment isolation reset the limit switch seal-in feature is no longer prevented and a potential limit switch failure could result in solenoid energization and valve reopening. Reset of containment isolation is not required for post accident recovery.

The loss of indication or faulty indication will be made known to the operators since procedures require him to check valve closed position. It is expected that the switches will operate at the time isolation occurs so that indication would be available for initial verification of the isolation function.

The loss of accurate position indication to the operator is not a safety concern.

Plant operation may proceed pending replacement with qualified limit switches on the basis that operators can take action to assure that necessary safety functions have been completed.

This case has been classified as a Group I.1 item (I.1.E.3) for valves which use the limit switches in the valve control circuit, and as a Group II.3 item (II.3.B) for valves which use the limit switch for indication only.

Corrective Action:

As an interim measure, Procedure EI-I-4.2 for Unit #2 will be changed prior to exceeding 5% power. The Unit #1 procedure will be changed prior to December 15, 1980.

The procedure will advise the operator of potential for valve reopening after reset of the containment isolation signal. The procedure will also instruct the operator to de-energize the control circuits of any affected valves prior to reset of the containment isolation signal. Since this would be a long-term recovery action it would not impose undue burden on the operator.

The final resolution of this item will be to replace the limit switches prior to June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 18B

Deficiency: Documentation Unavailable (Limit Switches for Some Inside Containment Isolation Valves)

Justification:

Current procedures instruct the operator to verify the closed position of isolation valves. The limit switches provide this indication. Loss of indication will not cause the operator to take any action contrary to safety of the plant.

This situation has been analyzed in the response to FSAR Question 7.35 and has been accepted by the NRC staff in Supplement 4 to the Salem #2 Safety Evaluation Report, Section 3.11(5). Qualification of these switches is not required.

This case has been identified as a Group II.2 item (II.2.D).

Corrective Action:

None Required.

Basis No. 19

Deficiency: Documentation Unavailable [Solenoid Valves for Fan Cooler Service Water Flow Control (SW57, 65, 223)]

Justification:

The pilot solenoid valves for the above noted valves were identified as ASCO JX8342A22 in the original report. These valves have been upgraded to Model X8342B22. This model represents modifications by ASCO of the standard solenoid valve. The modifications made to this valve equip it with a solenoid core and coil assembly derived from the NP series solenoid valves in order to provide a voltage and temperature margin. The NP series solenoid valves have been environmentally qualified. By similarity of the electrical component to NP series and the operating margin of the "H" coils in the solenoid valves, it has been concluded that these devices will operate in an adverse environment for the time frame needed to perform their function.

During inside containment accident conditions, high service water flow is required for proper cooling capacity as stated in the safety analysis. Postulated accidents outside the containment do not require high cooling capacity for the containment fan coolers. The SW65 valve solenoids are located within the containment and are called upon to operate within one minute following a LOCA/MSLB inside containment.

In addition to modification of the solenoid valves with NP series electrical components to provide operability in high temperature environment, the SW65 valves will open to provide high flow upon loss of control air. A LOCA/MSLB inside the containment results in automatic containment isolation which isolates control air from the containment.

The solenoid valves located outside the containment (SW57 and SW223) will not be subject to an adverse environment during the time frame needed for operation. Any subsequent misoperation of the outside solenoids during long term recovery due to high radiation exposure can be prevented by deenergization of control power for the solenoids once full flow is established.

This case has been classified as a Group I.1 item (I.1.G.1)

Corrective Action:

As an interim measure, Procedure EI-I-4.4 will be modified prior to exceeding 5% power (Unit #2). The Unit #1 change will be made prior to December 15, 1980.

The modified procedure will instruct the operator to deenergize the control circuits for these valves during long-term recovery actions. This action will not impose a burden on the operators.

The final resolution of this item will be to replace the solenoid valves prior to June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 20

Deficiency: Documentation Unavailable (Flow Control for SW223 valves, Fan Cooler Units)

Justification:

These service water valves are provided with flow control equipment consisting of Fischer-Porter 53EG3000 flow controllers, Fischer-Porter 53EI3000 electric/pneumatic converter, Fischer-Porter 50ES3212 square root extractor and Fischer-Porter [illegible] A,C differential pressure transmitter. These devices are all located outside the containment.

The safety functions of the fan cooler units can be accomplished irrespective of flow control operability based on the following:

- Accidents (LOCA/MSLB) inside the containment will not result in adverse environments in the area where the devices are located for the automatic actuation of the fan cooler units.

- Accidents outside the containment do not require high cooling capacity for the fan coolers.

- During long term recovery from accidents inside the containment, the devices will be exposed to high integrated radiation doses which could affect service water flow. The operator can assure high flow by de-energizing control power to the flow control devices which will cause the valves to remain open.

The safety function of the containment fan coolers will be accomplished without the need for operator action. Long term recovery may require operator action to compensate for equipment failures.

This case has been classified as a Group I.1 item (I.1.G.2)

Corrective Action:

As an interim measure, Procedure EI-I-4.4 will be modified to assure long-term flow to fan coolers. Procedure modification is to be completed prior to exceeding 5% power (Unit #2). The Unit #1 change will be made prior to December 15, 1980.

The modified procedure will instruct the operator to de-energize the valve control circuit which assures that the valve cannot be closed by controller failure. This action is covered by the procedure change for Item I.1.G.1. (Basis #19)

The final resolution of this item will be to redesign the flow control system before or during first refueling outage (Unit #2). The Unit #1 change will be made prior to June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 21

Deficiency: Qualification Test Method (Pressure Measurements; Boron Injection Tank, SI Pumps)

Justification:

Current procedures instruct the operator to check ECCS operation by observing boron injection tank and safety injection pump discharge pressures during the initial phase of an accident. Inoperability of these devices would not result in termination of safety injection. Alternate indications are also available to verify ECCS status (e.g. pumps running, open valves, etc.)

Existing qualification is based on separate effects testing in lieu of sequential effects testing. Due to the type of service required of these devices, the separate effects test method is acceptable to qualify the devices. Additional qualification is not required.

This case has classified as a Group II.2 item (II.2.E.1).

Corrective Action:

None required.

Basis No. 22

Deficiency: A. Testing Deficiencies (Containment Pressure Sensing Bellows)

B. Documentation Unavailable (Pressure Transmitter)

Justification:

A. The Containment Pressure instrument sensing bellows is located inside the containment and has undergone qualification testing. A pressure spike recorded during testing has been investigated by Westinghouse, and has been determined not to be a safety problem since the safety functions of the device will be performed despite the pressure spike. PSE&G concurs with this determination. The output of the device recovered following a short duration pressure pulse.

Information from Westinghouse indicates that these effects can be attributed to heatup of the water-filled design and that an oil-filled system has been proven to eliminate the problem.

Since the pressure spike cannot prevent the safety function of the device, plant operation may proceed on the basis that the operators will be made aware of the possible spike following an inside containment accident.

B. The transmitter is located outside of the containment and does not have documentation to support operation in a hostile environment. However, potential pipe breaks outside the containment do not require operation of the devices. Potential accidents inside the containment will not cause an adverse environment outside until the recirculation phase of the accident and then only high radiation. The pressure transmitter will perform its safety trip function prior to high radiation conditions and provide the operator with information on the adequacy of containment cooling and decreasing containment pressure. Containment cooling via spray and fan coolers will continue during recirculation.

Both of these cases have been classified as a Group I.1 item (I.1.D).

Corrective Action:

A. As an interim measure, Procedure EI-I-4.0 will be revised prior to exceeding 5% power (Unit No. 2). The Unit No. 1 change will be made by December 15, 1980.

The procedure revision would inform the operator to expect the spike/ringing effect and to disregard that information. Conversion of the equipment will eliminate the problem.

The final resolution of this item will be to install an oil-filled system no later than 1/31/81 (Unit No. 2) to remove potential for anomalous pressure indication. The Unit No. 1 change will occur by 1/31/81.

B. As an interim measure, Procedure EI-I-4.4 will be revised for Unit #2 prior to exceeding 5% power level; the Unit #1 procedure will be changed prior to December 15, 1980.

The procedure modification advises the operator of potentially inaccurate pressure measurements during long term recovery operations. Actual containment pressure during long-term recovery will be low.

The final resolution of this item will be to install qualified containment pressure transmitters by June 30, 1982 on both units. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Until the qualified transmitters can be installed, the containment wide-range pressure transmitters required by NUREG-0578 and NUREG-0737 will be used for long-term accident monitoring.

Installation of the wide-range pressure instruments will be completed by 1/31/81 on both units.

Basis No. 23

Deficiency: Documentation Unavailable (Containment Spray Additive Tank Level Instruments)

Justification:

Current procedures instruct the operator to monitor tank level to assure that sodium hydroxide is added during containment spray. Operator action is independent of the tank level reading since spray is continued until a low-low level is reached in the refueling water storage tank despite the spray additive tank level indication. The system used to inject the NaOH solution operates on a passive eductor principle. As long as the spray pump is pumping water and the spray additive tank discharge line is open, the solution from the additive tank will be educted into the spray. These conditions are indicated by qualified devices.

This case has been classified as a Group II.2 item (II.2.E.2).

Corrective Action:

Qualification of the additive tank level instruments is not required since they do not perform a safety function.

Basis No. 24

Deficiency: Unavailable Qualification Data (Accumulator Instruments)

Justification:

The accumulator injection system safety function is performed independently of the operability of the instrumentation associated with the accumulators. The system is entirely passive and will inject the contents of the tanks when reactor coolant pressure decreases below the accumulator pressure which is maintained during normal operation.

Requirements for qualified accumulator pressure or level indication have been specified in Regulatory Guide 1.97. Since operator actions are not based on these devices for either short or long term conditions, plant operation may continue until compliance with R.G.1.97 is achieved.

This case is classified as a Group II.1 item (II.1.C).

Corrective Action:

The accumulator instrumentation will comply with R.G.1.97 requirements by June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 25

Deficiency: Insufficient Documentation (Control for BIT Recirc. Valves SJ78, 79, 108)

Justification:

All of the valves in question are located outside of the containment and not subjected to a severe environment during accidents which require the operation of the valves. The valves are qualified for short-term operability.

These particular valves close upon a safety injection signal to assure that the entire contents of the boron injection tank and RWST water flow is to the reactor coolant system. The solenoids are located in enclosures which provide thermal protection and minimize thermal rise transients. Operability is based on a failure analysis performed by Westinghouse (NS-CE-755) which indicates that the failure mode of this type of solenoid valve is in the closed (fail safe) position, thereby assuring valve closure.

During long-term conditions, the valves cannot reposition despite any environmental effects on the solenoid and thus are qualified.

Failure of SJ108 to close does not pose a safety consideration since a check valve is in the line and will prevent flow through the recirculation line. The SJ78 and 79 valves are in series and only one must close to accomplish the safety function.

Line breaks outside containment in the vicinity of these valves do not require operation of the valves to perform any safety function.

This case has been classified as a Group II.3 item (II.3.C).

Corrective Action:

The solenoid valves will be replaced by June 30, 1982, or as soon as practical. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 26

Deficiency: Documentation Unavailable [limit switches for BIT Recirculation Valves (SJ78, 79, 108)]

Justification:

The BIT recirculation valves close upon a safety injection signal. Limit switches for these valves are utilized for seal-in control. The limit switches are not used to cause isolation. Upon a safety-injection signal reset, the devices are restored to the circuit.

Plant operation may proceed pending replacement with qualified limit switches or appropriate design changes on the basis that the operators can take action to assure necessary safety functions.

The case has been classified as a group I.1 item (I.1.F).

Corrective Action:

As an interim measure, Procedure EI-I-4.6 will be modified prior to exceeding 5% power (Unit #2). The Unit #1 procedure will be modified by December 15, 1980.

The modified procedure will instruct the operator to isolate the BIT as part of terminating safety injection if a HELB has occurred in the mechanical penetration area. This action does not impose undue burden on the operator.

The final resolution of this item will be to replace the limit switches by June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 27

Deficiency: Qualification Test Method (Charging Flow, SI Pump Flow, RHR Flow, Spray Additive Tank Flow Instruments)

Justification:

The purpose of these instruments is to assist the operator to assess performance of the ECCS. The operating status of ECCS components would not be altered despite erroneous readings. Backup system status indication is also available (e.g. pumps running and valves open).

These instruments are used only during the initial stages of an accident and can be considered qualified for that service on the basis of the separate effects tests in lieu of sequential testing.

This case has been classified as Group II.2 item (II.2.E.3).

Corrective Action:

These instruments will be replaced by June 30, 1982. The installation schedule will be accelerated as equipment becomes available and plant operating conditions permit installation.

Basis No. 28

Deficiency: Flooding of Containment Motor-Operated Valves, Isolation Valve Solenoids and Instrument Panels

Justification:

The motor-operated valves are Limitorque SMB's. The solenoid valves are the ASCO NP series. Both devices have been qualified for post-accident operation inside the containment but the data does not support operability in a submerged state. The devices are located at an elevation in the containment that will not become flooded prior to performing their isolation functions. The valves close within 30 seconds. Afterwards when the devices become flooded, valve operation is not required. Operability in a submerged state for one hour as required by NUREG-0588 is not warranted under these conditions.

The solenoid valves are located in instrument panels which have been qualified for post-accident operation to assure that the solenoids perform their function but have not been proven in a submerged state. This is immaterial in this case also, since the isolation function is accomplished prior to submergence.

The electrical circuits are protected by Class 1E breakers should shorts develop during submergence. The effect of a potential loss of control power on other devices fed from the same circuit has been analyzed for safety implications.

The results, as described in FSAR response to Question 6.28, show that plant safety is not affected. This analysis has been reviewed by the NRC and found acceptable as reported in Safety Evaluation Report for Salem Units 1 and 2, Supplement 1, June 1976.

This case has been classified as a Group I.1 item (I.1.E.1).

Corrective Action:

No additional qualification is required.

Basis No. 29

Deficiency: Flooding of some containment isolation valve limit switches

Justification:

The limit switches for the following valves could become submerged following a LOCA/MSLB inside the containment:

CV3	SJ123
CV4	WL98
CV5	

These limit switches have been qualified for post-accident operation but the qualification data does not include proper operability in a submerged state. These limit switches are not utilized to perform the containment isolation function.

The limit switches provide operator indication of valve position and are used in a seal-in control for valve opening. The isolation signal from the protection system eliminates the seal-in feature. Once the limit switch is restored to the valve control circuit; its failure could result in the reenergization of the solenoid and a potential reopening of the valve. However, there are two factors that will prevent this:

a. These isolation valves require control air to open and remain open. Control air is isolated from the containment as part of automatic containment isolation.

b. The solenoid valves cannot be reenergized, even if the limit switches should fail, unless the containment isolation signal is reset. Post accident recovery does not require containment isolation reset.

Failure of the limit switches due to flooding cannot affect plant safety.

The loss of indication or inaccurate indication for these valves does not pose a safety problem or cause the operator to take action contrary to safety.

One action that he could take due to false or inaccurate indication is to attempt closure of the valve by pressing the control console pushbutton and checking that the redundant valve outside the containment has closed, and if not, attempt closure. The other action that could be taken is to deenergize the control circuit at the 125V DC distribution cabinets (not subject to adverse environment).

In order to preclude any potential failure if the operator were to reset containment isolation, the emergency operating procedures will require that the control circuit for the noted valves be deenergized prior to isolation signal reset. This will prevent reenergization of the solenoid valves.

This case has been classified as a Group I.1 item (I.1.E.2).

Corrective Action:

Procedure EI-I-4.2 will be revised to assure that the affected valves cannot automatically open following reset of the containment isolation signal. This will be done prior to exceeding 5% power (Unit #2). The same change will be made on Unit #1 prior to December 15, 1980.

The procedure will advise the operator of the potential for valve reopening if the containment isolation signal is reset. It will include a requirement to deenergize the control circuits of the five valves prior to reset of the containment isolation signal.

The procedure will also advise the operator that valve position indication could be affected; deenergization of the control circuit assures valve closure.

The action described can be achieved during long-term recovery operations and does not impose undue burden on the operator.

Basis No. 30

Deficiency: Documentation Unavailable (Hydrogen Analyzers)

Justification:

Current operating procedures instruct the operator to monitor hydrogen concentration as a guide for actuation of the hydrogen recombiners.

Deletion of the analyzer reading as a basis for operation of the recombiner will assure control of any hydrogen generated during an accident. Actual hydrogen concentration can be determined by sampling.

This case has been classified as a Group I.2 item (I.2.A).

Corrective Action:

Procedure EI-I-4.4 will be modified prior to exceeding 5% power (Unit #2). It will instruct the operator to actuate the hydrogen recombiners as part of the recirculation phase actions independent of the hydrogen analyzer reading. The same change will be made for Unit #1 prior to December 15, 1980.

In accordance with the requirements of NUREG-0737, the hydrogen analyzers will be qualified by January 1, 1982.

Basis No. 31

Deficiency: Documentation Unavailable (Containment Sump Level Indication)

Justification:

Current procedures instruct the operator to check for adequate RHR pump NPSH by observing the sump level indication. The operator actions, however, are based on the RWST level and not the sump level. An erroneous sump level indication will cause no action to be taken which is contrary to accident recovery operations.

This item has been classified as a Group II.2 item (II.2.E.4).

Corrective Action:

As a result of NUREG-0737 requirements, these devices will be replaced on Unit #1 by 1/1/81, and on Unit #2 by 5/31/81. The new level instruments have been designed to meet the requirements of IEEE-323-1974. Qualification testing by the manufacturer is expected to be completed around mid-1981. The existing procedure alerts the operator to a possible erroneous indication.

Basis No. 32

Deficiency: Documentation Unavailable (Containment Temperature)

Justification:

Current procedures instruct the operator to monitor containment temperature as a guide in determining the type of accident which has occurred. The thermocouples have been specified for suitable operation up to 400°F with a maximum expected containment temperature of 350°F. It is anticipated that the thermocouples will operate properly even though environmental documentation is not available to verify this.

Since backup parameters are available to determine the type of accident, the operators will be advised of the potential for incorrect temperature information and the procedures will be suitably modified. This procedural change will be sufficient to ensure proper diagnosis of the accident.

Accident diagnosis will be based upon containment pressure (qualified for this function), reactor coolant system pressure, steamflow, steamline pressure, and narrow-range steam generator level.

This case has been classified as a Group I.2 item (I.2.B).

Corrective Action:

Procedure EI-I-4.4 will be revised prior to exceeding 5% power (Unit #2) to reflect potential inaccuracy of the temperature indication. The indication may be used as backup information to determine the occurrence of an inside-containment accident. This change will be made on Unit #1 prior to December 15, 1980.

Basis No. 33

Deficiency: Documentation Unavailable (Incore Thermocouples)

Justification:

Current procedures instruct the operator to monitor the incore thermocouples as a guide to determining the existence of adequate core cooling. Despite a lack of available documentation in our possession, Westinghouse information and operating history of these devices indicate that they would function. If these devices were to fail, backup parameters, such as, RCS pressure and temperature, steam generator level, and auxiliary feedwater flow are available to enable determination of adequate core cooling. These backup devices are qualified and are described in the procedure which also alerts the operator to potential errors in the incore temperature readings.

The existing procedure and availability of alternate indications is sufficient to ensure proper determination of core-cooling adequacy.

This case has been classified as a Group I.2 item (I.2.C).

Corrective Actions:

None required.

Basis No. 34

Deficiency: Documentation Insufficient (Containment Radiation Monitor Unit 2)

Justification:

Current procedures instruct the operator to monitor containment radiation as a guide to determining the occurrence of a LOCA inside the containment. This determination is readily made by use of other direct parameters and initiation of safety injection systems. The procedures also mention the use of these indications. The information in the procedure is pertinent to the initial few minutes of an accident; the monitor has undergone testing to demonstrate its capability during that time period, and is therefore qualified for the function specified.

The need for a long-term, high-level monitor was established by the requirements of NUREG-0737.

This case has been classified as a Group II.2 item (II.2.G).

Corrective Action:

As an interim solution, Procedure EI-I-4.4 will be modified prior to exceeding 5% power (Unit #2) to eliminate its use for long-term, post-LOCA conditions.

The procedure modification will instruct the operator to use sampling methods to determine containment radiation levels during long-term, post-LOCA conditions until installation of the new monitors.

The final resolution of this item will be to install new monitors in Spring, 1981 to meet the requirements for long-term use.

Basis No. 35

Deficiency: Documentation Unavailable (Containment Radiation Monitor Unit 1)

Justification:

The analysis for continued plant operation described in Basis No. 34 is also applicable to Unit 1. There is no documentation to support operation of this monitor during the initial stages of the transient but the alternate indications and methods are available.

This case has been classified as a Group II.2 item (II.2.G).

Corrective Action:

As an interim solution, Procedure EI-I-4.4 will be modified prior to December 15, 1980 to eliminate its use for long-term, post-LOCA conditions. This procedure modification will instruct the operator to use sampling methods to determine radiation levels during long-term, post-LOCA conditions. The final resolution of this item will be to install new monitors in the Spring of 1981 to meet the requirements for long-term use.

Basis No. 36

Deficiency: Documentation Unavailable (Nozzle Support Fans, Reactor Shield Vent Fans and Control Rod Drive Fans)

Justification:

The nozzle support fans, reactor shield vent fans and the control rod drive vent fans were listed only because they are mentioned in the emergency procedures. They are not required to perform a safety function, and inadvertent operation (on or off) of these devices does not affect the proper course of actions in response to design basis accidents. The equipment does not require environmental qualification.

This case has been classified as a Group II.1 item (II.1.B).

Corrective Action:

None required.

Basis No. 37

Deficiency: Documentation Unavailable (Containment Humidity Detectors)

Justification:

These devices are not required for any safety actions. Current procedures instruct the operator to monitor humidity as a guide to determining the occurrence of an inside-containment accident. As discussed under Basis 32, other direct indications are available to readily identify an inside-containment accident. Accident diagnosis will be based upon containment pressure, reactor coolant system pressure, steamflow, steamline pressure, and narrow-range steam generator level. This negates a need for qualified humidity detectors.

This case has been classified as a Group I.2 item (I.2.D).

Corrective Action:

Procedure EI-I-4.4 will be modified prior to exceeding 5% power (Unit #2) to reflect potential inaccuracy of the humidity indication. It may be used as backup information to determine the occurrence of an inside-containment accident. The same change will be made for Unit #1 prior to December 15, 1980.

Basis No. 38

Deficiency: Documentation Unavailable (Rod Position Indication)

Justification:

The existing Salem emergency operating procedures require the operator to verify reactor trip by monitoring the rod bottom lights.

If a successful trip is not indicated, a manual reactor trip is initiated in accordance with procedures.

This case has been classified as a Group II.2 item (II.2.F).

Corrective Action:

None required.

VIII. COMPLIANCE WITH NUREG-0588

VIII. Compliance With NUREG-0588

The Salem Unit 2 plant falls under the Category II requirements of NUREG-0588. The following information is provided on the review process performed for Salem with respect to NUREG-0588 requirement items:

Item 1.1 - LOCA Qualification Profile

NUREG-0588 states that the LOCA parameters used in the design of the containment structure and found acceptable by the NRC, are appropriate for environmental qualification purposes. The values used in the Salem review came from the FSAR, Figures 7.5-5, 14.3-25 and page 14.3-56 and are based on the Salem LOCA analysis. The NRC has reviewed the methodology and values used in this analysis and has found it acceptable (SER for Salem dated 10/11/74 pages 6-2 through 6-6 and supplemented in SER dated 4/80 page 6-3).

The Salem LOCA profile was calculated by Westinghouse utilizing the methodology described in WCAP-8312A for calculating LOCA mass and energy release. Appendix A to NUREG-0588 indicates that this is acceptable to the Staff. The COCO model describes in WCAP's 8327 and 8936 was used to establish the containment pressure and temperature time-dependent variations following a LOCA. Although this model has not received generic approval form the Staff, the NRC has found it acceptable on a number of plants including Salem as indicated in the Safety Evaluation Reports. We believe that this is an acceptable approach in meeting the NUREG-0588 LOCA guidelines.

Item 1.2 - MSLB Qualification Profile

The document states that the MSLB parameters should be calculated using a plant specific model or other model based on staff approved assumptions. An MSLB analysis was performed specifically for Salem. The results were presented in response to question 5.82 in the Salem FSAR. This analysis has been reviewed and approved by the NRC Staff (SER for Salem 4/80 pages 6-2 and 6-3).

The Salem MSLB profile was calculated by Westinghouse utilizing the methodology described in WCAP 8822 for calculating the MSLB mass and energy release. The COCO model described in WCAP's 8327 and 8936 was used to establish the

containment pressure and temperature time-dependent variations following an MSLB. Although this model has not received generic approval from the Staff, the NRC has found it acceptable on a number of plants including Salem as indicated in the Safety Evaluation Reports. The Salem information and methods were described in FSAR responses to Questions 5.62, 5.63, 5.82, 5.83, 5.84, 5.85.

In addition the NRC Staff themselves performed a confirmatory MSLB analysis utilizing their assumptions and the Contempt Code on a number of plants including Salem as indicated in the Safety Evaluation Reports. We believe this is an acceptable approach in meeting the NUREG-0588 requirements.

Item 1.3 - Chemical Spray

Salem review and requirements address chemical spray as defined on FSAR page 6.4-10 in the manner prescribed by NUREG-0588 including single failure.

Item 1.4 - Radiation Doses

The Salem review and calculated doses conform to the requirements of NUREG-0588. This includes the proper source terms for both inside and outside containment, and beta doses per applicable requirements.

Item 1.5 - Outside Containment Environmental Conditions

NUREG-0588 states that the parameters for outside containment should be based on the same models/calculations for inside containment conditions. The Salem review parameters for outside the containment were not determined by using the same computer codes used for in-containment accidents. A summary of the method used is as follows:

- conditions are based on worst case pipe break (fluid temperature and pressure conditions)
- determination of steam/water blowdown rate including allowances for encapsulation of pipes and limited flow areas where applicable
- calculation of peak temperature and time frames based on steam/water flow expansion to conditions in the room space at constant enthalpy. The temperature in the room space rises to approximately the steam temperature consistent with isenthalpic expansion.

This method, although not in strict conformance with NUREG-0588 criteria, does provide the gross maximum temperature for the area. Our position is that the temperatures established bound any that would result from a more sophisticated analysis. Further, the methods prescribed in Appendix A are geared to analysis of in-containment conditions.

Item 2 - Qualification Methods

The review was conducted in accordance with noted requirements as applicable. In the course of the review, items which did not meet some of the requirements were noted as outstanding issues in the original qualification summary report. These included separate effects instead of sequential testing, and less than one hour proven operability after completion of the safety function. These were noted in our justifications in the original report as outstanding and under review. In this supplemental information we have completed our review and find that these items do not pose a safety problem at Salem and that the testing performed and time frames involved are adequate to determine qualification as noted in the "Justifications" section of the supplemental report.

Item 3 - Margins

The review considered margins in the evaluation process. In the report, devices which varied from the requirements (one hour operability demonstrated for short term required operation) were noted as outstanding issues in the original report. Justifications for acceptability of lesser margins are provided.

Item 4 - Aging

The review will be conducted in accordance with this section. Further information is contained in the justifications.

Item 5 - Documentation

Our review has been in compliance with this item. An outstanding issue was identified if documentation for qualification was not in our possession for certain items. Vendors and other organizations were contacted to provide documentation to support their statements in catalogs and letters. A review of any supporting documentation has been completed as described in Section X. Additional information on this topic for the appropriate devices is provided in the "Justifications" section of the report.

IX. QUALITY ASSURANCE ASPECTS

IX. Quality Assurance Aspects

The review of the Salem design for compliance with NUREG-0588 was performed in accordance with the requirements of existing Engineering Department procedures which address the design input and design verification aspects of the QA program.

The contents of this information submittal has been incorporated in a design analysis document (CD-M-93). This document will serve as a record of the methods used in the review for compliance with NUREG-0588. It will also serve as a base-line record document for use in any future plant design changes which either generate new qualified equipment records, or which change existing equipment.

The work methods described in CD-M-93 are summarized in the following 14 specific activities:

1. Identify all major components (transmitters, pumps, valves, solenoids, etc.) for shutdown following postulated accidents from FSAR, design requirements and plant emergency instructions (only items external to control complex - control room, relay room and switchgear rooms).

2. Determine all associated equipment (cables, penetrations, panels, motor control centers, junction boxes, terminal blocks/splices) through review of drawings necessary for performance of functions by major components.

3. Prepare forms for NRC submittal of list of equipment required to function to mitigate consequences of postulated accidents. This list is to include major components and associated equipment and specific identifications.

4. Mark up arrangement drawings showing location of major components and selected associated quipment (except cables) from previous lists.

5. Show on the special arrangement drawings the high energy line break location zones and the process lines postulated to break in those areas. Information can be gathered from the HEBA Study done previously.

6. Show on the special arrangement drawings the radiation doses following postulated accidents in the areas that equipment have been located. The time duration (100, 120 days, etc.) for the dose calculations should be indicated. We will utilize TMI source terms.

7. Review the special arrangement drawings to determine which equipment must operate in postulated adverse environments from high energy line breaks.

8. Service profiles (temperature, pressure) must be generated for areas where equipment identified in activity 7 is located.

9. Prepare forms for NRC submittal of written qualification data for items identified in Activity 7.

10. Determine material composition of items identified to operate in radiation zones following a postulated accident.

11. Perform Evaluation of Documentation Data per 79-01B Requirements. Also determine aging problems by comparing material composition (Activity 10) with NRC list of susceptible materials to radiation degradation and radiation dose exposure from Activity 6.

12. Determine design changes/modifications needs and whether any reportable items (may occur at any activity) are discovered.

13. Prepare package for NRC submittal of results from Evaluation/Aging review. This completes effort on 79-01B.

14. Participate in audit of installation/documentation of equipment reviewed in Bulletin 79-01B by NRC.

Subsequent to a September 8 and 9, 1980 meeting, the following questions were generated by the NRC staff:

"We have reviewed your response to our findings resulting from our visit to your facilities on September 8 and 9, 1980 regarding the application of QA controls to the preparation of the PSE&G response to NUREG-0588 concerning the environmental qualification of Class 1E equipment. We find your response transmitted by letter dated September 18, 1980 to require further clarification to permit us to prepare a Safety Evaluation Report supplement. Please provide the following information.

1. Describe the specific QA/QC controls/procedures applied in the preparation of the response to NUREG-0588. For example, has the acceptability of test reports been determined and the results of the determination independently verified? Have necessary calculations (and computer programs, if used) been independently verified? Has the work been audited by the QA organization? Has corrective action been taken to correct nonconformance, etc.?

2. Verify that the QA/QC controls described in 1 have been (and will be) applied to all work performed in response to NUREG-0588 including the work performed prior to NRC staff review of September 8 and 9, 1980. Identify all work which has not had the controls described in 1, above, applied."

Responses

1. The specific QA/QC controls and procedures used during the initial preparation of the NUREG-0588 response consisted of the design input and verification requirements contained within the PSE&G Engineering Department Organization and Design Procedures (EDODP) manual. This manual prescribes requirements for engineering activities related to plant safety and is in conformance with USNRC Regulatory Guide 1.64. The EDODP manual governs all safety-related engineering activities and is one of the complementing documents of the PSE&G Quality Assurance program.

   The fourteen specific work activities previously described were subject to the procedural requirements specified to the extent that those activities involved the generation of input data and calculations. The actual requirements are applicable to the example activities cited in the information request (#1).

   This effort is subject to a periodic review by our Quality Assurance Department as part of their overall audit pursuant to NUREG-0588 compliance. The overall QA audit consists of selective examinations and verifications of prescribed NUREG-0588 activities including respective documentation requirements and the establishment of a "central file" for equipment qualification records. Areas previously identified as requiring corrective action as well as those identified through QA audit will be reviewed by QAD to ascertain if effective corrective action is proposed and

implemented. It is anticipated that this audit will commence by December 1, 1980.

2. Portions of the work activities performed prior to the September 8-9, 1980 "mini-audit" by the NRR staff were found to be completed in a manner whereby some of the required controls were inadvertently omitted. These activities have been reviewed and corrected where possible or justification is available.

   The major effort has been a "re-certification" of vendor qualification documentation and the development/application of acceptance criteria, failure criteria, and margins for the equipment qualification as explained in Section X of this report.

   All current work presented in this report was performed in compliance with the appropriate QA/QC requirements as previously described. All future work pertinent to NUREG-0588 will be accomplished using the methodology and controls which have been used in preparation of this report.

X. REVIEW OF VENDOR QUALIFICATION REPORTS

X. REVIEW OF VENDOR QUALIFICATION REPORTS

The qualification documentation referenced in Section V of the Salem Environmental Qualification Review Report was reviewed for applicability to Salem. An evaluation was performed to determine that the available documentation was adequate to demonstrate that the equipment would perform its safety functions when exposed to harsh environmental conditions. The following is a summary of the methodology employed in the review:

Each qualification report used to document the acceptability of devices used at Salem was reviewed against specified criteria specifically generated for this task. This was divided into a review of fundamental requirements and functional requirements.

The fundamental requirements such as adequate identification of test specimens, test methods, operability and monitoring during test, establishment of test plan, etc. were reviewed to determine if the report was applicable.

The functional requirements addressed the test results and comparison to requirements for devices in use at Salem as to safety function, accident operating time, temperature, pressure, radiation, installation, etc. Anomalies noted in the test report were addressed as appropriate for Salem. The review is documented in an evaluation report covering the points necessary to demonstrate adequate qualification.

Further details of the qualification review process are described below.

Acceptance Criteria: The basic criterion is that the equipment performance during the test meet or exceed the performance requirements of Salem. The evaluation review demonstrates this. Any deviations from requirements are justified by additional test data, analysis or appropriate correspondence. Deviations which could not be adequately addressed are considered as outstanding items. The evaluation report specification/test comparison serves as the basis for information contained in the "Qualification Data Evaluation Form" in Section V.

Each piece of equipment has its own service requirements which serve as the baseline for acceptance. Anomalies noted during the test are evaluated to determine that the test results used are not invalidated by the test anomalies.

Failure Criteria: Equipment which fails to perform the required functions because of exposure to harsh environments is considered to be unsuitable for use. Evaluation of all failures or anomalies is made to determine whether the failed condition is a direct result of the harsh environment or due to test method, installation or other phenomenon not associated with the harsh environments specified for Salem. The fact that a failure was encountered, or an anomaly noted, does not necessarily invalidate the test results unless it is attributable to the harsh accident environment. 2 2

The evaluation report addresses failures and anomalies in the test to determine equipment acceptance on this basis. 2

Margins: The comparison of the test parameters with respect to the required performance criteria considered margins to judge the acceptability of the test results. The margins specified in IEEE323-1974 served only as a guide. Many tests were conducted prior to or separate from the requirements of IEEE323-1974. The evaluation process addressed this factor to assure that the test results are conservative with respect to the required conditions. The required operating parameters should be enveloped by the test results. Tests conducted to more severe conditions based on temperature, times, pressures, radiation and installation as compared to Salem were considered to be conservative based on the fact that the Salem environmental profiles are also conservative. Deviations from specified requirements are addressed in the evaluation report as appropriate. Acceptability of the equipment is based on the functions to be performed and its complexity. Justifications are provided for devices performing short term safety functions for which a one hour operating duration is not met. Consideration was given to maximum time for safety function, equipment failure afterwards and post accident operations.

The above information was developed specifically to address equipment and associated qualification documentation purchased and installed under the license commitments/conditions of Salem and NRC/industry requirements imposed on nuclear power plants committed to IEEE323-1971. We believe that the above described review process is appropriate for NUREG-0588 Category II plants, and Regulatory Guide 79-01B.

SALEM GENERATING STATION
UNITS 1 AND 2
AGING EVALUATION PROGRAM

In accordance with the requirements of NUREG-0588 (category II, item 4) and Bulletin 79-01B (item 7), PSE&G has established an aging evaluation program for electrical and controls equipment which are necessary for the mitigation of the effects of accidents and are located in a harsh environment. Wyle Laboratories, Inc. of Huntsville, Alabama has been retained to assist in this evaluation for Salem.

The aging evaluation program was limited to equipment for which adequate qualification documentation exists to demonstrate equipment operability in an accident environment. Those items which have inadequate documentation and/or are being replaced with qualified equipment by June 30, 1982 were not evaluated. The justification bases of section VII of the report provide adequate information on the interim measures taken to assure plant safety is maintained. The replacement equipment will include aging considerations as part of the qualification documentation.

The aging evaluation program attempted to determine an operating life of the equipment including any special maintenance requirements which would assure that the device would operate properly when exposed to a harsh accident environment. The operating life determination considers the normal conditions for the device such as, ambient temperatures, radiation exposure, cyclical operation, device operating temperatures, etc. In the course of this aging evaluation two concepts are considered, "qualified life" and "expected life".

"Qualified life" is determined directly from the qualification testing when the device has been preaged by an accelerated aging simulation prior to undergoing an accident environment simulation test. The normal equivalent operating life is determined from the accelerated aging using Arrhenius methods. This time span is considered the "qualified life".

Many qualification tests performed in accordance with IEEE 323-1971 requirements did not test preaged devices. For these cases, the aging evaluation resulted in an "expected life" based on an evaluation of material susceptibility to degradation. Such materials may require periodic replacement to assure that the device operates properly when exposed to a harsh accident environment. "Expected life is determined from existing data on known component/material degradation from a variety of sources. It is the time a device can operate under normal conditions without suffering degradation which would prevent it from performing its function. This analysis also uses Arrhenius methods based on an acceptable level of degradation. Since "expected life" is not directly correlated to the accident environment test, it is used to demonstrate that a device will not degrade during normal conditions such that it could not operate in an accident environment. A bench mark "expected life" of 120 years is used to assure that a 40 year service life is reasonable. The "expected life" of a device is based on the least "expected life" of the components/materials used in the device.

The aging evaluation program was performed for Salem using the methods described. The results of the evaluations completed thus far are included in the revised Qualification Data Evaluation Forms of section V of the report.

As a result of the program, some special maintenance practices were identified concerning replacement of gaskets in limit switches and coils/elastomers in solenoid valves at specified intervals. This information is also included in the evaluation forms and will be factored into the Salem maintenance program.

In addition to the special maintenance items identified through the aging evaluation program, many devices presently have a preventative maintenance schedule for the replacement of lubricants which is also noted in the evaluation forms. Periodic testing of the equipment in accordance with Tech Spec surveillance requirements is also part of the maintenance effort to assure the proper working order of said devices.

Although the aging evaluation program was established specifically for the environmental qualification review effort, PSE&G will remain aware of continuing efforts in the industry by the Westinghouse PWR Owners Group, BWR Owners Group and EPRI activities in the area of equipment qualification. In addition as further information is received from manufacturer's, NRC Bulletins and Circulars, licensee event reports and new equipment qualification tests, it will be examined to determine effects on existing conclusions regarding installed equipment at Salem.

PSE&G considers this matter to be an on-going effort and not strictly for the NUREG-0588 and Bulletin 79-01B reviews.

SALEM GENERATING STATION

UNITS 1 AND 2

DOCKET NOS. 50-272 AND 50-311

ENVIRONMENTAL QUALIFICATION REVIEW REPORT

VOLUME 2

(NON-PROPRIETARY VERSION)

December 1, 1980

Rev. 1 - 12/1/80
Rev. 2 - 1/16/81

IV. MASTER LIST OF COMPONENTS LOCATED IN A HARSH ENVIRONMENT

MASTER LIST OF EQUIPMENT

System Name	Page No.
Reactor Coolant	1-17
Pressurizer	18-39
Main Steam	40-109
Main Feedwater	110-111
Auxiliary Feedwater	112-117
Charging and Letdown	118-131
Safety Injection	132-149
Residual Heat Removal	150-182
Containment Spray	183-198
Component Cooling	199-203
Containment Isolation	204-299
Containment Ventilation	300-326
Combustible Gas Controls	327-333
Containment Parameters	334-399
Miscellaneous	400-455
Accumulators	456-474

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT SHEET 1 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
TA0040 (TE-410A)	#11 RC LOOP HOT LEG NARROW RANGE TEMP.	RESISTANCE TEMPERATURE DETECTOR - RTD ROSEMOUNT [ ] A,C	CONTAINMENT	MSLB 350°F 42.8 PSIG < 5X10⁷ R	PAGE 1	BASIS 1	
TA0041 (TE-411A)	#11						
TA0070 (TE-420A)	#12						
TA0071 (TE-421A)	#12						
TA0060 (TE-430A)	#13						
TA0061 (TE-431A)	#13						
TA0050 (TE-440A)	#14						
TA0051 (TE-441A)	#14						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT SHEET 2 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S)	CONTAINMENT	MSLB 350°F 42.8 PSIG <5X10⁷R	PAGE 64	NONE	
JN 620 (UNIT 1)	TA0040/1RC23P-AQ	PSE&G DESIGN WITH					
JN 628 (UNIT 2)	TA0041/1RC21P-AQ	BUCHANAN BLOCK(S) MODEL 2B112 N					
JN 622 (UNIT 1)	TA0070/1RC80P-BQ						
JN 630 (UNIT 2)	TA0071/1RC78P-BQ						
JN 624 (UNIT 1)	TA0060/1RC117P-CQ						
JN 632 (UNIT 2)	TA0061/1RC115P-CQ						
JN 626 (UNIT 1)	TA0050/1RC152P-DQ						
JN 634 (UNIT 2)	TA0051/1RC150P-DQ						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT

SHEET 3 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENTS	INSTRUMENTATION CABLE FROM GENERIC GROUPINGS	CONTAINMENT	MSLB 350°F 42.8 PSIG 5×10^7R	PAGES 67 THROUGH 73		
1RC23P-AQ	TA0040					BASIS #1	
1RC23-AQ	TA0040		ELEC. PENET. & OTHERS	N/A			CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1RC21P-AQ	TA0041						
1RC21-AQ	TA0041						
1RC80P-BQ	TA0070						
1RC80-BQ	TA0070						
1RC78P-BQ	TA0071						
1RC78-BQ	TA0071						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT SHEET 4 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
IRC117P-CQ	SIGNAL WIRE FOR INSTRUMENTS TA 0060	INSTRUMENTATION CABLE FROM GENERIC GROUPINGS	CONTAINMENT	MSLB 350°F 42.8 PSIG $< 5 \times 10^7$ R	PAGES 67 THROUGH 73	BASIS #1	
IRC117-CQ	TA 0060		ELEC. PENET & OTHERS	N/A			CABLING QUALIFIED TO WORST CASE ENVIRONMENT
IRC115P-CQ	TA 0061						
IRC115-CQ	TA 0061						
IRC152P-DQ	TA 0050						
IRC152-DQ	TA 0050						
IRC150P-DQ	TA 0051						
IRC150-DQ	TA 0051						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM Reactor Coolant

SHEET 5 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
TA 2437 (TE-410B)	#11 RC Loop Cold Leg Narrow Range Temp.	Resistance Temperature Detector - RTD Rosemount E $\frac{3}{A,C}$	Containment	MSLB 350°F 42.8 PSIG 5×10^7 R	Page 1	Basis 1	
TA 2438 (TE-411B)	#11						
TA 2440 (TE-420B)	#12						
TA 2441 (TE-421B)	#12						
TA 2443 (TE-430B)	#13						
TA 2444 (TE-431B)	#13						
TA 2446 (TE-440B)	#14						
TA 2447 (TE-441B)	#14						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT

SHEET 6 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTION	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE & G DESIGN WITH BUCHANAN BLOCK(S) MODEL 2B112N	CONTAINMENT	MSLB 350°F 42.8 PSIG <5X10³R	PAGE 64	NONE	
JN621 (UNIT 1) JN629 (UNIT 2)	TA2437/1RC24P-AQ TA2438/1RC22P-AQ						
JN623 (UNIT 1) JN631 (UNIT 2)	TA2440/1RC81P-BQ TA2441/1RC79P-BQ						
JN625 (UNIT 1) JN633 (UNIT 2)	TA2443/1RC118P-CQ TA2444/1RC116P-CQ						
JN627 (UNIT 1) JN635 (UNIT 2)	TA2446/1RC153P-DQ TA2447/1R151P-DQ						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT SHEET 7 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENTS	INSTRUMENTATION CABLE FROM GENERIC GROUPINGS	CONTAINMENT	MSLB 350°F 42.8 PSIG <5X10⁷R	PAGES 67 THROUGH 73	BASIS #1	
1RC24P-AQ	TA 2437						
1RC24-AQ	TA 2437		ELEC. PENT. & OTHERS	N/A			CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1RC22P-AQ	TA 2438						
1RC22-AQ	TA 2438						
1RC81P-BQ	TA 2440						
1RC81-BQ	TA 2440						
1RC79P-BQ	TA 2441						
1RC79-BQ	TA 2441						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT

SHEET 8 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENTS	INSTRUMENTATION CABLE FROM GENERIC GROUPINGS	CONTAINMENT	MSLB 350°F 42.8 PSIG 5×10^7 R	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1RC118P-CQ	TA 2443						
1RC118-CQ	TA 2443		ELEC. PENET. & OTHERS	N/A			
1RC116P-CQ	TA 2444						
1RC116-CQ	TA 2444						
1RC153P-DQ	TA 2446						
1RC153-DQ	TA 2446						
1RC151P-DQ	TA 2447						
1RC151-DQ	TA 2447						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT

SHEET 9 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
TA 0043 (TE-413A)	#11 RC LOOP HOT LEG WIDE RANGE TEMP.	RESISTANCE TEMP. DETECTOR - RTD ROSEMOUNT [ ]A,C	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/428 A,C <5X10⁷R	PAGE 2	NONE	
TA 0073 (TE-423A)	#12						
TA 0063 (TE433A)	#13						
TA 0053 (TE443A)	#14						
TA 2757 (TE 413B)	#11 RC LOOP COLD LEG WIDE RANGE TEMP.						
TA 2758 (TE 423B)	#12						
TA 2759 (TE 433B)	#13						
TA-2760 (TE 443B)	#14						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT

SHEET 10 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTION	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S)	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG	PAGE 64	NONE	
JS 615 (UNIT 1) JS 662 (UNIT 2)	TA 0043/IRC 19 P-HQ	PSE&G DESIGN WITH BUCHANAN BLOCK (S) MODEL 2B112N		<5X10⁷R			
JS 616 (UNIT 1) JS 664 (UNIT 2)	TA 0073/IRC 76P-EQ						
JS 617 (UNIT 1) JS 665 (UNIT 2)	TA 0063/IRC 113P-EQ						
JS 621 (UNIT 1) JS 667 (UNIT 2)	TA 0053/IRC 148BGQ						
JS 609 (UNIT 1) JS 661 (UNIT 2)	TA 2757/IRC 18P-HQ						
JS 611 (UNIT 1) JS 663 (UNIT 2)	TA 2758/IRC 75P-EQ						
JS 612 (UNIT 1) JS 666 (UNIT 2)	TA 2759/IRC 112P-EQ						
JS 614 (UNIT 1) JS 668 (UNIT 2)	TA 2760/IRC 147P-GQ						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT

SHEET 11 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENT	INSTRUMENTATION CABLE FROM GENERIC GROUPINGS	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $<5\times10^7$ R	PAGES 67 THROUGH 73	BASIS #1	
1RC19P-HQ	TA0043						
1RC19-HQ	TA 0043		ELEC. PENET. & OTHERS	N/A			CABLING QUALIFIED TO WORSE CASE ENVIRONMENT
1RC76P-EQ	TA 0073						
1RC76-EQ	TA 0073						
1RC113P-FQ	TA0063						
1RC113-FQ	TA0063						
1RC148P-GQ	TA0053						
1RC148-GQ	TA 0053						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT

SHEET 12 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1RC18P-HQ	SIGNAL WIRE FOR INSTRUMENT TA2757	INSTRUMENTATION CABLE FROM GENERIC GROUPINGS	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG 5×10^7 R	PAGES 67 THROUGH 73	BASIS #1	
1RC19-HQ	TA 2757		ELEC. PENET. & OTHERS	N/A			CABLING QUALIFIED TO WORSE CASE ENVIRONMENT
1RC75P-EQ	TA 2758						
1RC75-EQ	TA 2758						
1RC112P-FQ	TA 2759						
1RC112-FQ	TA 2759						
1RC147P-GQ	TA 2760						
1RC147-GQ	TA 2760						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT SHEET 13 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PA0039 (PT-403)	REACTOR COOLANT SYSTEM WIDE RANGE PRESSURE	PRESSURE TRANSMITTER BARTON [ ] A.C UNIT 1 - LOT 2	CONTAINMENT (INSTR. PANEL)	LOCA / MSLB 271/350°F. 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 3	BASIS #2	AMBIENT CONDITIONS DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL.
PA 8088 (PT-405)		UNIT 2 - LOT 1			PAGE 4	BASIS #2	

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT

SHEET 14 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 241 (UNIT 1)	ENCLOSURE FOR PA 0039 AND ELECTRICAL CONNECTION PA 0039/IRC 27P-BQ	4 BAY INSTRUMENT PANEL PSE&G DESIGN AND CABLE SPLICE RAYCHEM WCSF-N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG <6X10⁷R	PAGE 62 AND 65	NONE	
PANEL 237 (UNIT 1)	ENCLOSURE FOR PA 8088 AND ELECTRICAL CONNECTION PA8088/IRC213P-AQ	SINGLE BAY INSTRUMENT PANEL PSE&G DESIGN AND CABLE SPLICE RAYCHEM WCSF-N					

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT

SHEET 15 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 797-A (UNIT 2) PANEL 797-B (UNIT 2)	ENCLOSURE FOR PA0039 AND ELECTRICAL CONN. PA0039/2RC27P-BQ ENCLOSURE FOR PA8088 AND ELECTRICAL CONN. PA8088/2RC213P-AQ	NEMA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN CABLE SPLICE RAYCHEM WCSF-N	CONTAINMENT	LOCA / MSLB 271/350°F 43.2/42.8 PSIG $\leq 5 \times 10^7$ R	PAGE 62 AND PAGE 65	NONE NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT SHEET 16 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1RC27P-BQ	SIGNAL WIRE FOR INSTRUMENTS PA0039	INSTRUMENTATION CABLE FROM GENERIC GROUPINGS	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG. $< 5 \times 10^7$ R	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1RC27-BQ	PA0039		ELEC. PENET. & OTHERS	N/A			
1RC213P-AQ	PA8088						
1RC213-AQ	PA8088						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM REACTOR COOLANT

SHEET 17 OF 17

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES OF:	CONTAINMENT ELECTRICAL PENETRATION	CONTAINMENT ELEC. PENET.	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-62	#11 RC LOOP RTD'S AND PA 8808	CONAX CANISTER TYPE	↓	↓	↓	↓	↓
PENET. 1-61	#12 RC LOOP RTD'S AND PA 0039	↓	↓	↓	↓	↓	↓
PENET. 1-60	#13 RC LOOP RTD'S	↓	↓	↓	↓	↓	↓
PENET. 1-29	#14 RC LOOP RTD'S	↓	↓	↓	↓	↓	↓

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER

SHEET 1 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
LA-0086 (LT-459)	PRESSURIZER LEVEL	BARTON [ ] A,C DIFFERENTIAL PRESSURE TRANSMITTER UNIT 1-LOT 2 UNIT 2-LOT 1	CONTAINMENT 100' (INSTR. PNL.)	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R			
LA-0087 (LT-460)					PAGE 5 PAGE 6	BASIS #2 BASIS #2	
LA-0088 (LT-461)							
PA-0082 (PT-455)	PRESSURIZER PRESSURE	ROSEMOUNT 1153AGA PRESSURE TRANSMITTER			PAGE 7	BASIS #1	
PA-0083 (PT-456)							
PA-0084 (PT-457)							
PA-0097 (PT-474)							Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER

SHEET 2 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 335	ENCLOSURE FOR LA-0086 LA-0087 LA-0088 PA-0082 PA-0083 PA-0084 PA-0097	4 BAY INSTRUMENT PANEL PSE&G DESIGN	CONTAINMENT 100'	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 62	NONE	
	ELECTRICAL CONNECTIONS FOR NOTED INSTRUMENT AND ASSOCIATED CABLE	SPLICE RAYCHEM WCSF-N			PAGE 65		
	LA-0086/1PRZ67P-AQ LA-0087/1PRZ69P-BQ LA-0088/1PRZ73P-CQ PA-0082/1PRZ68P-AQ PA-0083/1PRZ70P-BQ PA-0084/1PRZ72P-CQ PA-0097/1PRZ75P-DQ						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER SHEET 3 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR NOTED INSTRUMENT	CABLE FROM GENERIC GROUPINGS	CONTAINMENT AND OTHER AREAS	LOCA / MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1PRZ67P-AQ 1PRZ67-AQ	LA 0086						
1PRZ69P-BQ 1PRZ69-BQ	LA 0087						
1PRZ73P-CQ 1PRZ73-CQ	LA 0088						
1PRZ68P-AQ 1PRZ68-AQ	PA 0082						
1PRZ70P-BQ 1PRZ70-BQ	PA 0083						
1PRZ72P-CQ 1PRZ72-CQ	PA 0084						
1PRZ75P-DQ 1PRZ75-DQ	PA 0097						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER

SHEET 4 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES OF:	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PENET	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $\leq 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENETRATION 1-59	LA 0088 PA 0084						
PENETRATION 1-63	LA 0087 PA 0083						
PENETRATION 1-65	LA 0086 PA 0082						
PENETRATION 1-7	PA 0097						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER SHEET 5 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	PILOT VALVE CONTROL FOR						
SV-759	1PR1 PRESSURIZER OUTLET TO PRESSURIZER RELIEF TANK	ASCO NP8316A74E	CONTAINMENT 130' (LOCAL)	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 60	NONE	
SV-760	1PR2 PRESSURIZER OUTLET TO PRESSURIZER RELIEF TANK						
SV-1198 (UNIT 1 ONLY)	AIR SUPPLY TO PORV 1PR1	ASCO TYPE 8210D2			PAGE 8	BASIS #3	
SV-1199 (UNIT 1 ONLY)	AIR SUPPLY TO PORV 1PR2						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER SHEET 6 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SOLENOID VALVES FOR						
2PR47 (UNIT 2 ONLY)	PRESSURIZER POWER OPERATED RELIEF	MAROTTA MV225C	CONTAINMENT 130' (LOCAL)	LOCA/MSLB 271/350°F 43.2/42.8 PSIG <5x10⁷R	PAGE 9	BASIS #3	
2PR48 (UNIT 2 ONLY)	PRESSURIZER POWER OPERATED RELIEF						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER

SHEET 7 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL WIRES FOR SOLENOID VALVES:	CABLE FROM GENERIC GROUPINGS	CONTAINMENT AND OTHER AREAS	LOCA/MSLB 271/350°F 43.2/428 PSIG $<6 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1PRZ55P-AT	SV-1198 (UNIT 1 ONLY)						
1PRZ55-AT	SV-759 AND 2PR47 (UNIT 2 ONLY)						
1PRZ56P-T	SV-1199 (UNIT 1 ONLY)						
1PRZ56-T	SV-760 AND 2PR48 (UNIT 2 ONLY)						
2PRZ55PA-AT	2PR47 (UNIT 2 ONLY)						
2PRZ56PA-BT	2PR48 (UNIT 2 ONLY)						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER

SHEET 8 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	MOTOR OPERATED VALVES						
1PR6	PRESSURIZER RELIEF STOP VALVE	LIMITORQUE MODEL - SMB	CONTAINMENT 130'	LOCA / MSLB 271 / 350°F 43.2 / 42.8 PSIG $<5 \times 10^7$ R	PAGE 63	BASIS #1	
1PR7	PRESSURIZER RELIEF STOP VALVE	↓	↓	↓	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER

SHEET 9 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER/CONTROL FOR MOTOR OPER. VALVES						
1A EAST MOTOR CONTROL CENTER	1PR6	GENERAL ELECTRIC 7700 LINE	ELEC. PEN. 78'	RECIRC L10⁵R	PAGE 74	BASIS #7	
1B EAST MOTOR CONTROL CENTER	1PA7	↓	↓	↓	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER SHEET 10 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER CABLES FOR VALVE MOTORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT AND ELEC. PEN.	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $<5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YACP-A 1A3YAC-A	1PR6						
1B3YAJP-B 1B3YAJ-B	1PR7						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER

SHEET 12 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
LIMIT SWITCHES FOR VALVES	CONTROL / POSITION INDICATION FOR VALVES						
1PR1 1PR2	PRESSURIZER RELIEF VALVES	NAMCO EA-180	CONTAINMENT 130' (LOCAL)	LOCA/MSLB 271/350°F 43.2/42.8 PSIG.	PAGE 10	BASIS #4	
1PR3 1PR4 1PR5	PRESSURIZER SAFETY VALVES	NAMCO EA-180	↓	$<5\times10^7$ R ↓	PAGE 61	NONE	
1PR6 1PR7	PRESSURIZER RELIEF STOP VALVES	LIMITORQUE - SMB (LIMIT SWITCH INTERNAL TO MOTOR)			PAGE 63	BASIS #1	
2PR47 2PR48 (UNIT 2 ONLY)	PRESSURIZER RELIEF VALVES	MAROTTA MV225C (LIMIT SWITCH IN VALVE ASSEMBLY)			PAGE 9	BASIS #4	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER SHEET 11 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	LIMIT SWITCH WIRES FOR VALVES	CABLE FROM GENERIC GROUPINGS	CONTAINMENT AND OTHER AREAS	LOCA / MSLB 271°/350°F 43.2/42.8PSIG $< 5 \times 10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1PRZ55P-AT 1PRZ55-AT	1PR1						
1PRZ56P-BT 1PRZ56-BT	1PR2						
1A3YAC2P-AT 1A3YAC2-AT	1PR6						
1B3YAJ2P-BT 1B3YAJ2-BT	1PR7						
1PRZ160A-HT 1PRZ160P-HT 1PRZ160-HT	1PR3 1PR4 1PR5						
2PRZ55PA-AT 2PRZ55P-AT 2PRZ55-AT (UNIT 2 ONLY)	2PR47						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER SHEET 13 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
2PRZ56PA-BT 2PRZ56P -BT 2PRZ56 -BT (UNIT 2 ONLY)	LIMIT SWITCH WIRES FOR VALVES 2PR48	CABLE FROM GENERIC GROUPINGS	CONTAINMENT AND OTHER AREAS	LOCA / MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER SHEET 14 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES OF:	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT AND ELEC. PEN.	LOCA / MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENETRATION 1-8	1 PR 2 2 PR 48 (UNIT 2 ONLY) 1 PR 7 SV-1199 (UNIT 1 ONLY)						
PENETRATION 1-14	1 PR 1 1 PR 3 1 PR 4 1 PR 5 1 PR 6 2 PR 47 (UNIT 2 ONLY) SV-1198 (UNIT 1 ONLY)						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER SHEET 15 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	TERMINAL BOXES FOR VALVE CONTROL AND INDICATION CABLES						
JN-139 (UNIT 1) JN-147 (UNIT 2)	1 PR 2 SV-1199 (UNIT 1 ONLY) 2 PR 48 (UNIT 2 ONLY)	BUCHANAN TERMINAL BLOCK MODEL 2B112N	CONTAINMENT ELEV. 130' TO 160'	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $<5\times10^7$ R	PAGE C4	NONE	
JN-120 (UNIT 1) JN-146 (UNIT 2)	1 PR 1 SV-1198 (UNIT 1 ONLY) 2 PR 47 (UNIT 2 ONLY)						
JN-839 (UNIT 2)	2 PR 47						
JN-840 (UNIT 2)	2 PR 48						
JX4 (UNIT 1) JX39 (UNIT 2)	1 PR 3 1 PR 4 1 PR 5						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER

SHEET 16 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER

SHEET 17 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFI-CATION	OUTSTANDING ITEMS	REMARKS
		INTENTIONALLY	LEFT	BLANK			

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER

SHEET 18 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFI-CATION	OUTSTANDING ITEMS	REMARKS
		INTENTIONALLY	LEFT	BLANK			

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER

SHEET 19 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
		INTENTIONALLY	LEFT	BLANK			

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER

SHEET 20 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
		INTENTIONALLY	LEFT	BLANK			

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER SHEET 21 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFI-CATION	OUTSTANDING ITEMS	REMARKS
		INTENTIONALLY	LEFT	BLANK			

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM PRESSURIZER

SHEET 22 OF 22

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFI-CATION	OUTSTANDING ITEMS	REMARKS
		INTENTIONALLY	LEFT	BLANK			

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 1 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
FA0101 (FT-513) FA0687 (FT-512) FA0104 (FT-523) FA0690 (FT-522) FA0102 (FT-533) FA0688 (FT-532) FA0103 (FT-543) FA0689 (FT-542)	#11 STM. GEN. STEAM FLOW #11 #12 #12 #13 #13 #14 #14	DIFFERENTIAL PRESSURE TRANSMITTER ROSEMOUNT 1153AHA	CONTAINMENT (INSTR. PANEL)	MSLB 350°F 42.8 PSIG. $<5\times10^{7}$R	PAGE 11	BASIS #1	AMBIENT CONDITIONS DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 2 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 445-B	ENCLOSURE FOR FA0101 AND ELECTRICAL CONNECTION FA0101/1MS64P-BQ	NEMA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN AND CABLE SPLICE RAYCHEM WCSF-N	CONTAINMENT	MSLB 350°F 42.8 PSIG. $<5\times10^7$R	PAGE 62 AND PAGE 65	NONE	
PANEL 445-A	ENCLOSURE FOR FA0687 AND ELECTRICAL CONNECTION FA0687/1MS59P-AQ						
PANEL 445-D	ENCLOSURE FOR FA0104 AND ELECTRICAL CONNECTION FA0104/1MS98P-BQ						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 3 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 445-C	ENCLOSURE FOR FA0690 AND ELECTRICAL CONNECTION FA0690/1M395P-AQ	NEMA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN AND CABLE SPLICE RAYCHEM WCSF-N	CONTAINMENT	MSLB 350°F 42.8 PSIG. $< 5 \times 10^7$ R	PAGE 62 AND PAGE 65	NONE	
PANEL 445-F	ENCLOSURE FOR FA0102 AND ELECTRICAL CONNECTION FA0102/1M5112P-BQ						
PANEL 445-E	ENCLOSURE FOR FA0688 AND ELECTRICAL CONNECTION FA0688/1M5107P-AQ						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 4 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 445-H PANEL 445-G	ENCLOSURE FOR FA0103 AND ELECTRICAL CONNECTION FA0103/1MS124P-BQ ENCLOSURE FOR FA0689 AND ELECTRICAL CONNECTION FA0689/1MS121P-BQ	NEMA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN AND CABLE SPLICE RAYCHEM WCSF-N	CONTAINMENT	MSLB 350°F 42.8 PSIG. $<5\times10^7$ R	PAGE 62 AND PAGE 65	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 5 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENT	INSTRUMENTATION CABLE FROM GENERIC GROUPINGS	CONTAINMENT	MSLB 350°F 42.8 PSIG. $<5\times10^7$R	PAGES 67 THROUGH 73	BASIS #1	
1MS64P-BQ	FA0101						
1MS64-BQ	FA0101		ELECT. PENET. & OTHERS	N/A			CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1MS59P-AQ	FA0687						
1MS59-AQ	FA0687						
1MS98P-BQ	FA0104						
1MS98-BQ	FA0104						
1MS95P-AQ	FA0690						
1MS95-AQ	FA0690						
1MS112P-BQ	FA0102						
1MS112-BQ	FA0102						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 6 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENT	INSTRUMENTATION CABLE FROM GENERIC GROUPINGS	CONTAINMENT	MSLB 350°F 42.8 PSIG. $<5X10^7R$	PAGE 67 THROUGH 73	BASIS #1	
1MS107P-AQ	FA0688						
1MS107-AQ	FA0688		ELECT. PENET. & OTHERS	N/A			CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1MS124P-BQ	FA0103						
1MS124-BQ	FA0103						
1MS121P-AQ	FA0689						
1MS121-AQ	FA0689						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 7 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
LA0005 (LT-517)	#11 STM. GEN. WATER LEVEL NARROW RANGE	DIFFERENTIAL PRESSURE TRANSMITTER BARTON[. .]A.C. UNIT 1 - LOT 2 UNIT 2 - LOT 1	CONTAINMENT (INSTR. PANEL)	LOCA/MSLB 271/350°F 43.2/42.8 PSIG. $< 5X10^7$ R	PAGE 12 PAGE 13	BASIS #2 BASIS #2	AMBIENT CONDITIONS- DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL
LA0006 (LT-518)							
LA0007 (LT-519)							
LA0009 (LT-501)	#11 STM. GEN. WATER LEVEL WIDE RANGE	DIFFERENTIAL PRESSURE TRANSMITTER BARTON 384			PAGE 14	BASIS #5	

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 8 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 444-A	ENCLOSURE FOR LA0005 AND ELECTRICAL CONNECTION LA0005/1FW90P-DQ	NEMA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN AND CABLE SPLICE RAYCHEM WCSF-N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG <5X10^7R	PAGE 62 AND PAGE 65	NONE	
PANEL 444-B	ENCLOSURE FOR LA0006 AND ELECTRICAL CONNECTION LA0006/1FW88P-CQ						
PANEL 444-C	ENCLOSURE FOR LA0007 AND ELECTRICAL CONNECTION LA0007/1FW86P-BQ						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 9 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 448-A	ENCLOSURE FOR LA-0009 AND ELECTRICAL CONNECTION LA-0009/1FW95P-CQ	NEMA 12 INSTRUMENT ENCLOSURE P.S.E&G DESIGN AND TERMINAL BLOCK BUCHANAN MODEL 2B112N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 62 AND PAGE 64	BASIS #14 NONE	PANEL WILL BE MODIFIED TO ACCEPT PRESSURE TRANSIENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 10 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENT	CABLE FROM GENERIC GROUPINGS	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGES 67 THROUGH 73	BASIS #1	
IFW90P-DQ	LA0005		ELEC. PENET. & OTHERS	N/A			CABLING QUALIFIED TO WORST CASE ENVIRONMENT
IFW90-DQ	LA0005						
IFW88P-CQ	LA0006						
IFW88-CQ	LA0006						
IFW86P-BQ	LA0007						
IFW86-BQ	LA0007						
IFW95P-CQ	LA0009						
IFW95-CQ	LA0009						
IFW99-CQ	LA0009						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 11 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
LA 0011 (LT-527)	#12 STEAM GEN. WATER LEVEL NARROW RANGE	DIFFERENTIAL PRESSURE TRANSMITTER BARTON [ ] A,C UNIT 1 – LOT 2 UNIT 2 – LOT 1	CONTAINMENT (INSTR. PANEL)	LOCA/MSLB 271/360°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 12 PAGE 13	BASIS #2 BASIS #2	AMBIENT CONDITIONS. DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL
LA 0012 (LT-528)							
LA 0013 (LT-529)							
LA 0015 (LT-502)	#12 STEAM GEN. WATER LEVEL WIDE RANGE	DIFFERENTIAL PRESSURE TRANSMITTER BARTON 384			PAGE 14	BASIS #5	

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 12 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 444-F	ENCLOSURE FOR LA 0011 AND ELECTRICAL CONNECTION LA0011/1FW111P-DQ	NEMA 12 INSTRUMENT ENCLOSURE P.S.E.&G. DESIGN AND CABLE SPLICE RAYCHEM WCSF-N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $<5 \times 10^7$ R	PAGE 62 AND PAGE 65	NONE	
PANEL 444-E	ENCLOSURE FOR LA 0012 AND ELECTRICAL CONNECTION LA0012/1FW110P-CQ						
PANEL 444-D	ENCLOSURE FOR LA 0013 AND ELECTRICAL CONNECTION LA0013/1FW109P-AQ						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 13 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 448-B	ENCLOSURE FOR LA 0015 AND ELECTRICAL CONNECTION LA 0015/IFW96P-CQ	NEMA 12 INSTRUMENT ENCLOSURE P.S.E. #G DESIGN AND TERMINAL BLOCK BUCHANAN MODEL-2B112N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 62 AND PAGE 64	BASIS #14 NONE	PANEL WILL BE MODIFIED TO ACCEPT PRESSURE TRANSIENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 14 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1FW111P-DQ	SIGNAL WIRE FOR INSTRUMENT LA0011	CABLE FROM GENERIC GROUPINGS	CONTAINMENT	MSLB 271°/350°F 43.2/42.8PSIG $< 5 \times 10^7$ R	PAGES 67 THROUGH 73	BASIS #1	
1FW111-DQ	LA0011		ELECT. PENET. & OTHERS	N/A			CABLING QUALIFIED TO WORSE CASE ENVIRONMENT
1FW110P-CQ	LA0012						
1FW110-CQ	LA0012						
1FW109P-AQ	LA0013						
1FW109-AQ	LA0013						
1FW96P-CQ	LA0015						
1FW96-CQ	LA0015						
1FW99-CQ	LA0015						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 15 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
LA 0017 (LT-537)	#13 STEAM GEN. WATER LEVEL NARROW RANGE	DIFFERENTIAL PRESSURE TRANSMITTER BARTON [ ]A,C UNIT 1 - LOT 2 UNIT 2 - LOT 1	CONTAINMENT (INSTR. PANEL)	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 12 PAGE 13	BASIS #2 BASIS #2	AMBIENT CONDITIONS DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL
LA 0018 (LT-538)							
LA 0019 (LT-539)							
LA 0021 (LT-503)	#13 STEAM GEN. WATER LEVEL WIDE RANGE	DIFFERENTIAL PRESSURE TRANSMITTER BARTON 384			PAGE 14	BASIS #5	

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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 16 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 444-G	ENCLOSURE FOR LA0017 AND ELECTRICAL CONNECTION LA0017/1FW118P-DQ	NEMA 12 INSTRUMENT ENCLOSURE AND CABLE SPLICE RAYCHEM WCSF-N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 62 AND PAGE 65	NONE	
PANEL 444-H	ENCLOSURE FOR LA0018 AND ELECTRICAL CONNECTION LA0018/1FW117P-CQ						
PANEL 444-J	ENCLOSURE FOR LA0019 AND ELECTRICAL CONNECTION LA0019/1FW115P-AQ						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 17 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 448-C	ENCLOSURE FOR LA0021 AND ELECTRICAL CONNECTION LA0021/1FW97A-CQ	NEMA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN AND TERMINAL BLOCK BUCHANAN MODEL 2B112N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 62 PAGE 64	BASIS #14 NONE	PANEL WILL BE MODIFIED TO ACCEPT PRESSURE TRANSIENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 18 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENT	CABLE FROM GENERIC GROUPINGS	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$ R	PAGES 67 THROUGH 73	BASIS #1	
1FW118P-DQ	LA0017						
1FW118-DQ	LA0017		ELEC. PENET. AND OTHERS	N/A			CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1FW117P-CQ	LA0018						
1FW117-CQ	LA0018						
1FW115P-AQ	LA0019						
1FW115-AQ	LA0019						
1FW97P-CQ	LA0021						
1FW97-CQ	LA0021						
1FW99-CQ	LA0021						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 19 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
LA0023 (LT-547)	#4 STEAM GEN. WATER LEVEL NARROW RANGE	DIFFERENTIAL PRESSURE TRANSMITTER BARTON [ ]A,C UNIT 1 - LOT 2 UNIT 2 - LOT 1	CONTAINMENT (INSTR. PANEL)	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 12 PAGE 13	BASIS #2 BASIS #2	AMBIENT CONDITIONS DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL
LA0024 (LT-548) LA0025 (LT-549) LA0027 (LT-504)	#4 STEAM GEN. WATER LEVEL WIDE RANGE	DIFFERENTIAL PRESSURE TRANSMITTER BARTON 384			PAGE 14	BASIS #5	

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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 20 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 444-M	ENCLOSURE FOR LA 0023 AND ELECTRICAL CONNECTION LA0023/1FW126P-DQ	NEMA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN AND CABLE SPLICE RAYCHEM WCSF-N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG <5x10⁷R	PAGE 62 AND PAGE 65	NONE	
PANEL 444-L	ENCLOSURE FOR LA0024 AND ELECTRICAL CONNECTION LA0024/1FW125P-CQ						
PANEL 444-K	ENCLOSURE FOR LA 0025 AND ELECTRICAL CONNECTION LA0025/1FW124P-BQ						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 21 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 448-D	ENCLOSURE FOR LA 0027 AND ELECTRICAL CONNECTION LA0027/1FW98P-EQ	NEMA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN AND TERMINAL BLOCK BUCHANAN MODEL 2B112N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG. $<5\times10^7$ R	PAGE 62 AND PAGE 64	BASIS #14 NONE	PANEL WILL BE MODIFIED TO ACCEPT PRESSURE TRANSIENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM Main Steam

SHEET 22 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1FW126P-DQ	SIGNAL WIRE FOR INSTRUMENT LA0023	CABLE FROM GENERK GROUPINGS	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG <5x10⁷R	PAGES 67 THROUGH 73	BASIS #1	
1FW126-DQ	LA0023		ELEC. PENET. & OTHERS	N/A			CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1FW125P-CQ	LA0024						
1FW125-CQ	LA0024						
1FW124P-BQ	LA0025						
1FW124-BQ	LA0026						
1FW98P-CQ	LA0027						
1FW98-CQ	LA0027						
1FW99-CQ	LA0027						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 23 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
E/P	CONTROL FOR STEAM ATMOSPHERIC RELIEF VALVES	ELECTRIC/PNEUMATIC CONTROLLER		MSLB 320°F 5.8 PSIG $< 10^5$ R	PAGE 15	BASIS #6	PREVIOUSLY ADDRESSED IN LER 79-58
	11MS10	FISCHER-GOVERNOR TYPE 546	INBOARD PEN. (INSTR. PANEL)	↓	↓		
	12MS10	↓	OUTBOARD PEN. (INSTR. PANEL)				
	13MS10		INBOARD PEN. (INSTR. PANEL)				
	14MS10	—	OUTBOARD PEN. (INSTR. PANEL)	—	—		

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 24 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PA0667 (PT-516)	#11 STEAM PRESSURE	PRESSURE TRANSMITTER ROSEMOUNT 1153AGA	INBOARD PEN. (INSTR PANEL)	MSLB 320°F 5.8 PSIG $<10^5$R	PAGE 16	BASIS #1	AMBIENT CONDITIONS DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL
PA0671 (PT-514)	↓	↓	↓	↓	↓	↓	↓
PA0734 (PT-515)	↓	↓	↓	↓	↓	↓	↓
PA8593 (PT-516A)	#11 STEAM ATMOSPHERIC VALVE CONTROL	PRESSURE TRANSMITTER FISCHER-PORTER [ ] A,C	↓	↓	PAGE 17	BASIS #6 BASIS #1	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 25 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 684-A	ENCLOSURE FOR PA0667, PA8593 AND E/P(11MS10) AND ELECTRICAL CONNECTIONS PA0667/1MS68A-DQ PA8593/1MS281-AQ E/P(11MS10)/1MS108A-DQ	NEMA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN AND TERMINAL BLOCK BUCHANAN MODEL 2B112N	INBOARD PEN.	MSLB 320°F 5.8 PSIG $<10^5$R	PAGE 62 AND PAGE 64	NONE	
PANEL 685-A	ENCLOSURE FOR PA0671 AND ELECTRICAL CONNECTION PA0671/1MS58-AQ						
PANEL 686-A	ENCLOSURE FOR PA0734 AND ELECTRICAL CONNECTION PA0734/1MS62-BQ						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 26 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JN-666	ELECTRICAL CONNECTION IMS108A-DQ/IMS108-DQ IMS68A-DQ/IMS68-DQ	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK (S) MODEL 2B112N	INBOARD PEN.	MSLB 320°F 5.8 PSIG $<10^5$ R	PAGE 64	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 27 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENT	CABLE FROM GENERIC GROUPINGS	INBOARD PEN.	MSLB 320°F 5.8 PSIG $<10^5$ R	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1MS68A-DQ	PA0667						
1MS68 -DQ	PA0667						
1MS58-AQ	PA0671						
1MS62-BQ	PA0734						
1MS281-AQ	PA8593						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 28 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PA0670 (PT-526)	#12 STEAM PRESSURE	PRESSURE TRANSMITTER ROSEMOUNT 1153AGA	OUTBOARD PEN (INSTR. PANEL)	MSLB 320°F 5.8 PSIG $\angle 10^5$R	PAGE 16	BASIS #1	AMBIENT CONDITIONS DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL
PA0674 (PT-524)							
PA0736 (PT-525)							
PA8596 (PT-526A)	#12 STEAM ATMOSPHERIC VALVE CONTROL	PRESSURE TRANSMITTER FISHER-PORTER [ ]A,C			PAGE 17	BASIS #6 BASIS #1	

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 29 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 684-B	ENCLOSURE FOR PA0670, PA8596 AND E/P (12MS10) AND ELECTRICAL CONNECTION PA0670/1MS91-CQ PA8596/1MS28GB-BQ E/P(12MS10)1MS94-CQ	NEMA 12 INSTRUMENT ENCLOSURE P.S.E.&G. DESIGN AND TERMINAL BLOCK BUCHANAN MODEL2B/12N	OUTBOARD PEN	MSLB 320°F 5.8 PSIG. <105°R	PAGE 62 AND PAGE 64	NONE	
PANEL 685-B	ENCLOSURE FOR PA0674 AND ELECTRICAL CONNECTION PA0674/1MS88-AQ						
PANEL 686-B	ENCLOSURE FOR PA0736 AND ELECTRICAL CONNECTION PA0736/1MS90-BQ						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 30 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JT-629 (UNIT 1) JT-631 (UNIT 2)	ELECTRICAL CONNECTION IMS2868-BQ/ /IMS2868-BQ	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) R.S.&G. DESIGN WITH BUCHANAN BLOCK(S) MODEL 2811 2N	OUTBOARD PEN	MSLB 320°F 5.8 PSIG. $< 10^5$ R	PAGE 64	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 31 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENT	CABLE FROM GENERIC GROUPINGS	OUTBOARD PEN	MSLB 320°F 5.8 PSIG. $< 10^5$ R	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
IMS91-CQ	PA 0670						
IMS88-AQ	PA 0674						
IMS90-BQ	PA 0736						
IMS286B-BQ	PA 8596						
IMS286A-BQ	PA 8596						
IMS286-BQ	PA 8596						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 32 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PA 0668 (PT-536)	#13 STEAM PRESSURE	PRESSURE TRANSMITTER ROSEMOUNT 1153 AGA	INBOARD PEN (INSTR. PANEL)	MSLB 320°F 5.8 PSIG. $< 10^5$ R	PAGE 16	BASIS #1	AMBIENT CONDITIONS DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL
PA 0672 (PT-534)							
PA 0738 (PT-535)							
PA 8594 (PT-536A)	#13 STEAM ATMOSPHERIC VALVE CONTROL	PRESSURE TRANSMITTER FISCHER-PORTER I/P			PAGE 17	BASIS # 6 BASIS #1	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 33 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 684-C	ENCLOSURE FOR PA0668, PA8594 AND E/P (13MS10) AND ELECTRICAL CONNECTION PA0668/1MS104-CQ PA8594/1MS290-CQ E/P(13MS10)1MS106CQ	NEMA 12 INSTRUMENT ENCLOSURE P.S.E.&G. DESIGN AND TERMINAL BLOCK BUCHANAN MODEL 2B112N	INBOARD PEN	MSLB 320°F 5.8 PSIG $< 10^5$ R	PAGE 62 AND PAGE 64	NONE	
PANEL 685-C	ENCLOSURE FOR PA0672 AND ELECTRICAL CONNECTION PA0672/1MS101-RQ						
PANEL 686-C	ENCLOSURE FOR PA0738 AND ELECTRICAL CONNECTION PA0738/1MS103-BQ						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 34 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENT	CABLE FROM GENERIC GROUPINGS	INBOARD PEN	MSLB 320°F 5.8 PSIG. $< 10^5$ R	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
IMS 104-CQ	PA 0668						
IMS 101-BQ	PA 0672						
IMS 103-BQ	PA 0738						
IMS 290-CQ	PA 8594						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 35 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PA 0669 (PT-546)	#14 STEAM PRESSURE	PRESSURE TRANSMITTER ROSEMOUNT 1153 AGA	OUTBOARD PEN (INSTR. PANEL)	MSLB 320°F 5.2 PSIG. $< 10^5$R	PAGE 16	BASIS #1	AMBIENT CONDITIONS DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL
PA 0673 (PT-544)							
PA 0740 (PT-545)							
PA 8595 (PT-546A)	#14 STEAM ATMOSPHERIC VALVE CONTROL	PRESSURE TRANSMITTER FISHER PORTER [ ]AC			PAGE 17	BASIS # 6 BASIS #1	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 36 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 684-D	ENCLOSURE FOR PA0669, PA8595 AND E/P (14MS10)	NEMA 12 INSTRUMENT ENCLOSURE P3E&G DESIGN	OUTBOARD PEN.	MSLB 320°F 5.8 PSIG $<10^5$ R	PAGE 62	NONE	
	AND	AND			AND		
	ELECTRICAL CONNECTION PA0669/1MS119-DQ PA8595/1MS292B-DQ E/P(14MS10)/1MS120-DQ	TERMINAL BLOCK BUCHANAN MODEL 2B12 N			PAGE 64	NONE	
PANEL 685-D	ENCLOSURE FOR PA0673 AND ELECTRICAL CONNECTION PA0673/1MS115-AQ						
PANEL 686-D	ENCLOSURE FOR PA0740 AND ELECTRICAL CONNECTION PA0740/1MS117-BQ						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 37 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENT	CABLE FROM GENERIC GROUPINGS	OUTBOARD PEN	MSLB 320°F 5.8 PSIG $<10^5$R	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
IMS119-DQ	PA0669						
IMS115-AQ	PA0673						
IMS117-BQ	PA0740						
IMS292B-DQ	PAB595						
IMS292A-DQ	PAB595						
IMS292-DQ	PAB595						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 38 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1MS108A-DQ	CONTROL WIRE FOR E/P FOR VALVE 11MS10	CABLE FROM GENERIC GROUPINGS	INBOARD PEN.	MSLB 320°F 5.8 PSIG $<10^5$ R	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1MS108-DQ	11MS10						
1MS94-CQ	12MS10		OUTBOARD PEN.				
1MS106-CQ	13MS10		INBOARD PEN.				
1MS120-DQ	14MS10		OUTBOARD PEN.				

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 39 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0269	PILOT VALVE CONTROL FOR 11 MS7 #11 STEAM DRAIN ISOLATION	SOLENOID VALVE ASCO HT8321A2(UNIT2) ASCO FT 8321A2 (UNIT 1)	IN BOARD PEN. (INSTR PANEL)	MSLB 320°F 5.8 PSIG $<10^5$R	PAGE 18 (UNIT #2) PAGE 18A (UNIT 1)	BASIS #8-A	AMBIENT CONDITIONS DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL SHORT TERM OPERATION
SV0274	PILOT VALVE CONTROL FOR 11 MS169 #11 STEAM STOP VALVE ISOLATION	ASCO FT8321A4			PAGE 41	BASIS #8-B	
SV0275	PILOT VALVE CONTROL FOR 11 MS171 #11 STEAM STOP VALVE ISOLATION						
SV0587	PILOT VALVE CONTROL FOR 11 MS18 #11 STEAM WARM UP ISOLATION	ASCO NV202-302-1F (UNIT 2) ASCO FT8321A2 (UNIT 1)	IN BOARD PEN.		PAGE 40 (UNIT 2) PAGE 18A (UNIT 1)	BASIS #8-C	SHORT TERM OPERATION

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 40 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 683-1A	ENCLOSURE FOR SV0269 SV0587 (UNIT 1) AND ELECTRICAL CONNECTION SV0269 SV0587 IMS308-CT IMS210-CT IMS209-CT / IMS231-CT	NEMA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN AND TERMINAL BLOCK BUCHANAN 28112N	IN BOARD PEN.	MSLB 320°F 5.8 PSIG L10⁵R	PAGE 62 AND PAGE 64	NONE	
PANEL 689-1A	ENCLOSURE FOR SV0274 AND ELECTRICAL CONNECTION SV0274 / IMS232-CT						
PANEL 688-1A	ENCLOSURE FOR SV0275 AND ELECTRICAL CONNECTION SV0275 / IMS249-DT						

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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1MS231-CT	CONTROL/SIGNAL WIRE FOR: SV0269 SW0587 L.SW. 11MS7 L.SW. 11MS18	CABLE FROM GENERIC GROUPINGS	ELEC. PENET. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1MS232-CT	CONTROL WIRE FOR SOLENOID VALVE SV0274						
1MS249-DT	SV0275						
1MS308-CT	SV0587						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 42 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0279	PILOT VALVE CONTROL FOR 12 MS7 #12 STEAM DRAIN ISOLATION	SOLENOID VALVE ASCO HT8321A2 (UNIT 2) ASCO FT8321A2 (UNIT 1)	OUTBOARD PEN. (INSTR. PANEL)	MSLB 320°F 5.8 PSIG $< 10^5$R	PAGE 18 (UNIT 2) PAGE 18A (UNIT 1)	BASIS #8-A	AMBIENT CONDITIONS DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL SHORT TERM OPERATION
SV0280	PILOT VALVE CONTROL FOR 12 MS169 #12 STEAM STOP VALVE ISOLATION	ASCO FT8321A4			PAGE 41	BASIS #8-B	
SV0281	PILOT VALVE CONTROL FOR 12 MS171 #12 STEAM STOP VALVE ISOLATION						
SV0581	PILOT VALVE CONTROL FOR 12 MS18 #12 STEAM WARMUP ISOLATION	ASCO NV 202-302-1F (UNIT 2) ASCO FT8321A2 (UNIT 1)	OUTBOARD PEN.		PAGE 40 (UNIT 2) PAGE 18A (UNIT 1)	BASIS #8-C	SHORT TERM. OPERATION

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 43 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 683-1B	ENCLOSURE FOR SV0 279 SV0 581 (UNIT 1) AND ELECTRICAL CONNECTION SV0279 SV0581 IMS309-CT IMS214-CT IMS218-CT / IMS283-CT	NEMA 12 INSTRUMENT ENCLOSURE AND TERMINAL BLOCK(S) BUCHANAN 2B112N	IN BOARD PEN.	MSLB 320°F 5.8 PSIG <10^6 R	PAGE 62 AND PAGE 64	NONE	
PANEL 689-1B	ENCLOSURE FOR SV0280 AND ELECTRICAL CONNECTION SV0280 / IMS212B-CT						
PANEL 688-1B	ENCLOSURE FOR SV0281 AND ELECTRICAL CONNECTION SV0281 / IMS213B-DT						

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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1MS238-CT	CONTROL/SIGNAL WIRE FOR SV0279 SV0581 L.SW.12MS7 L.SW.12MS18	CABLE FROM GENERIC GROUPINGS	ELEC. PENET. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1MS212B-CT	CONTROL WIRE FOR SOLENOID VALVE SV0280						
1MS213B-DT	SV0281						
1MS309-CT	SV0581						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 45 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0278	PILOT VALVE CONTROL FOR 13 MS7 #13 STEAM DRAIN ISOLATION	SOLENOID VALVE ASCO HT8321A2 (UNIT2) ASCO FT8321A2 (UNIT1)	IN BOARD PEN. (INSTR. PANEL)	MSLB 320°F 5.8 PSIG <10^5 R	PAGE 18 (UNIT 2) PAGE 18A (UNIT 1)	BASIS #8-A	AMBIENT CONDITIONS- DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL SHORT TERM OPERATION
SV0270	PILOT VALVE CONTROL FOR 13MS169 #13 STEAM STOP VALVE ISOLATION	ASCO FT8321A4			PAGE 41	BASIS #8-B	
SV0271	PILOT VALVE CONTROL FOR 13MS171 #13 STEAM STOP VALVE ISOLATION						
6V0585	PILOT VALVE CONTROL FOR 13MS18 #13 STEAM WARMUP ISOLATION	ASCO HV 202-302-1F (UNIT 2) ASCO FT8321A2 (UNIT 1)	IN BOARD PEN.		PAGE 40 (UNIT 2) PAGE 18A (UNIT 1)	BASIS #8-C	SHORT TERM OPERATION

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
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SYSTEM MAIN STEAM

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 683-IC	ENCLOSURE FOR SV0278 AND ELECTRICAL CONNECTIONS SV0278 / IMS310-DT IMS206-DT IMS203-DT / IMS247-DT	NEMA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN AND TERMINAL BLOCK BUCHANAN MODEL 2812 N	IN BOARD PEN.	MSLB 320°F 5.8 PSIG $<10^5$R	PAGE 62 AND PAGE 64	NONE	
PANEL 689-IC	ENCLOSURE FOR SV0270 AND ELECTRICAL CONNECTION SV0270 / IMS248-CT						
PANEL 688-IC	ENCLOSURE FOR SV0271 AND ELECTRICAL CONNECTION SV0271 / IMS233-DT						

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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR	CABLE FROM GENERIC GROUPINGS	ELEC. PEN. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1MS247-DT	SV0278 SV0585 L.SW. 13MS7 L.SW. 13MS18						
	CONTROL WIRE FOR SOLENOID						
1MS248-CT	SV0270						
1MS233-DT	SV0271						
1MS310-DT	SV0585						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 48 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0288	PILOT VALVE CONTROL FOR 14 MS7 #14 STEAM DRAIN ISOLATION	SOLENOID VALVE ASCO HT8321A2 (UNIT 2) ASCO FT8321A2 (UNIT 1)	OUT BOARD PEN. (INSTR. PANEL)	MSLB 320°F 5.8 PSIG $< 10^6$R	PAGE 18 (UNIT 2) PAGE 18A (UNIT 1)	BASIS #8-A	AMBIENT CONDITIONS DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL SORT TERM. OPERATION
SV0284	PILOT VALVE CONTROL FOR 14MS169 #14 STEAM STOP VALVE ISOLATION	ASCO FT8321A4			PAGE 41	BASIS #8-B	
SV0285	PILOT VALVE CONTROL FOR 14MS171 #14 STEAM STOP VALVE ISOLATION						
SV0583	PILOT VALVE CONTROL FOR 14MS18 #14 STEAM WARMUP ISOLATION	ASCO HV 202-302-1F (UNIT 2) ASCO FT8321A2 (UNIT 1)	OUTBOARD PEN.		PAGE 40 (UNIT 2) PAGE 18A (UNIT 1)	BASIS #8-C	SHORT TERM OPERATION

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 49 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 683-1D	ENCLOSURE FOR SV0288 AND ELECTRICAL CONNECTION SV0288 IMS311-DT IMS211-DT IMS215-DT/IMS253-DT	NEMA 12 INSTRUMENT ENCLOSURE PS E&G DESIGN AND TERMINAL BLOCK BUCHANAN MODEL 2B112N	IN BOARD PEN	MSLB 320°F 5.8 PSIG < 10⁵R	PAGE 62 AND PAGE 64	NONE	
PANEL 689-1D	ENCLOSURE FOR SV0284 AND ELECTRICAL CONNECTION SV0284/IMS212C-CT						
PANEL 688-1D	ENCLOSURE FOR SV0285 AND ELECTRICAL CONNECTION SV0285/IMS213C-DT						

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Revision

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
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UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 50 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR	CABLE FROM GENERIC GROUPINGS	ELEC. PEN. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1MS 253-DT	SV0288 SV0583 L. SW. 14MS7 L. SW. 14MS18						
	CONTROL WIRE FOR SOLENOID						
1MS 212C-CT	SV0284						
1MS 213C-DT	SV0285						
1MS 311-DT	SV0583						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
P.A.T. 21	CONTROL FOR VALVE 21MS18	LEEDS & NORTHRUP # 10973-3	INBOARD PEN.	MSLB 320°F 5.8 PSIG 210°F	PAGE 19	NONE	QUALIFICATION NOT REQ'D
P.A.T. 22	22 MS 18		OUT BOARD PEN.				
P.A.T. 23	23 MS 18		INBOARD PEN.				
P.A.T. 24	24 MS 18		OUT BOARD PEN.				
	(UNIT 2 ONLY)						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 52 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE 11M37 #11 STEAM DRAIN ISOLATION	LIMIT SWITCH MASONEILAN 496-2	INBOARD PEN.	MSLB 320°F 5.8 PSIG <105R	PAGE 20	BASIS #10-A	
UNIT 1 ONLY	CONTROL/POSITION INDICATION FOR VALVE 11M518 #11 STEAM WARMUP ISOLATION						
UNIT 2 ONLY	POSITION INDICATION FOR VALVE 21M518 #21 STEAM WARMUP ISOLATION					BASIS #10-B	
	POSITION INDICATION FOR #11 STEAM ATMOSPHERIC RELIEF VALVE 11M510						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 53 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1MS210-CT	CONTROL/SIGNAL WIRE FOR L. SW. 11 MS7	CABLE FROM GENERIC GROUPINGS	ELEC. PENET. & OTHERS	N/A	PAGE 67 THROUGH 73	BASIS #1	CABLE QUALIFIED TO WORST CASE ENVIRONMENT
1MS209-CT	L. SW. 11 MS18	↓	↓	↓	↓	↓	↓
1MS170-DT	L. SW. 11 M610	↓	↓	↓	↓	↓	↓

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 54 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE 12MS7 #12 STEAM DRAIN ISOLATION	LIMIT SWITCH MASONEILAN 496-2	OUTBOARD PEN.	MSLB 320°F 5.8 PSIG. $<10^5$R	PAGE 20	BASIS #10-A	
UNIT #1 ONLY	CONTROL/POSITION INDICATION FOR VALVE 12MS18 #12 STEAM WARM-UP ISOLATION						
UNIT #2 ONLY	POSITION INDICATION FOR VALVE 22MS18 #22 STEAM WARM-UP ISOLATION					BASIS #10-B	
	POSITION INDICATION FOR VALVE 12MS10 #12 STEAM ATMOSPHERIC RELIEF						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 55 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR	CABLE FROM GENERIC GROUPINGS	ELEC. PENET. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLE QUALIFIED TO WORST CASE ENVIRONMENT
1MS214-CT	L. SW. 12MS7						
1MS218-CT	L. SW. 12MS18						
1MS171-CT	L. SW. 12MS10						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 56 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE 13MS7 #13 STEAM DRAIN ISOLATION	LIMIT SWITCH MASONEILAN 496-2	INBOARD PEN	MSLB 320°F 58 PSIG $< 10^5$R	PAGE 20	BASIS #10-A	
UNIT #1 ONLY	CONTROL/POSITION INDICATION FOR VALVE 13MS18 #13 STEAM WARM-UP ISOLATION						
UNIT #2 ONLY	POSITION INDICATION FOR VALVE 23MS18 #23 STEAM WARM-UP ISOLATION					BASIS #10-B	
	POSITION INDICATION FOR VALVE 13MS10 #13 STEAM ATMOSPHERIC RELIEF						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 57 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR	CABLE FROM GENERIC GROUPINGS	ELEC. PENET. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLE QUALIFIED TO WORST CASE ENVIRONMENT
1MS 206-DT	L. SW. 13MS7						
1MS 203-DT	L. SW. 13MS18						
1MS 172-CT	L. SW. 13MS10						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 58 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE 14MS7 #14 STEAM DRAIN ISOLATION	LIMIT SWITCH MASONEILAN 496-2	OUTBOARD PEN.	MSLB 320°F 5.8 PSIG $< 10^5$ R	PAGE 20	BASIS #10-A	
UNIT #1 ONLY	CONTROL/POSITION INDICATION FOR VALVE 14MS18 #14 STEAM WARM-UP ISOLATION						
UNIT #2 ONLY	POSITION INDICATION FOR VALVE 24MS18 #24 STEAM WARM-UP ISOLATION					BASIS #10-B	
	POSITION INDICATION FOR VALVE 14MS10 #14 STEAM ATMOSPHERIC RELIEF						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 59 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR	CABLE FROM GENERIC GROUPINGS	ELEC. PENET. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLE QUALIFIED TO WORST CASE ENVIRONMENT
1MS 211-DT	L. SW. 14MS7	↓	↓	↓	↓	↓	↓
1MS 215-DT	L. SW. 14MS18						
1MS173-DT	L. SW. 14MS10						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 60 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POSITION INDICATION FOR STEAM STOP ISOLATION VALVES	LIMIT SWITCH NAMCO D-2400X-2		MSLB 320°F 5.8 PSIG 210⁵R	PAGE 20A	BASIS #10-B	
	11 MS167		INBOARD PEN.				
	13 MS167		INBOARD PEN.				
	12 MS167		OUTBOARD PEN.				
	14 MS167		OUTBOARD PEN.				

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 61 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JN-80 (UNIT 1) JN-89 (UNIT 2)	ELECTRICAL CONNECTION IMS204A-CT / IMS204B-CT / IMS204-CT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK (S) MODEL 2B112N	IN BOARD PEN.	MSLB 320°F 5.8 PSIG. $<10^5$ R	PAGE 64	NONE	
JN-83 (UNIT 1) JN-92 (UNIT 2)	IMS207A-DT / IMS207B-DT / IMS207-DT						
JN-81 (UNIT 1) JN-90 (UNIT 2)	IMS208A-CT / IMS208B-CT / IMS208-CT						
JN-82 (UNIT 1) JN-91 (UNIT 2)	IMS205A-DT / IMS205B-DT / IMS205-DT						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 62 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JN-84 (UNIT 1) JN-96 (UNIT 2)	ELECTRICAL CONNECTION IMS212E-CT / IMS212G-CT / IMS212A-CT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK(S) MODEL 2B112N	OUT BOARD PEN	MSLB 320°F 5.8 PSIG. $<10^5$ R	PAGE 64	NONE	
JN-86 (UNIT 1) JN-94 (UNIT 2)	IMS213E-DT / IMS213G-DT / IMS213A-DT						
JN-85 (UNIT 1) JN-95 (UNIT 2)	IMS212F-CT / IMS212H-CT / IMS212D-CT						
JN-87 (UNIT 1) JN-97 (UNIT 2)	IMS213F-DT / IMS213H-DT / IMS213D-DT						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 63 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JT-342 (UNIT #1) JT-376 (UNIT #2)	ELECTRICAL CONNECTION IMS213A-DT / IMS213D-DT / IMS213-DT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) - BUCHANAN MODEL 2B112N	OUTBOARD PEN.	MSLB 320°F 5.8 PSIG. $<10^5$R	PAGE 64	NONE	
JT-343 (UNIT #1) JT-377 (UNIT #2)	IMS212A-CT / IMS212D-CT / IMS212-CT						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 64 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1MS204A-CT 1MS204B-CT 1MS204-CT	SIGNAL WIRE FOR LIMIT SWITCH FOR 11MS167 CH. C	CABLE FROM GENERIC GROUPINGS	ELECT. PENET. & OTHERS	N/A	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1MS207A-DT 1MS207B-DT 1MS207-DT	CH. D						
1MS208A-CT 1MS208B-CT 1MS208-CT	13MS167 CH. C						
1MS205A-DT 1MS205B-DT 1MS205-DT	CH. D						

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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 65 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR LIMIT SWITCH FOR	CABLE FROM GENERIC GROUPINGS	ELECT. PENET. & OTHERS	N/A	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1MS212E-CT 1MS212G-CT 1MS212A-CT	12MS167 CH. C						
1MS213E-DT 1MS213G-DT 1MS213A-DT	CH. D						
1MS212F-CT 1MS212H-CT 1MS212D-CT	13MS167 CH. C						
1MS213F-DT 1MS213H-DT 1MS213D-DT	CH. D						
1MS212-CT	12 & 13MS167 CH. C						
1MS213-DT	CH. D						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 66 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
CMC SWITCH	CONTROL FOR 11MS167	MICRO SWITCH 910PSD533	INBOARD PEN.	MSLB 320°F 5,8 PSIG. $<10^5$ R	PAGE 21	BASIS #11	
	12MS167		OUTBOARD PEN				
	13MS167		INBOARD PEN				
	14MS167		OUTBOARD PEN				

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 67 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 687-A	ENCLOSURE FOR CMC FOR 11MS167 AND ELECTRICAL CONNECTIONS CMC SW/ 1MS236-BT 1MS237-BT	NEMA 12 INSTRUMENT ENCLOSURE HOFFMAN A-16 1208 LP CINCH JONES TERMINAL BLOCK (S)	INBOARD PEN.	MSLB 320°F 5.8 PSIG. $<10^5$ R	PAGE 62 AND PAGE 22	BASIS #11	
PANEL 687-B	ENCLOSURE FOR CMC FOR 12MS167 ELECTRICAL CONNECTIONS CMC SW/ 1MS246-BT 1MS261-BT		OUTBOARD PEN.				

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM

SHEET 68 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 687-C	ENCLOSURE FOR CMC FOR 13MS167 AND ELECTRICAL CONNECTIONS CMC SW/ 1MS251-CT 1MS260-CT	NEMA 12 INSTRUMENT ENCLOSURE HOFFMAN A-161208 LP CINCH JONES TERMINAL BLOCK(S)	INBOARD PEN.	MSLB 320°F 5.8 PSIG. $<10^5$ R	PAGE 62 AND PAGE 22	BASIS #11	
PANEL 687-D	ENCLOSURE FOR CMC FOR 14MS167 AND ELECTRICAL CONNECTIONS CMC SW/ 1MS256E-CT 1MS257-CT		OUTBOARD PEN.				

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 69 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JT-341 (UNIT1) JT-350 (UNIT2)	ELECTRICAL CONNECTIONS IMS256E-CT/IMS256-CT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN BUCHANAN BLOCK MODEL 2B112N	INBOARD PENET. AREA 100'	MSLB 320°F 5.8 PSIG <10⁵R	PAGE 64	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN STEAM SHEET 70 OF 70

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL WIRES FOR VALVES:	CABLES FROM GENERIC GROUPINGS		N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1MS237 - BT	11MS167		INBOARD PEN.				
1MS246 - BT	12MS167		OUTBOARD PEN.				
1MS260 - CT	13MS167		INBOARD PEN.				
1MS256 - CT	14MS167		OUTBOARD PEN.				
1MS256E CT	14MS167						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN FEEDWATER SHEET 1 OF 2

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
B EAST VALVE CONTROL CENTER	POWER/CONTROL FOR VALVES 11BF13 12BF13 F.W. ISOL. STOP VALVES	MOTOR CONTROL CENTER GENERAL ELECTRIC 7700 LINE	ELECT. PENET.	RECIRC. L 105 R	PAGE 74	BASIS 7	
C EAST VALVE CONTROL CENTER	POWER/CONTROL FOR VALVES 13BF13 AND 14BF13 F.W. ISOL. STOP VALVES	↓	↓	↓	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MAIN FEEDWATER

SHEET 2 OF 2

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1B3YAM-B	POWER FEED FOR VALVE 11BF13	POWER CABLE FROM GENERIC GROUPINGS	ELECT. PENET. AND OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE CONDITIONS
1B3YAN-B	12BF13						
1C3YAT-C	13BF13						
1C3YAU-C	14BF13						
1B3YAM2-BT	MISC. CONTROL - LIMIT/TORQUE SWITCHES FOR VALVES 11BF13 AND 12BF13	CONTROL CABLE FROM GENERIC GROUPINGS					
1C3YAT2-CT	13BF13 AND 14BF13						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM AUXILIARY FEEDWATER SHEET 1 OF 6

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
FA 1087	#11 SG AUX FEEDWATER FLOW	DIFFERENTIAL PRESSURE TRANSMITTER FISCHER-PORTER [ ] A,C	INBOARD PEN.	MSLB 320°F 5.8 PSIG $< 10^5$R	PAGE 23	BASIS #12 BASIS #1	
FA 1091	#12		OUTBOARD PEN.				
FA 1095	#13		MECH. PEN. 78 (INSTR. PANEL)	HEBA 212°F 1 PSIG $< 5 \times 10^7$R	PAGE 24		AMBIENT CONDITIONS DEVICE EXPOSED TO LOWER TEMP. WITHIN PANEL
FA 1097	#14		OUTBOARD PEN.	MSLB 320°F 5.8 PSIG $< 10^5$R	PAGE 23		

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM AUXILIARY FEEDWATER

SHEET 2 OF 6

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
FA 3969	#11 SG AUX. FEEDWATER FLOW	SQUARE ROOT EXTRACTOR FISCHER-PORTER 50ES3212 WITH A CUTLER-HAMMER DOUBLE POLE SINGLE THROW CUTOUT SWITCH	INBOARD PEN. (INSTR. PANEL)	MSLB 320°F 5.8 PSIG $<10^5$R	PAGE 25	BASIS #12	
FA 3970	#12		OUTBOARD PEN. (INSTR. PANEL)				
FA 3971	#13		MECH. PEN. 78 (INSTR. PANEL)	HEBA 212°F 1 PSIG $<5\times10^7$R	PAGE 26		
FA 3972	#14		OUTBOARD PEN. (INSTR. PANEL)	MSLB 320°F 5.8 PSIG $<10^5$R	PAGE 25		

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM AUXILIARY FEEDWATER SHEET 3 OF 6

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 691-C	ENCLOSURE FOR FA 3969 AND ELECTRICAL CONNECTION 1FW300A-BQ/FA3969 FA 3969/1FW300-BQ CHSW/18VAC20A-BT FA 1087/1FW300A-BQ	NENA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN AND TERMINAL BLOCK BUCHANAN MODEL 2B112N	INBOARD PEN.	MSLB 320°F 5.8 PSIG L10⁵R	PAGE 62 AND PAGE 64	NONE	
PANEL 691-A	ENCLOSURE FOR FA 3970 AND ELECTRICAL CONNECTION 1FW301A-BQ/FA3970 FA 3970/1FW301-BQ CHSW/18VAC20B-BT FA 1091/1FW301A-BQ		OUTBOARD PEN.				

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM AUXILIARY FEEDWATER SHEET 4 OF 6

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 690	ENCLOSURE FOR FA 1095, FA 3971 WITH INTERNAL WIRE CONNECTION AND ELECTRICAL CONNECTION FA 3971/1FW302-AQ CNSW/1AVAC 30A-AT	NEMA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN AND TERMINAL BLOCK BUCHANAN MODEL 2B112N	MECH. PEN. 78	HEBA 212°F 1 PSIG $<5\times10^7$R	PAGE 62 AND PAGE 64	NONE	
PANEL 691-B	ENCLOSURE FOR FA 3972 AND ELECTRICAL CONNECTION 1FW303A-AQ/FA3972 FA3972/1FW303-AQ CNSW/1AVAC 30B-AT FA 1097/1FW303A-AQ		OUTBOARD PEN.	MSLB 320°F 5.8 PSIG $<10^5$R			

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM AUXILIARY FEEDWATER SHEET 5 OF 6

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1FW300A-BQ	SIGNAL WIRE FOR INSTRUMENTS FA 1087	INSTRUMENTATION CABLE FROM GENERIC GROUPINGS	INBOARD PEN. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS *1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1FW301A-BQ	FA 1091		OUTBOARD PEN. & OTHERS				
1FW303A-AQ	FA 1097						
1FW300-BQ	FA 3969		INBOARD PEN. & OTHERS				
1FW301-BQ	FA 3970		OUTBOARD PEN. & OTHERS				
1FW302-AQ	FA 3971		MECH. PEN. & OTHERS				
1FW303-AQ	FA 3972		OUTBOARD PEN. & OTHERS				

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM AUXILIARY FEEDWATER SHEET 6 OF 6

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER WIRE FOR CUTLER-HAMMER SWITCH ASSOCIATED WITH:	POWER CABLE FROM GENERIC GROUPINGS		N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1BVAC20A-BT	FA3969		INBOARD PEN. & OTHERS				
1BVAC20B-BT	FA3970		OUTBOARD PEN. & OTHERS				
1AVAC30A-AT	FA3971		MECH. PEN. & OTHERS				
1AVAC30B-AT	FA3972		OUTBOARD PEN. & OTHERS				

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CHARGING/LETDOWN SHEET 1 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV 0117	PILOT VALVE CONTROL FOR 1SJ78 BIT TO BAT'S ISOLATION VALVE	SOLENOID VALVE ASCO FT8316S4	MECH. PEN.-78 (INSTR. RACK)	HEBA 212°F 1PSIG $< 5 \times 10^7$ R	PAGE 57	BASIS #25	
SV 0118	PILOT VALVE CONTROL FOR 1SJ79 BIT TO BAT'S ISOLATION VALVE						
SV 0119	PILOT VALVE CONTROL FOR 1SJ108 B.A. TRANSFER PUMPS TO BIT ISOLATION VALVE						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CHARGING / LETDOWN SHEET 2 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
FA-7462 (FT-917)	CHARGING FLOW TO BIT	FISCHER-PORTER [ ] A,C ΔP TRANSMITTER	AUX. BLDG. 84' (INSTR. RACK)	RECIRC. <10^5 R	PAGE 59	BASIS #27 BASIS #1	
PT-942	BIT DISCH. PRESS.	FISCHER-PORTER [ ] A,C PRESSURE TRANSMITTER	MECH. PEN. 78' (INSTR. RACK)	HEBA 212°F 1 PSIG <5×10^7 R	PAGE 51	BASIS #21 BASIS #1	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CHARGING / LETDOWN

SHEET 3 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1SI11-AQ	CONTROL/SIGNAL WIRE FOR: PT-942	CABLE FROM GENERIC GROUPINGS	MECH. PEN. 78' & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SI126-BQ	FA-7462						
1SI20-BT	SV0117 + SV0119						
1SI23-BT	SV0118						
1SI20A-BT	LIMIT SW. FOR 1SJ78 (SV0117)						
1SI20B-BT	LIMIT SW. FOR 1SJ108 (SV0119)						
1SI23A-CT	LIMIT SW. FOR 1SJ79 (SV0118)						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
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SYSTEM CHARGING / LETDOWN

SHEET 4 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
LIMIT SWITCHES FOR VALVES	CONTROL AND/OR POSITION INDICATION	NAMCO D-2400X (UNIT-1) EA 170-11302 (UNIT-2)	MECH. PEN. 78'	NEBA 212°F 1 PSIG. $< 5 \times 10^7$ R	PAGE 56 PAGE 90	BASIS #26	
1SJ78	BORON INJECTION TANK TO BORIC ACID TRANSFER PUMPS ISOLATION VALVE						
1SJ79							
1SJ108	BORON INJECTION TANK TO BORIC ACID TANK ISOLATION VALVE						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CHARGING/LETDOWN

SHEET 5 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 215	SV0117 SV0118 SV0119 PT-942	INSTRUMENT RACK PSE&G DESIGN	MECH. PEN. 78'	HEBA 212°F IPSIG <5X10⁷R	PAGE 62 AND PAGE 64	NONE	
	ELECTRICAL CONNECTIONS SV0117/1SI20-BT SV0118/1SI23-CT SV0119/1SI20-BT PT-942/1SI11-A	TERMINAL BLOCKS BUCHANAN MODEL 2B112N					

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CHARGING/LETDOWN SHEET 6 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 219	FA-7462 AND ELECTRICAL CONNECTION FA-7462/ISI126-BQ	INSTRUMENT RACK PSE&G DESIGN TERMINAL BLOCK BUCHANAN MODEL 2B112N	AUX. BLDG. 84'	RECIRC. $< 10^5$ R	PAGE 62 PAGE 64	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
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SYSTEM CHARGING / LETDOWN SHEET 7 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	MOTOR OPERATED VALVES	VALVE MOTORS LIMITORQUE					
1SJ1 1SJ2	RWST SUCTION (CHG. PUMPS)	SMB-00-10	AUX. BLDG 84'	RECIRC. $<10^3$R (SHORT TERM)	PAGE 63	BASIS #1	
1SJ4 1SJ5	SUPPLY BIT	SMB-0-15	MECH. PEN 78'	HEBA 212°F 1PSIG 5×10^7R			
1SJ12 1SJ13	DISCHARGE BIT	SMB-0-15	MECH. PEN. 78'	HEBA 212°F 1PSIG 5×10^7R			
12SJ45	RHR DISCH. TO CHG. PUMPS SUCTION	SMB-2	AUX. BLDG. 84'	RECIRC. 5×10^7R (SHORT TERM)			
1CV68 1CV69	CHARGING ISOLATION VALVES	SMB-00-25	MECH. PEN. 78'	HEBA 212°F 1PSIG 5×10^7R (SHORT TERM)			
1CV139 1CV140	11+12 CHG. PUMPS RECIRC. TO SEAL WTR HX ISOLATION VALVES	SMB-00-25	AUX. BLDG. 84'	RECIRC. $<5\times10^7$R			
1CV175	RAPID BORATE ISOLATION VALVE	SMB-00-25	AUX. BLDG. 100'	RECIRC. $<10^3$R			

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CHARGING / LETDOWN SHEET 8 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	MOTOR OPERATED VALVES	VALVE MOTORS LIMITORQUE					
1CV40 1CV41	NORMAL CHARGING SUCTION VALVES	SMB-00	AUX. BLDG 100'	RECIRC $< 10^3$ R	PAGE 63	BASIS #1	CLOSE IN SHORT TERM.

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

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ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CHARGING/LETDOWN

SHEET 9 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
11 CHARGING Pump 12 CHARGING Pump	MOTOR	WESTINGHOUSE OPEN DRIP PROOF, HORIZONTAL (W) SPIN#PNJCSAPCH (UNIT 2) (W) SPIN#PSECSAPCH (UNIT 1)	AUX. BLDG. 84'	RECIRC. 2×10^6 R	PAGE 27	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

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ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CHARGING/LETDOWN

SHEET 10 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER CABLES FOR VALVE MOTORS	CABLE FROM GENERIC GROUPINGS	ELECT. PEN. MECH. PEN. AND OTHERS	N/A	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1B3YBP-B	1CV68						
1C3YAJ-C	1CV69						
1B3YBQ-B	1CV139						
1C3YBG-C	1CV140						
1C3YBK-C	1CV40						
1B3YBV-B	1CV41						
1C3YBD-C	1SJ1						
1B3YBA-B	1SJ2						
1B3YBF-B	1SJ4						
1C3YAB-C	1SJ5						
1C3YAC-C	1SJ13						
1B3YBG-B	1SJ12						
1C3YBH-C	1CV175						
1B3YBB-B	12SJ45						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CHARGING/LETDOWN SHEET 11 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVES	CABLE FROM GENERIC GROUPINGS	MECH. PEN. AND OTHERS	N/A	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1C3YBD2-CT	1SJ1						
1B3YBA2-BT	1SJ2						
1B3YBB2-BT	12SJ45						
1B3YF2-BT	1SJ4						
1C3YAB2-CT	1SJ5						
1C3YAC2-CT	1SJ13						
1B3YB42-BT	1SJ12						
1C3YBM2-CT	1CV175						
1B3YBP2-BT	1CV68						
1C3YAJ2-CT	1CV69						
1B3YBQ2-BT	1CV139						
1C3YB42-CT	1CV140						
1C3YBK2-CT	1CV40						
1C3YBV2-BT	1CV41						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
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SYSTEM CHARGING / LETDOWN SHEET 12 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
LIMIT SWITCHES FOR VALVES	CONTROL / POSITION INDICATION FOR VALVES	LIMITORQUE SMB (LIMIT SWITCHES INTERNAL TO MOTORS)	MECH. PEN. AND OTHERS	N/A	PAGE 63	BASIS #1	
1SJ1 1SJ2 1SJ4 1SJ5 1SJ12 1SJ13	SAFETY INJECTION Isol. VALVES FOR CHG. Pumps AND BIT						
125J45	CROSSCONNECT VALVE BETWEEN RHR/CHG. Pumps						
1CV40 1CV41 1CV68 1CV69 1CV139 1CV140 1CV175	NORMAL CHARGING ISOLATION VALVES To CHG. Pumps						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CHARGING/LETDOWN SHEET 13 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	PUMP MOTOR POWER CABLES	CABLE FROM GENERIC GROUPINGS	AUX. BLDG. 84', 64', 100'	N/A	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1B9D-B	11 CHARGING PUMP						
1C9D-C	12 CHARGING PUMP						
1A7X-A	13 CHARGING PUMP						
1A11X-A	11 B.A. TRANSFER PUMP						
1C11X-C	12 B.A. TRANSFER PUMP						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CHARGING/LETDOWN

SHEET 14 OF 14

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER/CONTROL FOR VALVES	MOTOR CONTROL CENTER GENERAL ELECTRIC 7700 LINE	ELEC. PEN. 78'	RECIRC. $< 10^5$ R	PAGE 74	BASIS #7	
1C EAST MOTOR CONTROL CENTER	1CV69 1SJ5 1SJ13						
1B WEST MOTOR CONTROL CENTER	1CV68 1CV139 1CV41 1SJ2 1SJ4 1SJ12 12SJ45		AUX. BLDG. 84'	RECIRC. $< 10^5$ R		NONE	
1C WEST MOTOR CONTROL CENTER	1CV140 1SJ1 1CV175 1CV40						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
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SYSTEM SAFETY INJECTION

SHEET 1 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
11 S.I. PUMP MOTOR 12 S.I. PUMP MOTOR	MOTOR	WESTINGHOUSE (BUFFALO) (W) SPIN #PNJ-SIAPSI (UNIT 2) (W) SPIN #PSE-SIAPSI (UNIT 1)	AUX. BLDG.-84'	RECIRC. $< 5 \times 10^6$ R	PAGE 28	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

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SYSTEM SAFETY INJECTION

SHEET 2 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER CABLE FOR	CABLE FROM GENERIC GROUPINGS	AUX. BLDG.-84	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED FOR WORST CASE ENVIRONMENT
1A5D-A	11 S.I. PUMP						
1C5D-C	12 S.I. PUMP						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

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SYSTEM SAFETY INJECTION SHEET 3 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
11SJ113	S.I. SYSTEM INTERTIE WITH CHARGING SYSTEM	MOTOR OPERATED VALVE LIMITORQUE SMB	AUX. BLDG.-84	RECIRC, $<10^3$R	PAGE 63	BASIS #1	
12SJ113							
18J30	S.I. PUMPS SUCTION FROM RWST			RECIRC. $<5\times10^6$R SHORT TERM			
11SJ45	12 S.I. PUMP SUCTION FROM 11 RHR H.X.	LIMITORQUE SMB-2					
12SJ40	12 S.I. PUMP DISCH. TO HOT LEGS	LIMITORQUE SMB	MECH. PEN.-78	HEBA 212°F 1 PSIG $<5\times10^7$R (LONG TERM)			
11SJ40	11						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
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SYSTEM SAFETY INJECTION

SHEET 4 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
11SJ134	11 S.I. PUMP DISCH. TO COLD LEGS ISOLATION VALVES	MOTOR OPERATED VALVE LIMITORQUE SMB	MECH. PEN-78	HEBA 212°F 1 PSIG. <5X10⁷R (LONG TERM)	PAGE 63	BASIS #1	
12SJ134	12	↓	↓	↓	↓	↓	
1SJ135	↓	↓	↓	↓	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
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SYSTEM SAFETY INJECTION SHEET 5 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1A WEST MOTOR CONTROL CENTER	MOTOR CONTROL CENTER	GENERAL ELECTRIC 7700 LINE	AUX. BLDG. 84'	RECIRC. $< 10^3$ R	PAGE 74	NONE	
1B WEST MOTOR CONTROL CENTER	↓	↓	↓	↓	↓	↓	
1C WEST MOTOR CONTROL CENTER	↓	↓	↓	↓	↓	↓	
1A EAST MOTOR CONTROL CENTER	↓	↓	ELEC. PEN. 78'	RECIRC. $< 10^5$ R	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
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SYSTEM SAFETY INJECTION SHEET 6 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL WIRE FOR VALVE	CABLE FROM GENERIC GROUPINGS	AUX. BLDG. 84'	N/A	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED FOR WORST CASE ENVIRONMENT
1A3YBJ-A	115J113						
1B3YBY-B	125J113						
1C3YBA-C	15J30						
1A3YBB-A	115J45						
1C3YAF-C	125J40		MECH. PEN. 78'				
1A3YAL-A	115J40						
1A3YAQ-A	115J134						
1C3YAG-C	125J134						
1B3YBZE-B	15J135						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
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SYSTEM SAFETY INJECTION SHEET 7 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
FA 7464 (FT-918)	12 SAFETY INJECTION PUMP FLOW	DIFFERENTIAL PRESSURE TRANSMITTER FISCHER-PORTER [ ] A,C	AUX. BLDG. 84'	RECIRC. $< 5 \times 10^6$ R	PAGE 59	BASIS #27 BASIS #1	
FA 0226 (FT-922)	11 SAFETY INJECTION PUMP FLOW	DIFFERENTIAL PRESSURE TRANSMITTER FISCHER-PORTER [ ] A,C					

SALEM GENERATING STATION
UNITS 1 AND 2
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ENVIRONMENTAL

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SYSTEM SAFETY INJECTION

SHEET 8 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JS-505 (UNIT-1) JS-619 (UNIT-2)	ELECTRICAL CONNECTION FA7464/1511 17A-CQ	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) P.S.E.&G. DESIGN WITH BUCHANAN BLOCK(S) MODEL 2B112N	AUX. BLDG. 84'	REGIRC. <5X10^6 R	PAGE 64	NONE	
JS-594 (UNIT-1) JS-618 (UNIT-2)	FA0226/1516-D9						

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SYSTEM SAFETY INJECTION

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PA 0227 (PT-923)	11&12 SAFETY INJECTION PUMPS DISCHARGE PRESSURE	PRESSURE TRANSMITTER FISCHER-PORTER [ ] A,C	AUX. BLDG. 84'	RECIRC. < 5x10⁶R	PAGE 51	BASIS #21 BASIS #1	
PA 7461 (PT-919)	12 SAFETY INJECTION PUMP DISCHARGE PRESSURE	↓	↓	↓	↓	↓	

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SYSTEM SAFETY INJECTION SHEET 10 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 202	ENCLOSURE FOR INSTRUMENTS PA 0227 PA 7461 AND ELECTRICAL CONNECTION 1SI117A-CQ/ PA7461 / 1SI117-CQ 1SIGA-DQ/ PA0227 / 1SIG-DQ	NEMA 12 INSTRUMENT ENCLOSURE P.S.E.&G. DESIGN	AUX. BLDG. 84'	RECIRC. $< 5 \times 10^6$ R	PAGE 62	NONE	

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SYSTEM SAFETY INJECTION SHEET 11 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTEUMENT	CABLE FROM GENERIC GROUPINGS	AUX. BLDG. 84' & OTHERS	N/A	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED FOR WORST CASE ENVIRONMENT
1SI117A-CQ	FA 7464						
1SI117-CQ	FA 7464						
1SI117-CQ	FA 7461						
1SI6A-DQ	FA 0226						
1SI6-DQ	FA 0226						
1SI6-DQ	FA 0227						

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SYSTEM SAFETY INJECTION

SHEET 12 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE 11SJ113 SAFETY INJECTION SYSTEM INTERTIE WITH CHARGING SYSTEM 12SJ113 SAFETY INJECTION SYSTEM INTERTIE WITH CHARGING SYSTEM 1SJ30 SAFETY INJECTION PUMPS SUCTION FROM REFUELING WATER STORAGE TANK 11SJ45 12 SAFETY INJECTION PUMP SUCTION FROM 11 RESIDUAL HEAT REMOVAL HEAT EXCHANGER	LIMITORQUE LIMIT SWITCH INTERNAL TO MOTOR	AUX. BLDG. 84'	RECIRC. $< 10^3$ R LONG TERM RECIRC. $< 5 \times 10^6$ R SHORT TERM	PAGE 63	BASIS #1	

SALEM GENERATING STATION
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SYSTEM SAFETY INJECTION

SHEET 13 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE 12SJ40 12 SAFETY INJECTION PUMP DISCH. TO HOT LEGS 11SJ40 11 SAFETY INJECTION PUMP DISCH. TO HOT LEGS 11SJ134 11 SAFETY INJECTION PUMP DISCH. TO COLD LEGS 12SJ134 12 SAFETY INJECTION PUMP DISCH. TO COLD LEGS 1SJ135 SAFETY INJECTION PUMPS TO COLD LEGS	LIMITORQUE LIMIT SWITCH INTERNAL TO MOTOR	MECH. PEN. 78'	HEBA 212°F 1PSIG $< 5 \times 10^7$ R LONG TERM	PAGE C3	BASIS #1	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
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SYSTEM SAFETY INJECTION SHEET 14 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JN-669 (UNIT-1) JN-674 (UNIT-2)	ELECTRIC CONNECTION 1ANN606-FT 1ANN605-FT 1ANN609-FT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) P.S.E&G. DESIGN WITH BUCHANAN BLOCK(S) MODEL 28112N	MECH. PEN. 78'	N/A	PAGE 64	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
JN-670 (UNIT-1) JN-673 (UNIT-2)	ELECTRIC CONNECTION 1ANN618-GT 1ANN617-GT 1ANN621-GT						

SALEM GENERATING STATION
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SYSTEM SAFETY INJECTION

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1A3YBJ2-AT	CONTROL/SIGNAL WIRES FOR LIMIT SWITCH FOR VALVE 11SJ113	CABLE FROM GENERIC GROUPINGS	AUX. BLDG 84 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLES QUALIFIED TO WORST CASE ENVIRONMENT
1A3YBG2A-AT	11SJ113						
1B3YBY2-BT	12SJ113						
1B3YBY2A-BT	12SJ113						
1C3YBA2-CT	1SJ30						
1C3YBA2A-CT	1SJ30						
1ANN494-CT	1SJ30						
1ANN497-FT	1SJ30						

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SYSTEM SAFETY INJECTION SHEET 16 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1A3YBB2-AT	CONTROL/SIGNAL WIRES FOR LIMIT SWITCH FOR VALVE 115J45	CABLE FROM GENERIC GROUPINGS	AUX. BLDG-84 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLES QUALIFIED TO WORST CASE ENVIRONMENT
1A3YBA2A-AT	115J45						
1C3YAF2-CT	125J40		MECH. PEN-78 & OTHERS				
1C3YBH2A-CT	125J40						
1ANN606-FT	125J40						
1ANN609-FT	125J40						
1ANN618-GT	125J40						
1ANN621-GT	125J40						

SALEM GENERATING STATION
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SYSTEM SAFETY INJECTION SHEET 17 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRES FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	MECH. PEN. 78 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLES QUALIFIED TO WORST CASE ENVIRONMENT
1A3YAL2-AT	11SJ40						
1A3YAL2A-AT	11SJ40						
1ANN606-FT	11SJ40						
1ANN609-FT	11SJ40						
1ANN618-GT	11SJ40						
1ANN621-GT	11SJ40						
1A3YAQ2-AT	11SJ134						
1A3YAL2A-AT	11SJ134						

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SHEET 18 OF 18

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1C3YAG2-CT	CONTROL / SIGNAL WIRES FOR LIMIT SWITCH FOR VALVE 12 SJ 134	CABLE FROM GENERIC GROUPINGS	MECH. PEN: 78 & OTHERS	N/A	PAGES 67 THROUGH 78	BASIS #1	CABLES QUALIFIED TO WORST CASE ENVIRONMENT
1C3YBH2A-CT	12 SJ 134						
1B3YBZE2-BT	1SJ135						
1B3YBJ2A-BT	1SJ135						
1ANN498-FT	1SJ135						
1ANN495-GT	1SJ135						

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SYSTEM RESIDUAL HEAT REMOVAL SHEET 1 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
11 RHR PUMP	MOTOR	WESTINGHOUSE (BUFFALO) (W) SPIN #(UNIT 1)-PSE-ACAPRH (W) SPIN #(UNIT 2)-PNS-ACAPRH	AUX. BLDG. - 45	RECIRC. <6X10⁶R	PAGE 29	NONE	
12 RHR PUMP	↓	↓	↓	↓	↓	↓	

SALEM GENERATING STATION
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SYSTEM RESIDUAL HEAT REMOVAL

SHEET 2 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1A7D-A	POWER CABLES FOR: 11 RHR PUMP MOTOR	CABLE FROM GENERIC GROUPINGS	AUX. BLDG. 9S & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORSE CASE ENVIRONMENT
1B7D-B	12 RHR PUMP MOTOR	↓	↓	↓	↓	↓	↓

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SALEM GENERATING STATION
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SYSTEM RESIDUAL HEAT REMOVAL

SHEET 3 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	MOTORS FOR VALVES:						
11RH4	11 RHR PUMP SUCTION	MOTOR OPERATED VALVE LIMITORQUE SMB-0	AUX. BLDG-55	RECIRC. <7X10⁶R	PAGE 63	BASIS #1	
12RH4	12 RHR PUMP SUCTION	↓	↓	↓	↓	↓	
11SJ44	11 PUMP SUCTION FROM SUMP	LIMITORQUE SMB	AUX. BLDG-45	↓	↓	↓	
12SJ44	12 ↓	↓	↓	↓	↓	↓	

SALEM GENERATING STATION
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SYSTEM RESIDUAL HEAT REMOVAL

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
11 SJ 49	MOTORS FOR VALVES: 11 RHR PUMP DISCHARGE TO COLD LEGS	MOTOR OPERATED VALVE LIMITORQUE SMB-3-80	MECH. PEN-78	HEBA 212°F 1 PSIG $< 5 \times 10^7$ R	PAGE 63	BASIS #1	
12 SJ 49	12						
1 RH 26	RHR PUMPS DISCHARGE TO HOT LEGS	LIMITORQUE SMB	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/428 PSIG $< 5 \times 10^7$ R			
11 RH 29	11 RHR PUMP RECIRC.	LIMITORQUE SMB-0025	AUX. BLDG-95	$< 6 \times 10^6$ R			
12 RH 29	12 RHR						

SALEM GENERATING STATION
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SYSTEM RESIDUAL HEAT REMOVAL

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1 RH 1	MOTORS FOR VALVES: RHR PUMPS SUCTION FROM 11 HOT LEG	MOTOR OPERATED VALVE LIMITORQUE SMB-1	CONTAINMENT	MSLB 350°F 42.8 PSIG < 10^5 R	PAGE 63	BASIS #1	
1 RH 2	↓	↓			↓	↓	
11 RH 19	11 RHx CROSS DISCH.	LIMITORQUE SMB	AUX. BLDG-45	RECIRC. < 6×10^6 R			
12 RH 19	12 ↓	↓	↓				

SALEM GENERATING STATION
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER/CONTROL FOR VALVES						
1A WEST MOTOR CONTROL CENTER	11RH29, 11ST44 11RH4, 11RH19	GENERAL ELECTRIC 7700 LINE	AUX. BLDG. 84'	RECIRC. $<10^3$R	PAGE 74	NONE	
1B WEST MOTOR CONTROL CENTER	12RH29, 12SJ49, 12SJ44, 12RH4, 12RH19						
1A EAST MOTOR CONTROL CENTER	1RH2, 11SJ49		ELEC. PEN.	RECIRC. $<10^5$R		BASIS 7	
1B EAST MOTOR CONTROL CENTER	1RH1						
1C EAST MOTOR CONTROL CENTER	1RH26						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL WIRES FOR VALVES	CABLE FROM GENERIC GROUPINGS	AUX. BLDG. -55 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YBEA	11RH4						
1B3YBL-B	12RH4						
1A3YBEP-A	11SJ44		AUX. BLDG. -45 & OTHERS				
1A3YBE-A	11SJ44						
1B3YBHP-B	12SJ44						
1B3YBH-B	12SJ44						
1A3YAH-A	11SJ49		MECH. PEN. -78 & OTHERS				
1B3YBE-B	12SJ49						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	Control Wires For Valves	Cable From Generic Groupings	Containment And Others	LOCA / MSLB 271/350°F 43.2/42.8 PSIG $<5X10^7R$ (Containment Only)	Pages 67 Through 73	Basis #1	Cabling Qualified To Worst Case Environment
1C3YAVP-C	1RH26						
1C3YAV-C	1RH26						
1A3YBK-A	11RH29						
1B3YBT-B	12RH29						
1B3YANP-B	1RH1						
1B3YAH-B	1RH1						
1A3YAKP-A	1RH2						
1A3YAK-A	1RH2						

SALEM GENERATING STATION
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL WIRES FOR VALVES	CABLE FROM GENERIC GROUPINGS	AUX. BLDG. 45' & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YBU-A	11RH19	↓	↓	↓	↓	↓	↓
1B3YBX-B	12RH19						

SALEM GENERATING STATION
UNITS 1 AND 2
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
E/P CONVERTER	CONTROL FOR VALVES	E/P CONVERTER FISCHER-GOVERNOR 546	AUX. BLDG. 45'	RECIRC. $< 6 \times 10^6$ R	PAGE 30	BASIS #15	
	11RH20						
	11RH18						
	12RH18						

SALEM GENERATING STATION
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SYSTEM RESIDUAL HEAT REMOVAL SHEET 11 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL WIRES FOR VALVES	CABLE FROM GENERIC GROUPINGS	AUX. BLDG. 45' & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1ACS3C-DQ	1RH20						
1ACS33-AQ	11RH18						
1ACS33-BQ	12RH18						

SALEM GENERATING STATION
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
FA 2563 (FIC-641A)	11 RHR PUMP RECIRC. FLOW CONTROL	FLOW TRANSMITTER BARTON 289A	AUX. BLDG. 45'	RECIRC. < 6×10^6 R	PAGE 31	BASIS #16	
FA 2481 (FIC-641B)	12 RHR PUMP RECIRC. FLOW CONTROL	↓	↓	↓	↓	↓	
FA 0432 (FT-640)	RHR PUMPS DISCHARGE FLOW TO HOT LEGS	DIFFERENTIAL PRESSURE TRANSMITTER FISCHER-PORTER [ ] A,C	↓	↓	PAGE 58	BASIS #27 BASIS #1	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
FA 1416 (FT-956)	11 RHR DISCHARGE FLOW TO 11&13 COLD LEGS	DIFFERENTIAL PRESSURE TRANSMITTER FISCHER-PORTER [ ] A,C	AUX. BLDG. 45'	RECIRC. < 6x10⁶R	PAGE 58	BASIS #27 BASIS #1	
FA 1422 (FT-946)	11 RHR DISCHARGE FLOW TO 11&13 COLD LEGS	DIFFERENTIAL PRESSURE TRANSMITTER FISCHER-PORTER [ ] A,C			PAGE 59		
FA 1423 (FT-947)	12 RHR DISCHARGE FLOW TO 12&14 COLD LEGS						
FA 1419 (FT-957)	12 RHR DISCHARGE FLOW TO 12&14 COLD LEGS	DIFFERENTIAL PRESSURE TRANSMITTER FISCHER-PORTER [ ] A,C			PAGE 58		

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JS-586 (UNIT-1) JS-610 (UNIT-2)	ELECTRICAL CONNECTION FA 2569/1ACS29A-AT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) P.S.E.&G. DESIGN WITH BUCHANAN BLOCK(S) MODEL 2B112N	AUX. BLDG. 45'	RECIRC. $< 6 \times 10^6$ R	PAGE 64	BASIS #1	
JS-589 (UNIT-1) JS-613 (UNIT-2)	ELECTRICAL CONNECTION FA 2481/1ACS38A-BT	↓	↓	↓	↓	↓	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 102	ENCLOSURE FOR E/P FOR VALVE 12RH18 AND ELECTRICAL CONNECTION E/P (12RH18)/1ACS39-BQ	2 BAY INSTRUMENT PANEL P.S.E&G. DESIGN AND BUCHANAN BLOCK(S) MODEL 2B112N	AUX. BLDG. 45	RECIRC. <6X10⁶R	PAGE 62 AND PAGE 64	NONE	
	1ACS38A-BT/1ACS38-BT						
	1ACS37A-BQ/1ACS37-BQ						
	1ACS83A-BQ/1ACS83-BQ						
	1ACS84A-BQ/1ACS84-BQ						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 101	ENCLOSURE FOR E/P'S FOR VALVES 1RH20 11RH18 ELECTRICAL CONNECTIONS E/P (1RH20)/1ACS36-DQ E/P (11RH18)/1ACS33-AQ 1ACS29A-AT/1ACS29-AT 1ACS35A-AQ/1ACS35-AQ 1ACS81A-AQ/1ACS81-AQ	2 BAY INSTRUMENT PANEL PSE&G DESIGN AND BUCHANAN BLOCKS MODEL 2B112N	AUX. BLDG. 45	RECIRC. <6X10⁶R	PAGE 62 AND PAGE 64	NONE	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENT	CABLE FROM GENERIC GROUPINGS	AUX. BLDG.-45 AND OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1ACS29A-AT	FA 2569						
1ACS29 -AT	FA 2569						
1ACS38A-BT	FA 2481						
1ACS38 -BT	FA 2481						
1ACS37A-AQ	FA 0432						
1ACS37 -AQ	FA 0432						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENT	CABLE FROM GENERIC GROUPINGS	AUX. BLDG.-45 AND OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1ACS35A-AQ	FA 1416						
1ACS35 -AQ	FA 1416						
1ACS81A-AQ	FA 1422						
1ACS81 -AQ	FA 1422						
1ACS83A-BQ	FA 1423						
1ACS83 -BQ	FA 1423						
1ACS84A-BQ	FA 1419						
1ACS84 -BQ	FA 1419						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
LIMIT SWITCH FOR VALVES	CONTROL/POSITION INDICATION FOR VALVE	LIMITORQUE SMB (LIMITSWITCH INTERNAL TO MOTOR)	AUX. BLDG.-55	RECIRC. <7X10⁶R	PAGE 63	BASIS #1	
11RH4 12RH4	#11&12 RHR PUMP SUCTION VALVES						
11SJ44 12SJ44	CONTAINMENT SUMP SUCTION VALVES		AUX. BLDG.-45				
11SJ49 12SJ49	ISOLATION VALVES BETWEEN RHX'S AND COLD LEGS		MECH. PEN.-78	HEBA 212°F 1 PSIG <5X10⁷R			
1RH26	ISOLATION VALVE BETWEEN RHX'S AND HOT LEGS		CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R			

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
LIMIT SWITCHES FOR VALVES	CONTROL/POSITION INDICATION FOR VALVE	LIMITORQUE SMB (LIMIT SWITCH INTERNAL TO MOTOR)	AUX. BLDG.-45	RECIRC. <6X10⁶R	PAGE 63	BASIS #1	
11 RH 29 12 RH 29	11&12 RHX RECIRC. ISOLATION VALVES						
1 RH 1 1 RH 2	RHR PUMPS SUCTION FROM HOT LEGS ISOLATION VALVES		CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R			
11 RH 19 12 RH 19	RHX'S OUTLET CROSSCONNECT VALVES						
1 RH 20	RHX'S BYPASS VALVE		AUX. BLDG.-45	RECIRC <6X10⁶R			

SALEM GENERATING STATION
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SYSTEM RESIDUAL HEAT REMOVAL SHEET 21 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/INDICATION WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	AUX. BLDG.-55 AND OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YBF2-AT	11RH4						
1A3YBD2A-AT	11RH4						
1B3YBL2-BT	12RH4						
1B3YBH2A-BT	12RH4						
1A3YBE2P-AT	11SJ44		AUX. BLDG.-45 AND OTHERS				
1A3YBE2-AT	11SJ44						
1A3YBD2A-AT	11SJ44						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM RESIDUAL HEAT REMOVAL SHEET 22 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1ANN610P-GT	CONTROL/INDICATION WIRE FOR LIMIT SWITCH FOR VALVE 11SJ44	CABLE FROM GENERIC GROUPINGS	CONTAINMENT AUX. BLDG. 45 & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1ANN610-GT	11SJ44						
1ANN612P-GT	11SJ44						
1ANN612-GT	11SJ44						
1ANN599P-FT	11SJ44						
1ANN599-FT	11SJ44						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM RESIDUAL HEAT REMOVAL SHEET 23 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1ANN601-FT	CONTROL/INDICATION WIRE FOR LIMIT SWITCH FOR VALVE 11SJ44	CABLE FROM GENERIC GROUPINGS	CONTAINMENT AUX. BLD'G-45 & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1ANN601-FT	12SJ44						
1A3YAK2P-AT	12SJ44						
1A3YAK2-AT	12SJ44						
1A3YAK2A-AT	12SJ44						
1ACS73P-BT	12SJ44						
1ACS73-BT	12SJ44						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM RESIDUAL HEAT REMOVAL SHEET 24 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1B3YBH2P-BT	CONTROL/INDICATION WIRE FOR LIMIT SWITCH FOR VALVE 12SJ44	CABLE FROM GENERIC GROUPINGS	CONTAINMENT AUX. BLDG. 45' & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8PSIG $< 5 \times 10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1B3YBH2-BT	12SJ44						
1B3YBH2A-BT	12SJ44						
1ANN611P-GT	12SJ44						
1ANN611-GT	12SJ44						
1ANN600P-FT	12SJ44						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM RESIDUAL HEAT REMOVAL SHEET 25 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/INDICATION WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS		N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1ANN600-FT	12SJ44		MECH. PEN-78 & OTHERS				
1A3YAH2-AT	11SJ49						
1A3YAH2A-AT	11SJ49						
1ANN607-FT	11SJ49						
1ANN609-FT	11SJ49						
1ANN609-FT	12SJ49						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM RESIDUAL HEAT REMOVAL

SHEET 26 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/INDICATION WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	MECH. PEN-78 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1ANN619-GT	11SJ49						
1ANN621-GT	11SJ49						
1ANN621-GT	12SJ49						
1B3YBE2-BT	12SJ49						
1B3YBE2A-BT	12SJ49						
1ANN608-FT	12SJ49						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM RESIDUAL HEAT REMOVAL SHEET 27 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1ANN620-GT	CONTROL/INDICATION WIRE FOR LIMIT SWITCH FOR VALVE 12SJ49	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1C3YAV2P-CT	1RH26						
1C3YAV2-CT	1RH26						
1C3YAV2A-CT	1RH26						
1ANN490E-GT	1RH26						
1ANN490P-GT	1RH26						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM RESIDUAL HEAT REMOVAL SHEET 28 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1ANN490-GT	CONTROL/INDICATION WIRE FOR LIMIT SWITCH FOR VALVE 1RH26	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$R (CONTAINMENT ONLY	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1ANN491E-FT	1RH26						
1ANN491P-FT	1RH26						
1ANN491 - FT	1RH26						
1A3YBK2-AT	11RH29						
1A3YBK2A-AT	11RH29						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM RESIDUAL HEAT REMOVAL SHEET 29 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1B3YBT2-BT	CONTROL/INDICATION WIRE FOR LIMIT SWITCH FOR VALVE 12RH29	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1B3YBT2A-BT	12RH29						
1B3YAH2P-BT	1RH1						
1B3YAH2-BT	1RH1						
1B3YAH2A-BT	1RH1						
1ACS72P-AT	1RH1						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM RESIDUAL HEAT REMOVAL SHEET 30 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/INDICATION WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $<5\times10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1ACS72-AT	1RH1						
1A3YAK2P-AT	1RH2						
1A3YAK2-AT	1RH2						
1ACS73P-BT	1RH2						
1ACS73-BT	1RH2						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM RESIDUAL HEAT REMOVAL SHEET 31 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1A3YBK2A-AT	CONTROL/INDICATION WIRE FOR LIMIT SWITCH FOR VALVE 11RH19	CABLE FROM GENERIC GROUPINGS	AUX. BLDG. 45' AND OTHER AREAS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1B3YBX2-BT	12RH19	↓	↓	↓	↓	↓	↓
1ACS74-DT	1RH20	↓	↓	↓	↓	↓	↓

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM RESIDUAL HEAT REMOVAL SHEET 32 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PENET.	LOCA/MSLB 371°/350°F 43.2/42.8 PSIG $<5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET 1-37	1RH26	↓	↓	↓	↓	↓	↓
PENET 1-48	1RH26						
PENET 1-41	1RH1						
PENET 1-41	1RH2						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM RESIDUAL HEAT REMOVAL SHEET 33 OF 33

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES OF:	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PENET.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-43	1RH2						
PENET. 1-43	1RH1						
PENET 1-E1	11SJ44						
PENET 1-E2	12SJ44						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY SHEET 1 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
11 C.S. PUMP MOTOR	MOTOR	WESTINGHOUSE SPIN # UNIT #1 PSESIAPCS SPIN # UNIT #2 PNJSIAPCS	AUX. BLDG. 84	RECIRC. $<10^3$ R SHORT TERM.	PAGE 79	NONE	
12 C.S. PUMP MOTOR							

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY SHEET 2 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER CABLES FOR MOTOR FOR:	CABLE FROM GENERIC GROUPINGS	AUX. BLDG. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A2D-A	11 C.S. PUMP	↓	↓	↓	↓	↓	↓
1C2D-C	12 C.S. PUMP						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY

SHEET 3 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
FA 0218 (FT-930)	C.S. ADDITIVE TANK FLOW	DIFFERENTIAL PRESSURE TRANSMITTER F & P [ ]A,C	AUX. BLDG.-84	RECIRC. $<10^5$R SHORT TERM	PAGE 58	BASIS #27	
LA 0217 (LT-931)	C.S. ADDITIVE TANK LEVEL	LEVEL TRANSMITTER BARTON 332/352	AUX. BLDG.-84	RECIRC. $<10^3$R SHORT TERM	PAGE 53	BASIS #23	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY

SHEET 4 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JS-596 (UNIT #1) JS-620 (UNIT #2)	ELECTRICAL CONNECTION FA0218/ 1SI75A-AQ	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	AUX. BLDG.-84	RECIRC. <105R SHORT TERM	PAGE 64	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY

SHEET 5 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 211	ENCLOSURE FOR LA0217 AND ELECTRICAL CONNECTIONS LA0217 1SI75A-AQ / 1SI75-AQ	INSTRUMENT RACK PSE&G DESIGN AND BUCHANAN BLOCK 2B112N	AUX. BLDG. 84	RECIRC. $<10^3$R SHORT TERM	PAGE 62 AND PAGE 64	NONE NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY

SHEET 6 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENT	CABLE FROM GENERIC GROUPINGS	AUX. BLDG. 84 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SI75A-AQ	FA 0218						
1SI75-AQ	FA 0218						
1SI75-AQ	LA 0217						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY SHEET 7 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
11 CS36	11 RHX RECIRC. SPRAY ISOLATION VALVE	MOTOR OPERATED VALVE LIMITORQUE SMB2	MECH. PENET. 78'	HEBA 212°F 1 PSIG $<5 \times 10^7$ R	PAGE 63	BASIS #1	
12 CS36	12						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY

SHEET 8 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER CABLE FOR MOTOR OPERATED VALVE	CABLE FROM GENERIC GROUPINGS		N/A	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YAB-A	11CS36		ELECT. PENET. & OTHERS				
1B3YBK-B	12CS36		AUX. BLDG. & OTHERS				

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY SHEET 9 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	MOTORS FOR VALVES:	MOTOR OPERATED VALVE LIMITORQUE SMB					
11CS2	11 C.S. PUMP DISCH.		AUX. BLDG. 84'	RECIRC. $<10^3$ R SHORT TERM	PAGE 63	BASIS #1	
12CS2	12						
1CS17	C.S. SPRAY ADDITIVE TANK						
1CS16							
1CS14							

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY

SHEET 10 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER CABLES FOR MOTOR OPERATED VALVE	CABLE FROM GENERIC GROUPINGS		N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YBG-A	11CS2		AUX. BLDG.-84 & OTHERS				
1C3YBF-C	12CS2						
1C3YBE-C	1CS17						
1A3YBA-A	1CS16						
1B3YBJ-B	1CS14						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY SHEET 11 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER/CONTROL FOR MOTOR OPERATED VALVES:						
1A WEST MOTOR CONTROL CENTER	11CS2, 1CS16	GENERAL ELECTRIC 7700 LINE	AUX. BLDG. 84	RECIRC $<10^3$R	PAGE 74	NONE	
1B WEST MOTOR CONTROL CENTER	1CS14						
1C WEST MOTOR CONTROL CENTER	12CS2, 1CS17						
1A EAST MOTOR CONTROL CENTER	1CS36, 12CS36		ELEC. PEN.-78	RECIRC $<10^5$R		BASIS #7	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY SHEET 12 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE 11CS2 CONTAINMENT SPRAY PUMP DISCHARGE CONTROL/POSITION INDICATION FOR VALVE 12CS2 CONTAINMENT SPRAY PUMP DISCHARGE CONTROL/POSITION INDICATION FOR VALVE 1CS17 SPRAY ADDITIVE TANK DISCHARGE CONTROL/POSITION INDICATION FOR VALVE 1CS16 SPRAY ADDITIVE TANK DISCHARGE	LIMITORQUE LIMIT SWITCH INTERNAL TO MOTOR	AUX. BLDG. 84'	RECIRC. $< 10^3$R SHORT TERM	PAGE 63	BASIS #1	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY SHEET 13 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE 1CS14 CONTAINMENT SPRAY PUMP DISCHARGE	LIMITORQUE LIMIT SWITCH INTERNAL TO MOTOR	AUX. BLDG. 84'	RECIRC. $< 10^3$ R SHORT TERM	PAGE 63	BASIS #1	VALVE IS N.O. WITH POWER LOCKED OUT
	CONTROL/POSITION INDICATION FOR VALVE 11CS36 CONTAINMENT SPRAY PUMP DISCHARGE		MECH. PEN. 78'	HEBA 212°F 1 PSIG. $< 5 \times 10^7$ R			
	CONTROL/POSITION INDICATION FOR VALVE 12CS36 CONTAINMENT SPRAY PUMP DISCHARGE						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY SHEET 14 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR	CABLE FROM GENERIC GROUPINGS	AUX. BLDG. 84' & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YBG2-AT	11CS2						
1A3YBG2A-AT	11CS2						
1RP55-AT	11CS2						
1C3YBF2-CT	12CS2						
1C3YBF2A-CT	12CS2						
1RPG1-CT	12CS2						
1C3YBE2-CT	1CS17						
1C3YBE2A-CT	1CS17						
1RPG1-CT	1CS17						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY SHEET 15 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR	CABLE FROM GENERIC GROUPINGS	AUX. BLDG. 84 & OTHERS	N/A	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YBA2-AT	1CS16						
1A3YBA2A-AT	1CS16						
1EP55-AT	1CS16						
1B3YBJ2-BT	1CS14						
1ANN499-ET	1CS14						
1ANN496-GT	1CS14						
1B3YBJ2A-BT	1CS14						
1EP57-BT	1CS14						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT SPRAY SHEET 16 OF 16

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR	CABLE FROM GENERIC GROUPINGS	ELEC. PENET. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YAB2-AT	11CS36						
1B3YBK2-BT	12CS36		AUX. BLDG. & OTHERS				

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM COMPONENT COOLING SHEET 1 OF 5

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
11CC16	11 RESIDUAL HEAT EXCHANGER COMPONENT COOLING WATER	MOTOR OPERATED VALVE LIMITORQUE SMB-0	AUX. BLDG. 55'	RECIRC. $<7\times10^6$R SHORT TERM	PAGE C3	BASIS #1	
12CC16	12 RESIDUAL HEAT EXCHANGER COMPONENT COOLING WATER	↓	↓	↓	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM COMPONENT COOLING SHEET 2 OF 5

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER/CONTROL FOR MOTOR OPERATED VALVE	GENERAL ELECTRIC 7700 LINE	AUX. BLDG. 84'	RECIRC. $< 10^3$ R	PAGE 74	NONE	
1A WEST MOTOR CONTROL CENTER	11CC 16	↓	↓	↓	↓	↓	
1B WEST MOTOR CONTROL CENTER	12CC 16	———	———	———	———	———	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM COMPONENT COOLING SHEET 3 OF 5

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1A3YBD-A	POWER CABLE FOR VALVE 11CC16	CABLE FROM GENERIC GROUPINGS	AUX. BLDG.-55 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1B3YBU-B	12CC16	↓	↓	↓	↓	↓	↓

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM COMPONENT COOLING SHEET 4 OF 5

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POSITION INDICATION FOR VALVE 11CC16	LIMIT SWITCH LIMITORQUE LIMIT SWITCH INTERNAL TO MOTOR	AUX.BLDG.-55	RECIRC <7X10⁶R SHORT TERM	PAGE 63	BASIS #1	
	12CC16	↓	↓	↓	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM COMPONENT COOLING

SHEET 5 OF 5

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1A3YBD2-AT	CONTROL/INDICATION WIRE FOR LIMIT SWITCH FOR VALVE 11CC16	CABLE FROM GENERIC GROUPINGS	AUX. BLDG.-55 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YBD2A-AT	11CC16						
1B3YBD2-BT	12CC16						
1B3YBE2A-BT	12CC16						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 1 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CC117	RCP C.C.W. INLET ISOLATION	MOTOR OPERATED VALVE LIMITORQUE SMB-00	MECH. PEN.-78	HEBA 212°F 1 PSIG $<5\times10^7$ R	PAGE 63	BASIS #1	
1CC118							
1CC136	RCP C.C.W. OUTLET ISOLATION						
1CC187			CONT.	LOCA/MSLB 271°/350° F 43.2/42.8 PSIG $<5\times10^7$ R		BASIS #1 BASIS #28	
1CC131	RCP THERMAL BARRIER C.C.W. ISOLATION		MECH PEN.-78	HEBA 212°F 1PSIG $<5\times10^7$ R		BASIS #1	
1CC190			CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$ R		BASIS #1 BASIS #28	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 2 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1C WEST MOTOR CONTROL CENTER	POWER/CONTROL FOR MOTOR OPERATED VALVES 1CC117, 1CC136	GENERAL ELECTRIC 7700 LINE	AUX. BLDG.-84	RECIRC<10³R	PAGE 74	NONE	
1A EAST MOTOR CONTROL CENTER	1CC118, 1CC187, 1CC190		ELEC. PEN.-78	RECIRC<10⁶R		BASIS 7	
1C EAST MOTOR CONTROL CENTER	1CC131						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 3 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1C3YAK-C	POWER CABLE FOR VALVE 1CC117	CABLE FROM GENERIC GROUPINGS	MECH.PEN.-78 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YAN-A	1CC118						
1C3YAL-C	1CC136						
1A3YAPP-A	1CC187		CONT.				
1A3YAP-A	1CC187		ELEC.PEN.-78 & OTHERS				

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 4 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1C3YAS-C	POWER CABLE FOR VALVE 1CC131	CABLE FROM GENERIC GROUPINGS	MECH.PEN.-78 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YAMP-A	1CC190		CONT.				
1A3YAM-A	1CC190		ELEC.PEN.-78 & OTHERS				

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM Containment Isolation SHEET 5 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0688	PILOT VALVE CONTROL FOR ICC215 EXCESS LETDOWN H.X. C.C.W. INLET	SOLENOID VALVE ASCO FT831654	MECH AUX-78 ↓	HEBA 212°F 1 PSIG $< 5 \times 10^7$ R ↓	PAGE 96	BASIS #17 ↓	
SV0164	PILOT VALVE CONTROL FOR ICC113 EXCESS LETDOWN HX CCW OUTLET	ASCO FT831654 (UNIT #2) ASCO 831654 (UNIT #1)	———	———	PAGE 57 (UNIT #2) PAGE 91 (UNIT #1)	———	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 6 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 743	ENCLOSURE FOR SV0688 SV0164 AND ELECTRICAL CONNECTION SV0688 / SV0164 / 1AC586-AT	NEMA 12 INSTRUMENT ENCLOSURE PSE&G DESIGN AND BUCHANAN BLOCK 2B112N	MECH.PEN.-78	HEBA 212°F 1 PSIG < 5X10⁷R	PAGE 62 AND PAGE 64	NONE	
PANEL 311	ELECTRICAL CONNECTIONS 1AC586-AT / 1AC511-AT / 1AC512-AT / 1TRA1-AT	3 BAY INSTRUMENT PANEL AND BUCHANAN BLOCK 2B112N	MECH.PEN.-100	HEBA 285°F 1 PSIG < 5X10⁷R			

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 7 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1AC586-AT	CONTROL WIRE FOR SOLENOID SV0688 SV0164	CABLE FROM GENERIC GROUPINGS	MECH.PEN.-78 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS#1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1TRA1-AT	SV0688 SV0164						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 8 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE	LIMITORQUE LIMIT SWITCH INTERNAL TO MOTOR	MECH. PEN.-78	HEBA 212°F 1 PSIG $<5\times10^7$R	PAGE 63	BASIS #1	
	1CC117						
	1CC118						
	1CC136						
	1CC187		CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R		BASIS #1 BASIS #28	
	1CC131		MECH. PEN.-78	HEBA 212°F 1 PSIG $<5\times10^7$R		BASIS #1	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 9 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE	LIMIT SWITCH LIMITORQUE (LIMIT SWITCH INTERNAL TO MOTOR)	CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R	PAGE 63	BASIS #1 BASIS #2B	
	1CC190						
	1CC215	NAMCO D-2400X	MECH. PEN-78	HEBA 212°F 1 PSIG $<5\times10^7$R	PAGE 45	BASIS #1BA	
	1CC113						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 10 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	MECH. PEN-78 1 OTHERS	N/A	PAGE 67 THROUGH 73	BASIS #1	CABLE QUALIFIED TO WORST CASE ENVIRONMENT
1C3YAK2-CT	1CC117						
1C3YAK2A-CT	1CC117 1CC136						
1A3YAN2-AT	1CC118						
1A3YAN2A-AT	1CC118, 1CC187						
1C3AL2-CT	1CC136						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 11 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YAP2P-AT	ICC187						
1A3YAP2-AT	ICC187						
1C3YAS2-CT	ICC131						
1C3YAE2A-CT	ICC131						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 12 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YAM2P-AT	1CC190						
1A3YAM2-AT	1CC190						
1A3YAK2A-AT	1CC190						
1ACS17-AT	1CC215						
1TRA1-AT	1CC215, 1CC113						
1ACS12-AT	1CC113						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 13 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PENET. 1-43	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES OF POWER, CONTROL & POSITION INDICATION FOR ICC187 & ICC190	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PENET	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 14 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CV284	R.C.P. SEAL WATER DISCHARGE INSIDE ISOLATION	MOTOR OPERATED VALVE LIMITORQUE SMB-00	CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R	PAGE 63 ↓	BASIS #1 BASIS #28	
1CV116	R.C.P. SEAL WATER DISHARGE OUTSIDE ISOLATION	LIMITORQUE SMB-00 (#5)	MECH. PEN-78	HEBA 212°F 1 PSIG $<5\times10^7$R	———	BASIS #1	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 15 OF 96

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER/CONTROL FOR MOTOR OPERATED VALVE	GENERAL ELECTRIC 7700 LINE	ELEC. PEN-78	RECIRC. < 105 R	PAGE 74	BASIS #7	
1B EAST MOTOR CONTROL CENTER	1CV284	↓	↓	↓	↓	↓	
1C EAST MOTOR CONTROL CENTER	1CV116						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 16 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER CABLE FOR VALVE	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/62.8 PSIA $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1B3YALP-B	1CV284						
1B3YAL-B	1CV284						
1C3YAM-C	1CV116						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 17 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PENET. 1-41	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES OF POWER, CONTROL & POSITION INDICATION FOR VALVE 1CV284	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELECT. PENET.	LOCA/MSLB 271°/350° F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 18 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE ICV284	LIMITORQUE - LIMIT SWITCH INTERNAL TO MOTOR	CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R	PAGE 63	BASIS #1 BASIS #28	
	ICV116	↓	MECH. PEN.-78	HEBA 212°F 1PSIG <5X10⁷R	↓	BASIS #1	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 19 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1B3YAL2P-BT	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE 1CV284	CABLE FROM GENERIC GROUPINGS	CONTAINMENT *OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1B3YAL2-BT	1CVC284						
1C3YAM2-CT	1CVC116						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 20 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0491	PILOT VALVE CONTROL FOR ICV3 CVCS LETDOWN LINE	SOLENOID VALVE ASCO NP831654E	CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R	PAGE 60	BASIS #28	
SV0492	ICV4	↓	↓	↓	↓	↓	
SV0493	ICV5	↓	↓	↓	↓	↓	
SV0425	ICV7	ASCO LB831654 (UNIT #2) ASCO FT831654 (UNIT #1)	MECH. PEN. -100	HEBA 285°F 1 PSIG <5X10⁷R	PAGE 32 (UNIT #2) PAGE 57 (UNIT #1)	BASIS #17	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 21 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE 1CV3 1CV4 1CV5	LIMIT SWITCH NAMCO EA180-11302	CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R	PAGE 61	BASIS #29	
	1CV7	NAMCO D-2400X	MECH. PEN.-100	HEBA 285°F 1 PSIG <5X10⁷R	PAGE 45	BASIS #18A	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 22 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 238	ENCLOSURE FOR SV0491 SV0492 SV0493 AND ELECTRICAL CONNECTIONS SV0491 / ICVC49P-BT SV0492 ICVC51-AT / ICVC52P-BT SV0493 ICVC55-CT / ICVC56P-CT	2 BAY INSTRUMENT PANEL PSE&G DESIGN AND CABLE SPLICE RAYCHEM WCSF-N	CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5x10⁷R	PAGE 62 AND PAGE 65	BASIS #28 NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 23 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 311	ENCLOSURE FOR SV0425 AND ELECTRICAL CONNECTIONS SV0425 / ICVC35-GT / ICVC36-DT	3 BAY INSTRUMENT PANEL PSE&G DESIGN AND BUCHANAN BLOCK 2B112N	MECH. PEN. -100	HEBA 285°F 1 PSIG <5X10⁷R	PAGE 62 AND PAGE 69	NONE NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 24 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL WIRES FOR SOLENOID VALVES	CABLES FROM GENERIC GROUPINGS			PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CVC49P-BT	SV0491		CONTAINMENT +OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)			
1CVC49-BT	SV0491						
1CVC52P-BT	SV0492						
1CVC52-BT	SV0492						
1CVC56P-CT	SV0493						
1CVC56-CT	SV0493						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 25 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CVC36-DT	CONTROL WIRES FOR SOLENOID VALVE SV0425	CABLE FROM GENERIC GROUPINGS	MECH.PEN.-100 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 26 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
ICVC49P-BT	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE ICV3	CABLE FROM GENERIC GROUPINGS	CONTAINMENT + OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
ICVC49-BT	ICV3						
ICVC51-AT	ICV4						
ICVC52P-CT	ICV4						
ICVC52-AT	ICV4						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 27 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS			PAGES 67 THROUGH 73		CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CVC55-CT	1CV5		CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)		BASIS #1	
1CVC56P-CT	1CV5						
1CVC56-CT	1CV5						
1CVC35-GT	1CV7						
1CVC36-DT	1CV7						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM Containment Isolation SHEET 28 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PENET. 1-41	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES FOR CONTROL & POSITION INDICATION FOR VALVE 1CV3	CONTAINMENT ELECTRICAL PENETRATION	CONTAINMENT & ELEC. PENET.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $\leq 5 \times 10^7$R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-43	CONTROL & POSITION INDICATION FOR VALVE 1CV4						
PENET. 1-37	CONTROL & POSITION INDICATION FOR VALVE 1CV5						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 29 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	PILOT VALVE CONTROL FOR VALVE	SOLENOID VALVES ASCO					
SV0427	1SJ123 S.I TEST LINE INSIDE ISOL.	NP831654E	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8PSIG <5X10⁷R	PAGE 60	BASIS #28	
SV0114	1SJ53 S.I. TEST LINE OUTSIDE ISOL.	ASCO LB831654	MECH. PEN-78	HEBA 212°F 1-PSIG <5X10⁷	PAGE 32	BASIS #17	
SV0575	1SJ60 S.I. TEST LINE OUTSIDE ISOL.	ASCO LB831654 (UNIT #2) FT831654 (UNIT #1)	MECH. PEN-100	HEBA 285°F 1-PSIG <5X10⁷	PAGE 32 (UNIT #2) PAGE 57 (UNIT #1)		
SV0249	INT32 ACCUMULATOR N₂ SUPPLY OUTSIDE ISOL.	ASCO 831654			PAGE 91		

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 30 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 245	ENCLOSURE FOR SV0427 AND ELECTRICAL CONN'S. SV0427 1SI86B-AT/1SI86P-AT	1-BAY INSTRUMENT PANEL P.S.E.&G. DESIGN AND SPLICE RAYCHEM WCSF-N	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R	PAGE 62 AND PAGE 65	BASIS # 28 NONE	
PANEL 208	ENCLOSURE FOR SV0114 AND ELECTRICAL CONN'S. SV0114 1SI123A-DT/1SI123-DT	INSTRUMENT ENCLOSURE P.S.E.&G. DESIGN AND BUCHANAN BLOCK 2B112N	MECH. PEN-78	HEBA 212°F 1-PSIG <5X10⁷R	PAGE 62 AND PAGE 64		

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 31 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 311	ENCLOSURE FOR SV0575 SV0249	3 BAY ELECTRICAL PANEL P.S.E.&G. DESIGN	MECH. PEN.-100	HEBA 285°F 1-PSIG <5X10⁷R	PAGE 62	NONE	
	AND	AND			AND		
	ELECTRICAL CONN's. SV0575 1SI113-BT/ITRBI-BT	BUCHANAN BLOCK 2B112N			PAGE 64	NONE	
	SV0249 1SI84-AT/ITRAI-AT						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 32 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL WIRES FOR SOLENOID VALVES						
1SI86P-AT	SV0427	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350° F 43.2/42.8 PSIG <5x10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SI86-AT	SV0427						
1SI123-DT	SV0114						
1TRB1-BT	SV0575						
1TRA1-AT	SV0249						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES OF CONTROL & POSITION INDICATION FOR VALVE	CONTAINMENT ELECTRICAL PENET.					
PENET. 1-43	1SJ 123	CONAX CANISTER TYPE	CONTAINMENT & ELECT. PENET.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5 \times 10^7$R CONTAINMENT ONLY	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 34 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE 1SJ123	LIMIT SWITCH NAMCO EA180-11302	CONTAINMENT	LOCA/MSLB 271°/350° 43.2/42.8 PSIG <5X10⁷R	PAGE 61	BASIS #29	
	1SJ53	NAMCO D-2400X	MECH. PEN:-78	HEBA 212°F 1-PSIG <5X10⁷R	PAGE 45	BASIS #18A	
	1SJ60		MECH. PEN:-100	HEBA 285°F 1-PSIG <5X10⁷R			
	INT32						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 35 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE						
1SI86B-AT	1SJ123	CABLE FROM GENERIC GROUPINGS	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SI86P-AT	1SJ123						
1SI86-AT	1SJ123						
1SI123A-DT	1SJ53						
1SI123-DT	1SJ53						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 36 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	MECH. PEN-100 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SI113-BT	1SJ60						
1TRB1-BT	1SJ60						
1SI84-AT	1NT32						
1TRA1-AT	1NT32						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 37 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0706	PILOT VALVE CONTROL FOR 11GB4 11 S.G. BLOW DOWN ISOLATION	SOLENOID VALVE ASCO FT-8321A2	MECH. PEN.-100	HEBA 285°F 1 PSIG $<5\times10^7$ R	PAGE 39	BASIS #17	
SV0707	12GB4 12 S.G. BLOW DOWN ISOLATION	↓	↓	↓	↓	↓	
SV0708	13GB4 13 S.G. BLOW DOWN ISOLATION	↓	↓	↓	↓	↓	
SV0709	14GB4 14 S.G. BLOW DOWN ISOLATION	↓	↓	↓	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 38 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL / POSITION INDICATION FOR VALVE 11GB4 12GB4 13GB4 14GB4	LIMIT SWITCH MASONEILAN 496-2	MECH. PEN. 100	HEBA 285°F 1 PSIG $<5\times10^7$ R	PAGE 44	BASIS #18A	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 39 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 325	ENCLOSURE FOR SV0706 SV0707 SV0708 SV0709 AND ELECTRICAL CONNECTIONS SV0706 SV0707 SV0708 SV0709 1GB2-CT 1GB3-CT 1GB4-CT 1GB5-CT 1GB1-CT	2 BAY INSTRUMENT PANEL PSE&G DESIGN AND BUCHANAN BLOCK 2B112N	MECH.PEN.100	HEBA 285°F 1 PSIG <5X10⁷R	PAGE 62 AND PAGE 64	NONE NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 40 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1GB1-CT	CONTROL WIRES FOR SOLENOID VALVES SV0706 SV0707 SV0708 SV0709	CABLE FROM GENERIC GROUPINGS	MECH. PEN-100 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 41 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1GB2-CT	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE 11GB4	CABLE FROM GENERIC GROUPINGS	MECH. PEN-78 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1GB3-CT	12GB4						
1GB4-CT	13GB4						
1GB5-CT	14GB4						
1GB1-CT	11GB4 12GB4 13GB4 14GB4		MECH. PEN-100 & OTHERS				

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 42 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0510	PILOT VALVE CONTROL FOR 1155594 SAMPLE LINES FOR S.G. BLOWDOWN OUTSIDE ISOLATION	SOLENOID VALVE ASCO FT8320A101	MECH. PEN-78	HEBA 212°F 1PSIG $<5\times10^7$R	PAGE 38	BASIS #17	
SV0511	1255594	↓	↓	↓	↓	↓	
SV0512	1355594	↓	↓	↓	↓	↓	
SV0513	1455594	↓	↓	↓	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 43 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVES 1 1 5 5 9 4 1 2 5 5 9 4 1 3 5 5 9 4 1 4 5 5 9 4	LIMIT SWITCH MASONEILAN 496-2	MECH. PEN-78	HEBA 212°F 1 PSIG $< 5 \times 10^7$ R	PAGE 44	BASIS #18A	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 44 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0514	PILOT VALVE CONTROL FOR 1SS64 SAMPLE LINE FROM PRESSURIZER STEAM SPACE OUTSIDE ISOLATION	SOLENOID VALVE ASCO L8X83146	MECH. PEN. 78	HEBA 212°F 1PSIG $< 5 \times 10^7$R	PAGE 37	BASIS #17	
SV0515	1SS49 SAMPLE LINE FROM PRESSURIZER LIQUID OUTSIDE ISOLATION						
SV0516	1SS33 SAMPLE LINE FROM HOT LEGS OUTSIDE ISOLATION						
SV0517	1SS27 SAMPLE LINE FROM ACCUMULATORS OUTSIDE ISOLATORS						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 45 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POSITION INDICATION FOR VALVES 15564 15549 15533 15527	LIMIT SWITCH NAMCO D-2400X	MECH. PEN.-78	HEBA 212°F 1 PSIG $<5\times10^7$R	PAGE 45	BASIS #18 A	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 46 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 218	RACK FOR SV0510 SV0511 SV0512 SV0513 SV0514 SV0515 SV0516 SV0517 AND	INSTRUMENT RACK AND	MECH. PEN. 78'	HEBA 212°F 1 PSIG. $< 5 \times 10^7$ R	PAGE 62 AND	NONE	
	ELECTRICAL CONNECTION SV0510 SV0511 SV0512 SV0513 15547-BT 15548-BT 15549-BT 15550-BT / 15546-BT	TERMINAL BLOCK(S) BUCHANAN MODEL 2B112N			PAGE 64		

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 47 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFI-CATION	OUTSTANDING ITEMS	REMARKS
PANEL 218 (CONT'D)	ELECTRICAL CONNECTIONS SV0514 SV0515 SV0516 SV0517 1SS51-BT 1SS52-BT 1SS53-BT 1SS54-BT 1SS45-BT						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 48 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1SS46-BT	CONTROL WIRES FOR SOLENOID VALVES SV0510 SV0511 SV0512 SV0513	CABLES FROM GENERIC GROUPINGS	MECH. PEN-78 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SS45-BT	SV0514 SV0515 SV0516 SV0517						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 49 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1SS47-BT	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE 11SS94	CABLES FROM GENERIC GROUPINGS	MECH. PEN-78 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SS48-BT	12SS94	↓	↓	↓	↓	↓	↓
1SS49-BT	13SS94	↓	↓	↓	↓	↓	↓
1SS50-BT	14SS94	↓	↓	↓	↓	↓	↓
1SS46-BT	11SS94 12SS94 13SS94 14SS94	↓	↓	↓	↓	↓	↓

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 50 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POSITION INDICATION WIRE FOR LIMIT SWITCH FOR VALVE	CABLES FROM GENERIC GROUPINGS	MECH. PEN. 78' & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SS51-BT	1SS64	↓	↓	↓	↓	↓	↓
1SS52-BT	1SS49						
1SS53-BT	1SS33						
1SS54-BT	1SS27						
1SS45-BT	1SS64 1SS49 1SS33 1SS27						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 51 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	PILOT VALVE CONTROL FOR	SOLENOID VALVE ASCO 206-381-3F	CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5 \times 10^7$ R	PAGE 60	BASIS #28	
SV0518	1SS110 SAMPLE LINE FROM PRESSURIZER STEAM SPACE INSIDE ISOL.						
SV0519	1SS107 SAMPLE LINE FROM PRESSURIZER LIQUID INSIDE ISOLATION						
SV0520	1SS104 SAMPLE LINE FROM HOT LEGS INSIDE ISOLATION						
SV0521	1SS103 SAMPLE LINE FROM ACCUMULATORS INSIDE ISOLATION						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 52 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POSITION INDICATION FOR VALVE	LIMIT SWITCH NAMCO D-2400X	CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R	PAGE 99	BASIS #18B	ONLY POSITION INDICATION - ADDRESSED IN RESPONSE TO FSAR Q7.35
	1SS110	↓	↓	↓	↓	↓	↓
	1SS107						
	1SS104						
	1SS103						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 53 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JT-479 (UNIT 1) JT-480 (UNIT 2)	ELECTRICAL CONNECTIONS 1SS65-AT / 1SS30P-AT, 1SS31P-AT, 1SS32P-AT 1SS37-AT, 1SS38-AT / 1SS30P-AT 1SS36-AT / 1SS31P-AT 1SS39-AT / 1SS32P-AT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCKS 2B112 N	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R	PAGE 64	NONE	

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 54 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0399	PILOT VALVE CONTROL FOR 1WL98 N_2 SUPPLY TO R.C.D.T. INSIDE ISOLATION	SOLENOID VALVE ASCO 206-381-3F	CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 60	BASIS #28	
SV0397	1WL12 R.C.D.T. PUMP DISCH. INSIDE ISOLATION						
SV0394	1WL16 REACTOR CAVITY SUMP PUMP DISCHARGE TO WASTE DISPOSAL INSIDE ISOLATION	ASCO 206-381-3F (UNIT #2) 206-381-6F (UNIT #1)					
SV0401	1WL96 GAS ANALYZER FROM R.C.D.T. INSIDE ISOL.	ASCO 206-381-3F					

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 55 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL / POSITION INDICATION FOR VALVE IWL98	LIMIT SWITCH NAMCO EA180-14302 EA180-15302 (EA180-11302 UNIT #2)	CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$ R	PAGE 61	BASIS #29	
	IWL12	NAMCO EA180-14302 EA180-24302			PAGE 61	NONE	
	IWL16	MASONEILAN 496-2			PAGE 77	BASIS #18B	
	IWL96	NAMCO EA180-14302 EA180-15302 (EA180-11302 UNIT #2)			PAGE 61	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 56 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 241	ENCLOSURE FOR SV0518 SV0519 SV0520 SV0521 SV0399 SV0397 SV0394 SV0401	4 BAY INSTRUMENT PANEL PSE&G DESIGN	CONTAINMENT	LOCA/MSLB 270°/350° F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 62	BASIS #28	
	AND	AND			AND		
	ELECTRICAL CONNECTIONS SV0518 SV0519 SV0520 SV0521 / 1SS65-AT	RAYCHEM WCSF-N SPLICES AND BUCHANAN BLOCKS 2B112N			PAGE 65 AND PAGE 64	NONE NONE	
	SV0399 SV0397 SV0394 SV0401 1WD10-CT 1WD12-CT 1WD9-CT 1WD3-CT / 1WD4P-CT						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 57 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL WIRES FOR SOLENOID VALVES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.3/42.8 PSIG. $<5\times10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SS65-AT	SV0518 SV0519 SV0520 SV0521	↓	↓	↓	↓	↓	↓
1SS30P-AT	SV0518 SV0519						
1SS30-AT	SV0518 SV0519						
1SS31P-AT	SV0520						
1SS31-AT	SV0520						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 58 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL WIRES FOR SOLENOID VALVES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SS32P-AT	SV0521	↓	↓	↓	↓	↓	↓
1SS32-AT	SV0521						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 53 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POSITION INDICATION WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271 /350°F 43.2/42.8 PSIG <5x10⁷R (CONTAINMENT ONLY)	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
15537-AT	155110						
15538-AT	155107						
15530P-AT	155110 155107						
15530-AT	155110 155107						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 60 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POSITION INDICATION WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SS36-AT	1SS104						
1SS31P-AT	1SS104						
1SS31-AT	1SS104						
1SS39-AT	1SS103						
1SS32P-AT	1SS103						
1SS32-AT	1SS103						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 61 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PENET. 1 - 14	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES FOR CONTROL & POSITION INDICATION FOR VALVES 1SS110, 1SS107, 1SS104 & 1SS103	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT (ELEC. PENET.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 62 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL WIRES FOR SOLENOID VALVES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1WD4P-CT	SV0399 SV0397 SV0394 SV0401						
1WD4-CT	SV0399 SV0897 SV0394 SV0401						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 63 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1WD10-CT	1WL98						
1WD12-CT	1WL12						
1WD9-CT	1WL16						
1WD3-CT	1WL96						
1WD4P-CT	1WL98 1WL12 1WL16 1WL96						
1WD4-CT	1WL98 1WL12 1WL16 1WL96						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 64 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PENET. 1-16	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES FOR CONTROL & POSITION INDICATION FOR VALVES 1WL98 1WL12 1WL16 1WL96	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT ELEC. PENET.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 65 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0805	PILOT VALVE CONTROL FOR IVC4 PURGE AIR OUTLET OUTSIDE ISOLATION	SOLENOID VALVE ASCO NT 834475	MECH. PEN. 100'	HEBA 285°F 1 PSIG $< 5 \times 10^7$ R	PAGE 36	BASIS #17	
SV1024		ASCO NT834477			PAGE 35		
SV0803	IVC3 PURGE AIR OUTLET INSIDE ISOLATION	ASCO NP8344A74E	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/428 PSIG $< 5 \times 10^7$ R	PAGE 60	NONE	
SV1022		ASCO NP8344A76E					

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 66 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVES	LIMIT SWITCH MASONEILAN 496-2	MECH. PEN. 100'	HEBA 285°F 1 PSIG $< 5 \times 10^7$ R	PAGE 44	BASIS #18A	
	1VC1						
	1VC2		CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/428 PSIG $< 5 \times 10^7$ R	PAGE 77	BASIS #18B	
	1VC3						
	1VC4		MECH. PEN. 100'	HEBA 285°F 1 PSIG $< 5 \times 10^7$ R	PAGE 44	BASIS #18A	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 67 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFI-CATION	OUTSTANDING ITEMS	REMARKS

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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 68 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0804	PILOT VALVE CONTROL FOR IVC1 PURGE AIR INLET OUTSIDE ISOLATION	SOLENOID VALVE UNIT-1- ASCO HTX 834477 UNIT-2- ASCO NT8344A75	MECH. PEN. 100'	HEBA 285°F 1 PSIG $< 5 \times 10^7$ R	PAGE 35B (UNIT-1) PAGE 94 (UNIT-2)	BASIS #17	
SV1023	↓	UNIT-1- ASCO HTX8344A75 UNIT-2- ASCO HT8344A77	↓	↓	PAGE 34A (UNIT-1) PAGE 93 (UNIT-2)	↓	
SV0802	IVC2 PURGE AIR INLET INSIDE ISOLATION	ASCO NP 8344A74E	CONTAINMENT	LOCA / MSLB 271° / 350°F 43.2 / 42.8 PSIG $< 5 \times 10^7$ R	PAGE 60	NONE	
SV1021	↓	ASCO NP 8344A76E	↓	↓	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 69 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SOLENOID JUNCTION BOX FOR 1VC1	ENCLOSURE FOR 1VC1 L. SW. SV0804 SV1023 AND ELECTRICAL CONNECTIONS 1VC1 L. SW. / SV0804 SV1023 / 1VNT21A-BT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK 2B112N AND RAYCHEM CABLE SPLICES WCSF-N	MECH. PENET. 100'	HEBA 285°F 1 PSIG $< 5 \times 10^7$ R	PAGE 64 AND PAGE 65	NONE	
SOLENOID JUNCTION BOX FOR 1VC4	ENCLOSURE FOR 1VC4 L. SW. SV0805 SV1024 AND ELECTRICAL CONNECTIONS 1VC4 L. SW. / SV0805 SV1024 / 1VNT21B-BT						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 70 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SOLENOID JUNCTION BOX FOR IVC2	ENCLOSURE FOR IVC2 L. SW. SV0802 SV1021 AND ELECTRICAL CONNECTIONS IVC2 L. SW. SV0802 SV1021 / IVNT26PA-AT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCKS 2B112N AND RAYCHEM CABLE SPLICES WCSF-N	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $\angle$ 5×10^7 R	PAGE 64 AND PAGE 65	NONE	
SOLENOID JUNCTION BOX FOR IVC3	ENCLOSURE FOR IVC3 L. SW. SV0803 SV1022 AND ELECTRICAL CONNECTIONS IVC3 L. SW. SV0803 SV1022 / IVNT26PB-AT						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 71 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFI-CATION	OUTSTANDING ITEMS	REMARKS
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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 72 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JT-527(UNIT1) JT-529(UNIT2)	ELECTRICAL CONNECTIONS IVNT21A-BT / IVNT21B-BT / IVNT21-BT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK: 2B112N	MECH. PENET. 100'	HEBA 285°F 1 PSIG $< 5 \times 10^7$ R	PAGE 64	NONE	
JT-526(UNIT1) JT-528(UNIT2)	ELECTRICAL CONNECTIONS IVNT26PA-AT / IVNT26PB-AT / IVNT26-AT	↓	CONTRINMENT	LOCA/MSLB 271°/350° F 43.2/42.8 PSIG $< 5 \times 10^7$ R	↓	↓	

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 73 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFI-CATION	OUTSTANDING ITEMS	REMARKS
		INTENTIONALLY	LEFT	BLANK			

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 74 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL WIRES FOR SOLENOID VALVES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1VNT21A-BT	SV0804 SV1023						
1VNT21B-BT	SV0805 SV1024						
1VNT21-BT	SV0804 SV1023 SV0805 SV1024						
1VNT26PA-AT	SV0802 SV1021						
1VNT26PB-AT	SV0803 SV1022						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM Containment Isolation SHEET 75 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	Control wires for solenoid valves	Cables from Generic Groupings	Containment & others	LOCA/MSLB 271 / 350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (Containment only)	Pages 67 through 73	Basis #1	Cabling qualified to worst case environment
1VNT26P-AT	SV0802						
	SV1021						
	SV0803						
	SV1022						
1VNT26-AT	SV0802						
	SV1021						
	SV0803						
	SV1022						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 76 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL / SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	MECH. PENET. 100'# OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1VNT21A-BT	1VC1						
1VNT21B-BT	1VC4						
1VNT21-BT	1VC1 1VC4						
1VNT26PA-AT	1VC2		CONTAINMENT	LOCA / MSLB 271°/350°F 43.2 / 42.8 PSIG $< 5 \times 10^7$ R			
1VNT26PB-AT	1VC3						
1VNT26-AT	1VC2 1VC3						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION SHEET 77 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1VNT26-AT	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE 1VC2 1VC3	CABLE FROM GENERIC GROUPINGS	ELEC. PENET. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 78 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFI-CATION	OUTSTANDING ITEMS	REMARKS
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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM Containment Isolation SHEET 79 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
Penet. 1-14	Electrical connection for associated cables for control & position indication for valves 1VC2 1VC3	Containment electrical penetration Conax Cannister Type	Containment & elec. penet	LOCA/MSLB 271/350°F 43.2/42.8 Psig $<5\times10^7$R (Containment only)	Page 66	NONE	Qualified to worst case Environment

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT ISOLATION

SHEET 80 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0558	Pilot VALVE CONTROL FOR 11CA330 INSTRUMENT AIR OUTSIDE ISOLATION	SOLENOID VALVE ASCO X8342B22	MECH. PEN.-100	HEBA 285°F 1 PSIG <5X10⁷R	PAGE 33	BASIS #17	
SV0559	12CA330 INSTRUMENT AIR OUTSIDE ISOLATION		MECH. PEN.-78	HEBA 212°F 1 PSIG <5X10⁷R			

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
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SYSTEM CONTAINMENT ISOLATION

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POSITION INDICATION FOR VALVE 11CA330	LIMIT SWITCH MASONEILAN 496-2	MECH. PEN-100	HEBA 285°F 1 PSIG <5X10⁷R	PAGE 44	BASIS #18A	
	12CA330	↓	MECH. PEN-78	HEBA 212°F 1 PSIG <5X10⁷R	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL-713	ENCLOSURE FOR SV0658 AND ELECTRICAL CONNECTIONS SV0658 1CA2B-AT / 1CA2L-AT	INSTRUMENT ENCLOSURE PSE&G DESIGN AND BUCHANAN BLOCK 2B112N	MECH. PEN.-100	HEBA 285°F 1 PSIG $<5\times10^7$ R	PAGE 62 AND PAGE 64	NONE	
PANEL-714	ENCLOSURE FOR SV0659 AND ELECTRICAL CONNECTIONS SV0659 1CA2J-BT / 1CA2M-BT		MECH. PEN.-78	HEBA 212°F 1 PSIG $<5\times10^7$ R			

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CA2L-AT	CONTROL WIRES FOR SOLENOID VALVES SV0558	CABLES FROM GENERIC GROUPINGS	MECH. PEN. 100 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CA2M-BT	SV0559	↓	MECH. PEN. 28 & OTHERS	↓	↓	↓	↓

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
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SYSTEM CONTAINMENT ISOLATION SHEET 84 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CA2B-AT	POSITION INDICATION WIRE FOR LIMIT SWITCH FOR VALVE 11CA330	CABLE FROM GENERIC GROUPINGS	MECH.PEN.-100 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CA2L-AT	11CA330						
1CA2J-BT	12CA330		MECH.PEN.-78 & OTHERS				
1CA2M-BT	12CA330						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

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SYSTEM CONTAINMENT ISOLATION SHEET 85 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0395	PILOT VALVE CONTROL FOR 1WL17 REACTOR CAVITY SUMP PUMP DISCHARGE TO WASTE DISPOSAL OUTSIDE ISOLATION	SOLENOID VALVE ASCO HV202-302-1F (UNIT 2) ASCO FT8321A2 (UNIT 1)	MECH.PEN.-100	HEBA 285°F 1 PSIG <5X10⁷R	PAGE 34 (UNIT 2) PAGE 39 (UNIT 1)	BASIS # 17	
SV0402	1WL108 N_2 SUPPLY R.C.D.T. OUTSIDE ISOLATION	ASCO FT8321A2			PAGE 39		
SV0396	1WL13 RCDT PUMP DISCH. OUTSIDE ISOLATION	ASCO LB8300B64RU (UNIT 2) ASCO FT8321A2 (UNIT 1)			PAGE 95 (UNIT 2) PAGE 39 (UNIT 1)		
SV0400	1WL97 GAS ANALYZER FROM R.C.D.T. OUTSIDE ISOL.	ASCO FT8314B6			PAGE 97		
SV0398	1WL99 R.C.D.T. VENT OUTSIDE ISOLATION	ASCO FT8321A2			PAGE 39		

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

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SYSTEM CONTAINMENT ISOLATION SHEET 86 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL / POSITION INDICATION FOR VALVE 1WL17 1WL108 1WL13 1WL97 1WL99	LIMIT SWITCH MASONEILAN 496-2 NAMCO D-2400X-ST & D-2400X-ST-SR	MECH. PEN-78	HEBA 212°F 1 PSIG $<5\times10^7$ R	PAGE 44 PAGE 42,43	BASIS #18A	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JT-56 (UNIT 1) JT-57 (UNIT 2)	ELECTRICAL CONN. 1WD25-BT 1WD15-BT 1WD29-BT 1WD65-BT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCKS 2B112N	MECH. PEN. - 78	HEBA 212°F 1PSIG <5X10⁷R	PAGE 64	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 311	ENCLOSURE FOR SV0395 SV0402 SV0396 SV0400 SV0398 AND ELECTRICAL CONNECTIONS SV0395 SV0402 SV0396 SV0400 SV0398 1WD65-BT/1WD16-BT	3 BAY INSTRUMENT PANEL PSE&G DESIGN AND BUCHANAN BLOCKS 2B112N	MECH. PEN.-100	HEBA 285°F 1PSIG $<5\times10^7$R	PAGE 62 AND PAGE 64	NONE NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1WD16-BT	CONTROL WIRES FOR SOLENOID VALVES SV0395 SV0402 SV0396 SV0400 SV0398	CABLES FROM GENERIC GROUPINGS	MECH.PEN.100 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
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SHEET 90 OF 126

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/SIGNAL WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	MECH. PEN. 78 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1WD25-BT	1WL17 1WL97						
1WD15-BT	1WL108 1WL99						
1WD29-BT	1WL13						
1WD65-BT	1WL17 1WL108 1WL13 1WL97 1WL99						
1WD16-BT	1WL17 1WL108 1WL13 1WL97 1WL99						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	PILOT VALVE CONTROL FOR	SOLENOID VALVE ASCO	MECH.PEN.-100	HEBA	PAGE 94	BASIS #17	
SV0928	IVC5 PRESSURE + VACUUM RELIEF DAMPER	HT8344A75		285°F 1 PSIG <5X10⁷R			
SV1025	IVC5	ASCO HTX834475 (UNIT 1)			PAGE 94 (UNIT 2) PAGE 3EA (UNIT #1)		
SV0927	IVC6	ASCO NP8344A74E	CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG	PAGE 60	NONE	
SV1026	IVC6	ASCO NP8344A76E		<5X10⁷R		NONE	

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SALEM GENERATING STATION
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVES IVC5	LIMIT SWITCH MASONEILEN 496-2	MECH.PEN.-100	HEBA $<10^5$R	PAGE 44	BASIS #18A	
	IVC6	↓	CONT.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R	PAGE 77	BASIS #18B	

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UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFI-CATION	OUTSTANDING ITEMS	REMARKS
SOLENOID VALVE JUNCTION BOX	ENCLOSURE FOR SV0928 SV1025 L.SW FOR IVCS AND ELECTRICAL CONNECTION SV0928 SV1025 L.SW(IVCS) / IVNT20A-BT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE+G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	MECH. PEN.-100	HEBA 285°F 1 PSIG <5X10⁷R	PAGE 64	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 317	ELECTRICAL CONNECTION IVNT20A-BT/ /IVNT20-BT	INSTRUMENT RACK PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	MECH.PEN.-100	HEBA 285°F 1 PSIG <5X10⁷R	PAGE 62 PAGE 64	NONE NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SOLENOID VALVE JUNCTION BOX	ENCLOSURE FOR SV0927 SV1026 L.SW. FOR 1VC6 AND ELECTRICAL CONNECTION SV0927 SV1026 L.SW.(1VC6) / 1VNT29PA-CT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) P.S.E.&G DESIGN WITH BUCHANAN BLOCK(S) MODEL 2811ZN	CONTAINMENT	LOCA / MSLB 271°/350°F 13.2/42.8 PSIG < 5×10^7 R	PAGE 64	NONE	
JT 524 (UNIT-1) JT 525 (UNIT-2)	ELECTRICAL CONNECTION 1VNT29PA-CT / 1VNT29P-CT						

SALEM GENERATING STATION
UNITS 1 AND 2
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ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PENET. 1-16	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES FOR CONTROL & POSITION INDICATION FOR VALVE 1VC6	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PEN.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1VNT20A-BT	CONTROL WIRE FOR SOLENOID VALVES SV0928 SV1025 AND CONTROL/INDICATION WIRE FOR LIMIT SWITCH FOR VALVE	CABLE FROM GENERIC GROUPINGS	MECH. PEN. 100' & OTHERS	N/A	PAGE 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1VNT20-BT							

SALEM GENERATING STATION
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EQUIPMENT QUALIFICATION -
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1VNT29PA-CT	Control wire for solenoid valves SV0927 & SV1026 & Control/Indication wire for limit switch for valve	Cable from generic groupings	Containment & others	LOCA/MSLB 271°/350°F 43.2/42.8PSIG <5X10⁷R (Containment only)	Pages 67 through 73	Basis #1	Cabling qualified to worst case environment
1VNT29P-CT	↓	↓	↓	↓	↓	↓	↓
1VNT29-CT							

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	PILOT VALVE CONTROL FOR CONTAINMENT ATMOS. SAMPLE OUT ISOLATION VALVE	SOLENOID VALVES					
SV1077	1VC7 11 - REGULAR CONTROL	ASCO 206-381-6F	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 60	NONE	
SV1078	1VC8 12 - REGULAR CONTROL	ASCO X 8342B3 (UNIT #2) LB831654 (UNIT #1)	ELEC. PENET.	RECIRC. $< 10^5$ R	PAGE 89 (UNIT #2) PAGE 32 (UNIT #1)	BASIS #17	
SV1079	1VC9 11 - BACK-UP CONTROL	ASCO 206-381-6F	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 60	NONE	
SV1080	1VC10 12 - BACK-UP CONTROL	ASCO X 834283 (UNIT #2) LB831654 (UNIT #1)	ELEC. PENET.	RECIRC. $< 10^5$ R	PAGE 89 (UNIT #2) PAGE 32 (UNIT #1)	BASIS #17	

SALEM GENERATING STATION
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVES 1VC7	LIMIT SWITCH NAMCO EA180-11302	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R	PAGE 61	NONE	
	1VC8	NAMCO D-2400X	ELEC. PENET.	RECIRC. $<10^5$R	PAGE 45	BASIS #18A	
	1VC9	NAMCO EA180-11302	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R	PAGE 61	NONE	
	1VC10	NAMCO D-2400X	ELEC. PENET.	RECIRC. $<10^5$R	PAGE 45	BASIS #18A	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCKS PSE&G DESIGN WITH BUCHANAN BLOCK(S) 28112N			PAGE 64	NONE	
JT-576 (UNIT #1)	1RMS111-BT/ /1RMS106P-BT		CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R			
JT-578 (UNIT #2)	2RMC4PB-BT/ /2RMC4P-BT						
JT-580 (UNIT #1)	1RMS94-AT/ /1RMS91-AT		ELEC. PENET.	RECIRC. $<10^5$R			
JT-582 (UNIT #2)	2RMC2B-AT/ /2RMC2-AT						

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SALEM GENERATING STATION
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S)			PAGE 64	NONE	
JT-577 (UNIT #1) JT-579 (UNIT #2)	1RMS177-CT/1RMS176P-CT 2RMC3PB-CT/2RMC3P-CT	P.S.E & G. DESIGN WITH BUCHANAN BLOCK(S) 28112N	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R			
JT-581 (UNIT #1) JT-583 (UNIT #2)	1RMS181-CT/1RMS179-CT 2RMC1B-CT/2RMC1-CT		ELEC. PENET.	RECIRC. $< 10^5$ R			

SALEM GENERATING STATION
UNITS 1 AND 2
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES FOR CONTROL AND POSITION INDICATION FOR VALVES	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT'S ELECT. PEN.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG. $<5\times10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET 1-41	1VC7						
PENET 1-37	1VC9						

SALEM GENERATING STATION
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ENVIRONMENTAL

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1RMS111-BT (UNIT #1) 2RMC4PB-BT (UNIT #2) 1RMS106P-BT (UNIT #1) 2RMC4P-BT (UNIT #2) 1RMS106-BT (UNIT #1) 2RMC4-BT (UNIT #2)	CONTROL WIRES FOR SOLENOID VALVE SV1077 AND CONTROL/INDICATION WIRES FOR LIMIT SWITCH FOR VALVE 1VC7	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
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ENVIRONMENTAL

MASTER LIST
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1RMS94-AT (UNIT #1) 2RMC2B-AT (UNIT #2) 1RMS91-AT (UNIT #1) 2RMC2-AT (UNIT #2)	CONTROL WIRES FOR SOLENOID VALVE SV1078 AND CONTROL/INDICATION WIRES FOR LIMIT SWITCH FOR VALVE 1VC8	CABLE FROM GENERIC GROUPINGS	ELEC. PEN. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1RMS177-CT (UNIT #1) 2RMC3PB-CT (UNIT #2) 1RMS176P-CT (UNIT #1) 2RMC3P-CT (UNIT #2) 1RMS176-CT (UNIT #1) 2RMC3-CT (UNIT #2)	CONTROL WIRES FOR SOLENOID VALVE SV10T9 AND CONTROL/INDICATION WIRES FOR LIMIT SWITCH FOR VALVE 1VC9	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG. $< 5 \times 10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1RMS181-CT (UNIT #1) 2RMC18-CT (UNIT #2) 1RMS179-CT (UNIT #1) 2RMC1-CT (UNIT #2)	CONTROL WIRES FOR SOLENOID VALVE SV1080 AND CONTROL/INDICATION WIRES FOR LIMIT SWITCH FOR VALVE 1VC10	CABLE FROM GENERIC GROUPINGS	ELEC. PENET. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV1081	PILOT VALVE CONTROL FOR CONTAINMENT ATMOS. SAMPLE INLET ISOL. VALVE IVC11 11-REGULAR CONTROL	SOLENOID VALVES ASCO 206-381-6F	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$ R	PAGE 60	NONE	
SV1082	IVC12 12-REGULAR CONTROL	ASCO X8342B3 (UNIT #2) LB831654 (UNIT #1)	ELEC. PENET.	RECIRC $<10^5$ R	PAGE 89 (UNIT #2) PAGE 32 (UNIT #1)	BASIS #17	
SV1083	IVC13 11-BACK-UP CONTROL	ASCO 206-381-6F	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$ R	PAGE 60	NONE	
SV1084	IVC14 12-BACK-UP CONTROL	ASCO X8342B3 (UNIT #2) LB831654 (UNIT #1)	ELEC. PENET.	RECIRC $<10^5$ R	PAGE 89 (UNIT #2) PAGE 32 (UNIT #1)	BASIS #17	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL / POSITION INDICATION FOR VALVES IVC11	LIMIT SWITCH NAMCO EA180-11302	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R	PAGE 61	NONE	
	IVC12	NAMCO D-2400X	ELEC. PENET.	RECIRC <10⁵R	PAGE 45	BASIS #18A	
	IVC13	NAMCO EA180-11302	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R	PAGE 61	NONE	
	IVC14	NAMCO D-2400X	ELEC. PENET.	RECIRC <10⁵R	PAGE 45	BASIS #18A	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JT-576 (UNIT #1)	ELECTRICAL CONNECTIONS 1RMS110-BT/1RMS106P-BT	JUNCTION BOX WITH INTEGRAL TERM. BLOCK(S) PSE & G DESIGN WITH BUCHANAN BLOCK(S) 28112N	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $<5 \times 10^7$ R	PAGE 64	NONE	
JT-578 (UNIT #2)	2RMC4PA-BT/2RMC4P-BT	↓	↓	↓	↓	↓	
JT-580 (UNIT #1)	1RMS93-AT/1RMS91-AT	↓	ELEC. PEN.	RECIRC. $<10^5$ R	↓	↓	
JT-582 (UNIT #2)	2RMC2A-AT/2RMC2-AT	↓	↓	↓	↓	↓	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG <5X10⁷R	PAGE 64	NONE	
JT-577 (UNIT #1)	1RMS178-CT/1RMS176P-CT						
JT-579 (UNIT #2)	2RMC3PA-CT/2RMC3P-CT						
JT-581 (UNIT #1)	1RMS180-CT/1RMS179-CT		ELEC. PEN.	RECIRC. <10⁵R			
JT-583 (UNIT #2)	2RMC1A-CT/2RMC1-CT						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR CONTROL & POSITION INDICATION FOR VALVES	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PENET.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-41	1VC11						
PENET. 1-37	1VC13						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1RMS110-BT (UNIT #1) 2RMC4PA-BT (UNIT #2) 1RMS106P-BT (UNIT #1) 2RMC4P-BT (UNIT #2) 1RMS106-BT (UNIT #1) 2RMC4P-BT (UNIT #2)	CONTROL WIRES FOR SOLENOID VALVE SV1077 AND CONTROL/INDICATION WIRES FOR LIMIT SWITCH FOR VALVE 1VC7	CABLE FROM GENERIC GROUPING	CONTAINMENT AND OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1RMS93-AT (UNIT #1) 2RMC2A-AT (UNIT #2) 1RMS91-AT (UNIT #1) 2RMC2-AT (UNIT #2)	CONTROL WIRES FOR SOLENOID VALVE SV1078 AND CONTROL/INDICATION WIRES FOR LIMIT SWITCH FOR VALVE 1VC8	CABLE FROM GENERIC GROUPINGS	ELEC. PEN. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1RMS178-CT (UNIT #1) 2RMC3PA-CT (UNIT #2) 1RMS176P-CT (UNIT #1) 2RMC3P-CT (UNIT #2) 1RMS176-CT (UNIT #1) 2RMC3-CT (UNIT #2)	CONTROL WIRES FOR SOLENOID VALVE SV1079 AND CONTROL/INDICATION WIRES FOR LIMIT SWITCH FOR VALVE IVC9	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1RMS180-CT (UNIT #1) 2RMC1A-CT (UNIT #2) 1RMS179-CT (UNIT #1) 2RMC1-CT (UNIT #2)	CONTROL WIRES FOR SOLENOID VALVE SV1080 AND CONTROL/INDICATION WIRES FOR LIMIT SWITCH FOR VALVE 1VC10	CABLE FROM GENERIC GROUPINGS	ELEC. PEN #OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	PILOT VALVE CONTROL FOR	SOLENOID VALVE					
SV0505	1PR18 PRESSURIZER RELIEF TANK TO GAS ANALYZER OUTSIDE ISOLATION	ASCO LBX83146 (UNIT1) ASCO LB8314B6 (UNIT2)	MECH. PEN. 78	HEBA 212°F 1 PSIG <5X10⁷R	PAGE 37 (UNIT1) PAGE 103 (UNIT2)	BASIS 17	
SV0506	1PR17 PRESSURIZER RELIEF TANK TO GAS ANALYZER INSIDE ISOLATION	ASCO 206-381-3F	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R	PAGE 60	NONE	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	PILOT VALVE CONTROL FOR	SOLENOID VALVE					
SV0423	INT25 NITROGEN SUPPLY TO PRESSURIZER RELIEF TANK OUTSIDE ISOLATION	ASCO FT8314B6	MECH. PEN:-100	HEBA 285°F 1PSIG <5X10⁷R	PAGE 97	BASIS 17	
SV0507	1WR80 PRIMARY WATER MAKE-UP STOP TO PRESSURIZER RELIEF OUTSIDE ISOLATION	ASCO FT8321A2 (UNIT 1) ASCO HV202-302-1F (UNIT 2)	MECH. PEN.-78	HEBA 212°F 1PSIG <5X10⁷R	PAGE 39 (UNIT 1) PAGE 34 (UNIT 2)		

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POSITION INDICATION FOR VALVE 1PR18 PRESSURIZER RELIEF TANK TO GAS ANALYZER OUTSIDE ISOLATION	LIMIT SWITCH MICROSWITCH LSQ051	MECH.PEN.-78	HEBA 212°F 1PSIG <5X10⁷R	PAGE 102	BASIS # 18A	
	1PR17 PRESSURIZER RELIEF TANK TO GAS ANALYZER INSIDE ISOLATION		CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R	PAGE 101	BASIS # 18B	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVE 1NT25 NITROGEN SUPPLY TO PRESSURIZER RELIEF TANK OUTSIDE ISOLATION	LIMIT SWITCH NAMCO D2400X-ST AND D2400X-ST-SR	MECH. PEN-78	HEBA 212°F 1PSIG <5X10⁷R	PAGES 42 AND 43	BASIS #18A	
	1WR80 PRIMARY WATER MAKE-UP STOP TO PRESSURIZER RELIEF OUTSIDE ISOLATION						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S)			PAGE 64	NONE	
JN-141 (UNIT #1) JN-149 (UNIT #2)	1PRZ47A-BT/1PRZ47-BT	PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	MECH. PEN. - 78	HEBA 212°F 1PSIG <5X10⁷R			
JN-142 (UNIT #1) JN-145 (UNIT #2)	1PRZ45A-BT/1PRZ45-BT						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JN-140 (UNIT #1) JN-148 (UNIT #2)	ELECTRICAL CONNECTIONS SV0506 L.SW. 1PR17 / 1PRZ43P-AT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N AND RAYCHEM SPLICES WCSF-N	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG. $< 5 \times 10^7$ R	PAGE 64 PAGE 65	NONE	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFI-CATION	OUTSTANDING ITEMS	REMARKS
PENET. 1-14	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR CONTROL AND POSITION INDICATION FOR 1PR17	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PENET.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG. <5X10⁷R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 311	ENCLOSURE FOR SV0423 AND ELECTRICAL CONNECTIONS SV0423 / IPRZ40-BT / ITRB1-BT	3 BAY INSTRUMENT PANEL PSE&G DESIGN AND BUCHANAN BLOCKS) 2B112N	MECH. PEN-100 ↓	HEBA 285°F 1PSIG <5X10⁷R ↓	PAGE 62 PAGE 64	NONE ↓	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL / POSITION INDICATION WIRES FOR VALVES	CABLES FROM GENERIC GROUPINGS	MECH. PEN. 78 & 100 & OTHERS	HEBA 285°F 1PSIG $<5X10^7R$	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1PRZ47A-BT	1PR18						
1PRZ47-BT							
1TRB1-BT	1NT25						
1PRZ40-BT							
1PRZ45A-BT	1WR80						
1PRZ45-BT							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1PRZ43P-AT 1PRZ43-AT	CONTROL / POSITION INDICATION WIRES FOR VALVES 1PR17 ↓	CABLES FROM GENERIC GROUPINGS ↓	CONTAINMENT & OTHERS ↓	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY) ↓	PAGES 67 THROUGH 73 ↓	BASIS #1 ↓	CABLING QUALIFIED TO WORST CASE ENVIRONMENT ↓

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
#11 FAN COOLER UNIT MOTOR	MOTIVE POWER FOR FAN COOLER UNIT	WESTINGHOUSE SPIN #PSE-RCADCF(UNIT#1) SPIN #PN-J-RCADCF(UNIT#2)	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG <5X10⁷R	PAGE 75	BASIS #1	
#12 FAN COOLER UNIT MOTOR	↓	↓	↓	↓	↓	↓	
#13 FAN COOLER UNIT MOTOR	↓	↓	↓	↓	↓	↓	
#14 FAN COOLER UNIT MOTOR	↓	↓	↓	↓	↓	↓	
#15 FAN COOLER UNIT MOTOR	↓	↓	↓	↓	↓	↓	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1A4XP-A	POWER CABLE FOR #11 FAN COOLER UNIT MOTOR	POWER CABLE FROM GENERIC GROUPINGS	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $<5\times10^7$ R	PAGES 67 THOUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A4X-A	#11		ELECT. PENET. & OTHERS	N/A			
1A2XP-A	#11						
1A2X-A	#11						
1B4XP-B	#12						
1B4X-B	#12						
1B2XP-B	#12						
1B2X-B	#12						
1C4XP-C	#13						
1C4X-C	#13						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1C2XP-C	POWER CABLE FOR #13 FAN COOLER UNIT MOTOR	POWER CABLE FROM GENERIC GROUPINGS	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $<5\times10^7$ R	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1C2X-C	#13		ELECT. PENET. & OTHERS	N/A			
1B8XP-B	#14						
1B8X-B	#14						
1B6XP-B	#14						
1B6X-B	#14						
1C8XP-C	#15						
1C8X-C	#15						
1C6XP-C	#15						
1C6X-C	#15						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV0920	PILOT VALVE FOR #11 FAN COOLER UNIT DAMPERS	SOLENOID VALVES ASCO NP8344A78E	CONTAINMENT (INSTR. PANEL)	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $<5X10^7$ R	PAGE 60	NONE	
SV0921	#12						
SV0922	#13						
SV0923	#14						
SV0924	#15						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 440-A	ENCLOSURE FOR SV0920 AND ELECTRICAL CONNECTION SV0920/1VNT2PD-AT	NEMA 12 INSTRUMENT ENCLOSURE P.S.E & G. DESIGN AND CABLE SPLICE RAYCHEM WICSF-N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 62 AND PAGE 65	NONE	
PANEL 440-B	ENCLOSURE FOR SV0921 AND ELECTRICAL CONNECTION SV0921/1VNT7PD-BT						
PANEL 440-C	ENCLOSURE FOR SV0922 AND ELECTRICAL CONNECTION SV0922/1VNT12PD-CT						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 440 D	ENCLOSURE FOR SV0923 AND ELECTRICAL CONNECTION SV0923/1VNT17PD-BT	NEMA 12 INSTRUMENT ENCLOSURE P.S.E.&G DESIGN AND CABLE SPLICE RAYCHEM WCSF-N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 62 AND PAGE 65	NONE	
PANEL 440-E	ENCLOSURE FOR SV0924 AND ELECTRICAL CONNECTION SV0924/1VNT22PD-CT						

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MASTER LIST
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ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT VENTILATION

SHEET 7 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SV 1120	PILOT VALVE FOR 11SW65 FAN COOLER UNIT FLOW CONTROL	SOLENOID VALVE ASCO X8342 B22	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG. $<5 \times 10^7$ R	PAGE 92	BASIS #19	
SV 1121	12 SW65	↓	↓	↓	↓	↓	
SV 1122	13 SW65						
SV 1123	14 SW65						
SV 1124	15 SW65						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

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SYSTEM CONTAINMENT VENTILATION SHEET 8 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JT-455 (UNIT 1) JT-460 (UNIT 2)	ELECTRICAL CONNECTIONS 1VNT2PD-AT/1VNT2P-AT 1VNT2PE-AT/1VNT2P-AT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) P.S.E & G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $<5 \times 10^7$R	PAGE 64	NONE	
JT-456 (UNIT 1) JT-461 (UNIT 2)	1VNT7PD-BT/1VNT7P-BT 1VNT7PE-BT/1VNT7P-BT						
JT-457 (UNIT 1) JT-462 (UNIT 2)	1VNT12PD-CT/1VNT12P-CT 1VNT12PE-CT/1VNT12P-CT						
JT-468 (UNIT 1) JT-463 (UNIT 2)	1VNT17PD-BT/1VNT17P-BT 1VNT17PE-BT/1VNT17P-BT						
JT-459 (UNIT 1) JT-464 (UNIT 2)	1VNT22PD-CT/1VNT22P-CT 1VNT22PE-CT/1VNT22P-CT						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

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UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT VENTILATION SHEET 9 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1VNT2PD-AT	CONTROL WIRE FOR SV0920	CONTROL CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED FOR WORST CASE ENVIRONMENT
1VNT2PE-AT	SV1120						
1VNT2P-AT	SV0920, SV1120						
1VNT2-AT	SV0920, SV1120						
1VNT7PD-BT	SV0921						
1VNT7PE-BT	SV1121						
1VNT7P-BT	SV0921, SV1121						
1VNT7-BT	SV0921, SV1121						
1VNT12PD-CT	SV0922						
1VNT12PE-CT	SV1122						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

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ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
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SYSTEM CONTAINMENT VENTILATION SHEET 10 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1VNT12P-CT	CONTROL WIRE FOR SV0922, SV1122	CONTROL CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED FOR WORST CASE ENVIRONMENT
1VNT12-CT	SV0922, SV1122						
1VNT17PD-BT	SV0923						
1VNT17PE-BT	SV1123						
1VNT17P-BT	SV0923, SV1123						
1VNT17-BT	SV0923, SV1123						
1VNT22PD-CT	SV0924						
1VNT22PE-CT	SV1124						
1VNT22P-CT	SV0924, SV1124						
1VNT22-CT	SV0924, SV1124						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

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ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
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UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT VENTILATION SHEET 11 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTION FOR CABLES PENETRATING CONTAINMENT	CONTAINMENT ELECTRICAL PENETRATION	CONTAINMENT/ ELECT. PENET.	LOCA/MSLB 271/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-64	1A4XP-A/1A4X-A	CONAX CANISTER TYPE					
PENET. 1-34	1B4XP-B/1B4X-B						
PENET. 1-1	1C4XP-C/1C4X-C						
PENET. 1-49	1B8XP-B/1B8X-B 1VNT7P-BT/1VNT7-BT 1VNT17P-BT/1VNT17-BT						
PENET. 1-23	1C8XP-C/1C8X-C						
PENET. 1-43	1VNT2P-AT/1VNT2-AT						
PENET. 1-37	1VNT12P-CT/1VNT12-CT 1VNT22P-CT/1VNT22-CT						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

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SYSTEM CONTAINMENT VENTILATION

SHEET 12 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	PILOT VALVE FOR 11 FAN COOLER UNIT BACKPRESSURE VALVE	SOLENOID VALVE ASCO X8342B22	MECH. PEN.-78	NEBA 212-285°F 1PSIG <5X10⁷R	PAGE 92	BASIS #19	
SV1115	115W57						
SV1116	125W57						
SV1117	135W57		MECH. PEN.-100				
SV1118	145W57		MECH. PEN.-78				
SV1119	155W57		MECH. PEN.-100				

SALEM GENERATING STATION
UNITS 1 AND 2
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ENVIRONMENTAL

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SYSTEM CONTAINMENT VENTILATION

SHEET 13 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
FA3160Z-1	#11 FAN COOLER UNIT FLOW/PRESSURE CONTROL 11SW223	DIFFERENTIAL PRESSURE TRANSMITTER FISCHER & PORTER [ ]A,C	MECH. PEN. 78	HEBA 212°F 1 PSIG <5X10⁷R	PAGE 58	BASIS #27	
FA3160Z-2		SQUARE ROOT EXTRACTOR FISCHER & PORTER 50ES3212	MECH. PEN. 78 (INSTR. PANEL)		PAGE 47	BASIS #20	
FA3160C-1		FLOW CONTROLLER FISCHER & PORTER 53 EG 3000			PAGE 48		
FA3160C-2 FA3160C-3 E/P		ELECTRIC-PNEUMATIC CONVERTER FISCHER & PORTER 53EI3000			PAGE 49		
SV0621		SOLENOID VALVE ASCO X8342B22			PAGE 92	BASIS #19, 20	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

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SYSTEM CONTAINMENT VENTILATION SHEET 14 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
FA3165Z-1	*12 FAN COOLER UNIT FLOW/PRESSURE CONTROL 12SW223	DIFFERENTIAL PRESSURE TRANSMITTER FISCHER & PORTER [ ]A,C	MECH. PEN. 78	HEBA 212°F 1 PSIG <5X10⁷R	PAGE 58	BASIS #27	
FA3165Z-2		SQUARE ROOT EXTRACTOR FISCHER & PORTER 50ES3212	MECH. PEN. 78 (INSTR. PANEL)		PAGE 47	BASIS #20	
FA3165C-1		FLOW CONTROLLER FISCHER & PORTER 53EG3000			PAGE 48		
FA3165C-2 FA3165C-3 E/P		ELECTRIC - PNEUMATIC CONVERTER FISCHER & PORTER 53EI3000			PAGE 49		
SV0624		SOLENOID VALVE ASCO X8342B22			PAGE 92	BASIS #19, 20	

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SALEM GENERATING STATION
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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
FA3169Z-1	#13 FAN COOLER UNIT FLOW/PRESSURE CONTROL 13SW223	DIFFERENTIAL PRESSURE TRANSMITTER FISHER & PORTER [ ]A,C	MECH. PEN. 100	HEBA 285°F 1-PSIG <5X10⁷R	PAGE 58	BASIS #27	
FA3169Z-2		SQUARE ROOT EXTRACTOR FISHER & PORTER 50ES3212	MECH. PEN. 100 (INSTR. PANEL)		PAGE 47	BASIS #20	
FA3169C-1		FLOW CONTROLLER FISHER & PORTER 53EG3000			PAGE 48		
FA3169C-2							
FA3169C-3							
E/P		ELECTRIC-PNEUMATIC CONVERTER FISHER & PORTER 53EI3000			PAGE 49		
SV0627		SOLENOID VALVE ASCO X8342B22			PAGE 92	BASIS #19,20	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
FA3172Z-1	#14 FAN COOLER UNIT FLOW/PRESSURE CONTROL 14SW223	DIFFERENTIAL PRESSURE TRANSMITTER FISHER & PORTER [ ]A,C	SW VALVE RM. -78	RECIRC. <5X10⁷R	PAGE 58	BASIS #27	
FA3172Z-2		SQUARE ROOT EXTRACTOR FISHER & PORTER 50ES3212	MECH. PEN.-78 (INSTR. PANEL)	HEBA 212°F 1 PSIG <5X10⁷R	PAGE 47	BASIS #20	
FA3172C-1		FLOW CONTROLLER FISHER & PORTER 53EG3000			PAGE 48		
FA3172C-2							
FA3172C-3							
E/P		ELECTRIC-PNEUMATIC CONVERTER FISHER & PORTER 53EI3000			PAGE 49		
SV0630		SOLENOID VALVE ASCO X8342B22			PAGE 92	BASIS #19, 20	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
FA3176Z-1	#15 FAN COOLER UNIT FLOW/PRESSURE CONTROL 15SW223	DIFFERENTIAL PRESSURE TRANSMITTER FISHER & PORTER [ ]A,C	SW VALVE RM. -78	RECIRC <5X10⁷R	PAGE 58	BASIS #27	
FA3176Z-2		SQUARE ROOT EXTRACTOR FISHER & PORTER 50ES3212	MECH. PEN.-100 (INSTR. PANEL)	HEBA 285°F 1-PSIG <5X10⁷R	PAGE 47	BASIS #20	
FA3176C-1		FLOW CONTROLLER FISHER & PORTER 53EG3000			PAGE 48		
FA3176C-2							
FA3176C-3							
E/P		ELECTRIC-PNEUMATIC CONVERTER FISHER & PORTER 53EI3000			PAGE 49		
SV0633		SOLENOID VALVE ASCO X8342B22			PAGE 92	BASIS #19, 20	

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SYSTEM CONTAINMENT VENTILATION

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 224-A	ENCLOSURE FOR FA3160 Z2 C-1 C-2 C-3 E/P (11SW223) SV0621 SV1115 AND ELECTRICAL CONNECTIONS FA3160 Z-2 C-1 IVNT67-AQ & C-2 C-3 1AVAC25-AT IVNT67A-AQ/FA3160 Z2 SV0621 SV1115 IVNT3-AT PLUS INTER CONNEC. AMONG INSTR.	SINGLE BAY INSTRUMENT PANEL, P.S.E.&G. DESIGN AND TERMINAL BLOCK(S) BUCHANAN ZB112N	MECH. PEN.-T8	HCBA 212°F 1.7PSIG <5X10⁷R	PAGE 62 AND PAGE 64	NONE NONE	

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SYSTEM CONTAINMENT VENTILATION SHEET 19 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 224-B	ENCLOSURE FOR FA 3165 Z2 C1 C2 C3 E/P (12SW223) SV 0624 SV 1116 AND ELECTRICAL CONNECTIONS FA3165 Z-2 C-1 / 1VNT6B-BQ C-2 & C-3 / 1BVAC23-BT 1VNT6BA-BQ/FA3165Z-2 SV0624 / SV 1116 / 1VNT8-BT PLUS INTERCONNEC. AMONG. INSTR.	SINGLE BAY INSTRUMENT PANEL PSE&G DESIGN AND TERMINAL BLOCK(S) BUCHANAN 28112N	MECH. PEN.-78	HEBA 212°F 1 PSIG <5x10⁷R	PAGE 62 AND PAGE 64	NONE NONE	

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SYSTEM CONTAINMENT VENTILATION SHEET 20 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 316-A	ENCLOSURE FOR FA 3169 Z-2 C-1 C-2 C-3 E/P (13SW223) SV 0627 SV 1117 AND ELECTRICAL CONNECTIONS FA 3169 Z-2 / C-1, C-2, C-3 / IVNT69-CQ & IC VAC23-CT IVNT69A-CQ/FA3169Z-2 SV 0627 / SV 1117 / IVNT13-CT PLUS INTERCONNEC. AMONG INSTR.	SINGLE BAY INSTRUMENT PANEL PSE&G DESIGN TERMINAL BLOCK(S) BUCHANAN 2B112N	MECH. PEN. 100	HEBA 285°F 1 PSIG $<5\times10^{7}$R	PAGE 62 AND PAGE 64	NONE NONE	

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SYSTEM CONTAINMENT VENTILATION SHEET 21 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 224-C	ENCLOSURE FOR FA 3172 Z-2 C-1 C-2 C-3 E/P (145W223) SV 0630 SV 1118 AND ELECTRICAL CONNECTIONS FA 3172 Z-2 / C-1 / C-2 / C-3 / 1VNT70-BQ & 1BVAC25-BT 1VNT 70A-BQ/FA3172Z-2 SV 0630 / SV 1118 / 1VNT1B-BT PLUS INTERCONNEC. AMONG INSTR.	SINGLE BAY INSTRUMENT PANEL PSE&G DESIGN AND TERMINAL BLOCK(s) BUCHNANAN 2B112N	MECH. PEN. - 78	HEBA 212°F 1 PSIG $\angle 5 \times 10^7$ R	PAGE 62 AND PAGE 64	NONE NONE	

SALEM GENERATING STATION
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SYSTEM CONTAINMENT VENTILATION

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 316-B	ENCLOSURE FOR FA 3176 Z-2 C-1 C-2 C-3 E/P (15SW223) SV 0633 SV 1119 AND ELECTRICAL CONNECTIONS FA 3176 Z-2 C-1, C-2, C-3 / 1VNT71-CQ & 1CVAC25-CT 1VNT71A-CQ/FA3176 Z-2 SV 0633, SV 1119 / 1VNT23-CT PLUS INTERCONNEC. AMONG INSTR.	SINGLE BAY INSTRUMENT PANEL PSE&G DESIGN AND TERMINAL BLOCK(S) BUCHANAN 2B112N	MECH. PEN. -100	HEBA 285°F 1PSIG $<5 \times 10^7$R	PAGE 62 AND PAGE 64	NONE NONE	

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SYSTEM CONTAINMENT VENTILATION SHEET 23 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
IVNT 67-AQ	SIGNAL WIRE FOR FA 3160 Z-2, C-1, C-2, C-3	INSTRUMENTATION CABLE FROM GENERIC GROUPINGS	MECH. PEN.-78 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED FOR WORST CASE ENVIRONMENT
IVNT 68-BQ	FA 3165 Z-2, C-1, C-2, C-3						
IVNT 69-CQ	FA 3169 Z-2, C-1, C-2, C-3		MECH. PEN.-100 & OTHERS				
IVNT 70-BQ	FA 3172 Z-2, C-1, C-2, C-3		MECH. PEN.-78 & OTHERS				
IVNT 71-CQ	FA 3176 Z-2, C-1, C-2, C-3		MECH. PEN.-100 & OTHERS				

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1AVAC25-AT	POWER WIRE FOR FA3160 Z-2, C-1, C-2, C-3	POWER CABLE FROM GENERIC GROUPINGS	MECH. PEN.-78 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED FOR WORST CASE ENVIRONMENT
1BVAC23-BT	FA3165 Z-2, C-1, C-2, C-3						
1CVAC23-CT	FA3169 Z-2, C-1, C-2, C-3		MECH. PEN.-100 & OTHERS				
1BVAC25-BT	FA3172 Z-2, C-1, C-2, C-3		MECH. PEN.-78 & OTHERS				
1CVAC25-BT	FA3176 Z-2, C-1, C-2, C-3		MECH. PEN.-100 & OTHERS				

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SALEM GENERATING STATION
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SYSTEM CONTAINMENT VENTILATION

SHEET 25 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S)	MECH. PEN.-78	HEBA 212-285°F 1 PSIG $<5\times10^7$R	PAGE 64	NONE	
JN-362 (UNIT 1) JN-363 (UNIT 2)	1VNT67C-AQ/1VNT67A-AQ	PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N					
JT-534 (UNIT1) JT-535 (UNIT2)	1VNT68C-BQ/1VNT68A-BQ 1VNT70C-BQ/1VNT70A-BQ						
JT-536 (UNIT1) JT-537 (UNIT2)	1VNT69C-CQ/1VNT69A-CQ 1VNT71C-CQ/1VNT71A-CQ		MECH. PEN.-100				

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SYSTEM Containment Ventilation SHEET 26 OF 27

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1VNT67A-AQ	SIGNAL WIRE FOR FA31602-1	INSTRUMENTATION CABLE FROM GENERIC GROUPINGS	MECH. PEN-78	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED FOR WORST CASE ENVIRONMENT
1VNT67C-AQ	FA31602-1						
1VNT68A-BQ	FA31652-1						
1VNT68C-BQ	FA31652-1						
1VNT69A-CQ	FA31692-1		MECH. PEN-100				
1VNT69C-CQ	FA31692-1						
1VNT70A-BQ	FA31722-1		MECH. PEN-78				
1VNT70C-BQ	FA31722-1						
1VNT71A-CQ	FA31762-1		MECH. PEN-100				
1VNT71C-CQ	FA31762-1						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1VNT3-AT	CONTROL WIRE FOR SV0621, SV1115	CONTROL CABLE FROM GENERIC GROUPINGS	MECH. PEN-78 & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1VNT8-BT	SV0624, SV1116						
1VNT13-CT	SV0627, SV1117		MECH. PEN-100 & OTHERS				
1VNT18-BT	SV0630, SV1118		MECH. PEN-78 & OTHERS				
1VNT23-CT	SV0633, SV1119		MECH. PEN-100 & OTHERS				

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SYSTEM COMBUSTIBLE GAS CONTROL SHEET 1 OF 7

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
		HYDROGEN ANALYZER BACHARACH SINGLE SETPOINT AC			PAGE 98		
XA-8650	SOUTHEAST COMBUSTABLE GAS DETECTOR	↓	CONTAINMENT ↓	LOCA/MSLB 271/350 °F 43.2/42.8 PSIG $< 5 \times 10^7$ R ↓	↓	BASIS #30 ↓	
XA-8651	NORTHWEST COMBUSTABLE GAS DETECTOR	———	———	———	———	———	

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ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM COMBUSTIBLE GAS CONTROL SHEET 2 OF 7

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR INSTRUMENTS	CABLES FROM GENERIC GROUPINGS	CONTAINMENT AND OTHER AREAS	LOCA / MSLB 271 / 350° F 43.2 / 42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 67 THROUGH 73	BASIS * 1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1VNT114-AQ 1VNT114P-AQ	XA-8650						
1VNT115-BQ 1VNT115P-BQ 1VNT115A-BQ	XA-8651						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM Combustible Gas Control SHEET 3 OF 7

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	Electrical Connection for Instrument Wires	Containment Electrical Penetration					
Penetration 1-65	1VNT114-BQ/1VNT1HP-BQ	Conax Canister Type	Containment # Elec. Pen.	LOCA/MSLB 271/350°F 43.2/42.8 PSIG. $< 5 \times 10^7$R (Containment Only)	Page 66	None	Qualified to worst case environment
Penetration 1-63	1VNT115-BQ/1VNT115P-BQ	↓	↓	↓	↓	↓	↓

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM COMBUSTIBLE GAS CONTROL SHEET 4 OF 7

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTION FOR INSTRUMENTS AND SIGNAL WIRES	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK					
JS-167 (UNIT 1) JS-168 (UNIT 2)	XA-8650/1VNT114P-AQ	BUCHANAN TERMINAL BLOCK 2B112N	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 64	NONE	
JS-169 (UNIT 1) JS-170 (UNIT 2)	1VNT115A-BQ/1VNT115B-BQ	↓	↓	↓	↓	↓	
JS-682	XA-8651/1VNT115A-BQ	↓	↓	↓	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM COMBUSTIBLE GAS CONTROL SHEET 5 OF 7

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
11 HYDROGEN RECOMBINER	REMOVAL OF H_2 FROM CONTAINMENT ATMOSPHERE	WESTINGHOUSE STURTEVANT	CONTAINMENT	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 76	BASIS #1	
12 HYDROGEN RECOMBINER	↓	↓	↓	↓	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM COMBUSTIBLE GAS CONTROL SHEET 6 OF 7

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER CABLES FOR HYDROGEN RECOMBINERS	CABLE FROM GENERIC GROUPINGS					CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A15XA-A 1A15XAP-A	11 H_2 RECOMBINER		CONTAINMENT AND OTHER AREAS	LOCA/MSLB 271/350°F 43.2/42.8 PSIG $<5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 67 THROUGH 73	BASIS #1	
1B15XA-B 1B15XAP-B	12 H_2 RECOMBINER						

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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONBUSTIBLE GAS CONTROL SHEET 7 OF 7

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS FOR HYDROGEN RECOMBINER CABLES	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT + ELEC. PEN.	LOCA / MSLB 271 / 350°F 43.2 / 42.8 PSIG 4.5 X 10^7 R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENETRATION 1-57	1A15XA-A/1A15XAP-A						
PENETRATION 1-50	1B15XA-B/1B15XAP-B						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 1 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
TA4312	CONTAINMENT AIR TEMPERATURE WEST	THERMOCOUPLE TEM TEX CO. 304-250-T-G-12-SA2-1H CC-TC	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$R	PAGE 80	BASIS #32	
TA4313							
TA4314	SOUTH						
TA4315							
TA4316	EAST						
TA4318							
TA4348							

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 2 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
TA4319	CONTAINMENT AIR TEMPERATURE NORTH	THERMOCOUPLE TEM TEX CO. 304-250-T-G-12-SA2-1H CC-TC	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 80	BASIS #32	
TA4320							
TA4321	NORTHWEST						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 3 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PENET. 1-29	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES FOR THERMOCOUPLE TA 4312	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT ELECTRICAL PENETRATION	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
	TA 4313						
	TA 4320						
	TA 4321						
PENET 1-62	TA 4314						
	TA 4315						
	TA 4316						
	TA 4318						
	TA 4348						
	TA 4319						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 4 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	ELECTRICAL PENET. -78	RECIRC. $< 10^5$ R	PAGE 64	NONE	
JX-56(UNIT#1) JX-94(UNIT#2)	ICP482F-GQ ICP482G-GQ ICP482C-GQ ICP482D-GQ / ICP482-GQ						
JX-57(UNIT#1) JX-95(UNIT#2)	ICP483G-HQ ICP483F-HQ ICP483D-HQ ICP483A-HQ ICP483C-HQ ICP483B-HQ / ICP483-HQ						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 5 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CP482FP-GQ	TA4312						
1CP482F-GQ							
1CP482GP-GQ	TA4313						
1CP482G-GQ							
1CP483GP-HQ	TA4314						
1CP483G-HQ							

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 6 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CP483FP-HQ	SIGNAL WIRES FOR THERMOCOUPLES TA 4315	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^{7}$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CP483F-HQ							
1CP483DP-HQ	TA 4316						
1CP483D-HQ							
1CP483BP-HQ	TA4318						
1CP483B-HQ							

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 7 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
ICP483CP-HQ	SIGNAL WIRES FOR THERMOCOUPLES TA4348	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
ICP483C-HQ							
ICP483AP-HQ	TA4319						
ICP483A-HQ							
ICP482CP-GQ	TA4320						
ICP482C-GQ							

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 8 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
ICP482DP-GQ	TA4321						
ICP482D-GQ							
ICP482-GQ	TA4312 TA4313 TA4320 TA4321						
ICP483-HQ	TA4314 TA4315 TA4316 TA4318 TA4348 TA4319						

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SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 9 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
LA 0223 (LT-938)	CONTAINMENT SUMP LEVEL	LEVEL SWITCH GEMS LS-800	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $<5 \times 10^7$ R	PAGE 81	BASIS #31	
LA 0224 (LT-939)	↓	↓	↓	↓	↓	↓	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 10 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
JN-106(UNIT1) JN-107(UNIT2)	ELECTRICAL CONNECTIONS LA 0223/ /1ACS24-P-AT	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(s) PSE&G DESIGN WITH BUCHANAN BLOCK(s) 2B112N	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE C4	NONE	
JN-108(UNIT1) JN-109(UNIT2)	LA 0224/ /1ACS25P-BT						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 11 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES FOR LEVEL SWITCH	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PEN.	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-43	LA 0223						
PENET. 1-41	LA 0224						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 12 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR INSTRUMENT	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271/350°F 43.2/42.8PSIG $<5 \times 10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS *1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1ACS24P-AT	LA-0223						
1ACS24-AT							
1ACS25P-BT	LA-0224						
1ACS25-BT							

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 13 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
TA6356-Z TA6357-Z TA6358-Z TA6359-Z TA6360-Z	CONTAINMENT HUMIDITY DETECTORS	FOXBORO 2711AG	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE B3	BASIS #37	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 14 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 64	NONE	
JN-340 (UNIT #1) JN-345 (UNIT #2)	TA-6356Z/ /1VNT123P-CQ						
JN-341 (UNIT #1) JN-346 (UNIT #2)	TA-6357Z/ /1VNT125P-CQ						
JN-342 (UNIT #1) JN-347 (UNIT #2)	TA-6358Z/ /1VNT127P-CQ						
JN-343 (UNIT #1) JN-348 (UNIT #2)	TA-6359Z/ /1VNT129P-CQ						
JN-344 (UNIT #1) JN-349 (UNIT #2)	TA-6360Z/ /1VNT131P-CQ						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 15 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR HUMIDITY DETECTORS	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PENET.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-35	TA-6356 Z						
	TA-6357 Z						
	TA-6358 Z						
	TA-6359 Z						
	TA-6360 Z						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 16 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR DETECTOR	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5 \times 10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1VNT123P-CQ	TA-6356Z						
1VNT123-CQ							
1VNT125P-CQ	TA-6357Z						
1VNT125-CQ							
1VNT127P-CQ	TA-6358Z						
1VNT127-CQ							

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 17 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR DETECTOR	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1VNT129P-CQ	TA-6359Z						
1VNT129-CQ							
1VNT131P-CQ	TA-6360Z						
1VNT131-CQ							

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 18 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	INCORE TEMPERATURE INDICATION	THERMOCOUPLE WESTINGHOUSE SPIN# ECRIUI (583F014)	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 82	BASIS #33	
TA 4112 (T1)							
TA 4328 (T2)							
TA 4329 (T3)							
TA 4330 (T4)							
TA 4331 (T5)							
TA 4332 (T6)							
TA 4333 (T7)							
TA 4334 (T8)							
TA 4335 (T9)							

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 19 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
TA 4336 (T10)	INCORE TEMPERATURE INDICATION	THERMOCOUPLE WESTINGHOUSE SPIN# ECRIUI (583 FOIA)	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 82	BASIS #33	
TA 4337 (T11)							
TA 4338 (T12)							
TA 4339 (T13)							
TA 4340 (T14)							
TA 4341 (T15)							
TA 4342 (T16)							
TA 4343 (T17)							
TA 4344 (T18)							

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 20 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
TA 4345 (T19) TA 4346 (T20) TA 4347 (T21) TA 4116 (T22) TA 4415 (T23) TA 4416 (T24) TA 4417 (T25) TA 4418 (T26) TA 4419 (T27)	INCORE TEMPERATURE INDICATION	THERMOCOUPLE WESTINGHOUSE SPIN# RCE1UI (5?3 FOR4)	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 82	BASIS #33	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 21 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
TA 4488 (T28) TA 4489 (T29) TA 4490 (T30) TA 4491 (T31) TA 4492 (T32) TA 4493 (T33) TA 4494 (T34) TA 4495 (T35) TA 4496 (T36)	INCORE TEMPERATURE INDICATION	THERMOCOUPLE WESTINGHOUSE SPIN # ECRIUI (533 FOM)	CONTAINMENT	LOCA / MSLB 271° / 350°F 43.2 / 42.8 PSIG < 5X10⁷R	PAGE 82	BASIS # 33	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 22 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
TA 4497 (T37) TA 4498 (T38) TA 4499 (T39) TA 4500 (T40) TA 4501 (T41) TA 4502 (T42) TA 4503 (T43) TA 4504 (T44) TA 4505 (T45)	INCORE TEMPERATURE INDICATION	THERMOCOUPLE WESTINGHOUSE SPIN* RCRIVI (583F014)	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 82	BASIS #33	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 23 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
TA 4506 (T46) TA 4507 (T47) TA 4508 (T48) TA 4509 (T49) TA 4510 (T50) TA 4511 (T51) TA 4536 (T52) TA 4537 (T53) TA 4538 (T54)	INCORE TEMPERATURE INDICATION	THERMOCOUPLE WESTINGHOUSE SPIN RECEIVE (583 FOIA)	CONTAINMENT	LOCA / MSLB 271° / 350°F 43.2 / 42.8 PSIG $< 5 \times 10^7$ R	PAGE 82	BASIS #33	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 24 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
TA 4539 (T55) TA 4540 (T56) TA 4541 (T57) TA 4542 (T58) TA 4543 (T59) TA 4544 (T60) TA 4545 (T61) TA 4546 (T62) TA 4547 (T63)	INCORE TEMPERATURE INDICATION	THERMOCOUPLE WESTINGHOUSE SPIN#RCRIUI (5B3F014)	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 82	BASIS #33	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 25 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
TA 4548 (TG4) TA 4549 (TG5) TA 4550 (T87) TA 4551 (T88) TA 4552 (T89) TA 4553 (T90)	INCORE TEMPERATURE INDICATION	THERMOCOUPLE WESTINGHOUSE SPIN# RCR1U1 (583F014)	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 82	BASIS #33	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 26 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR THERMOCOUPLES	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELECTRICAL PEN.	LOCA / MSLB 271°/350° F 43.2 / 42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET 1-39	TA 4112						
	TA 4329						
	TA 4330						
	TA 4331						
	TA 4335						
	TA 4336						
	TA 4338						
	TA 4339						
	TA 4343						
	TA 4344						
	TA 4345						
	TA 4346						
	TA 4116						
	TA 4416						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 27 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR THERMOCOUPLES	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT ELECTRICAL PEN.	LOCA / MSLB 271°/350° F 43.2 / 42.2 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET 1-39 (CONT'D)	TA 4418						
	TA 4419						
	TA 4488						
	TA 4492						
	TA 4494						
	TA 4496						
	TA 4497						
	TA 4500						
	TA 4503						
	TA 4504						
	TA 4510						
	TA 4511						
	TA 4537						
	TA 4538						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 28 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PENET 1-39 (CONT'D)	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR THERMOCOUPLES TA4541 TA4542 TA4543 TA4545 TA4547	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT ELECTRICAL PEN.	LOCA / MSLB 271°/350°F 43.2 / 42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 29 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR THERMOCOUPLES	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT ELECTRICAL PEN.	LOCA / MSLB 271°/350°F 43.2 / 42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-47	TA 4328						
	TA 4432						
	TA 4433						
	TA 4434						
	TA 4337						
	TA 4340						
	TA 4341						
	TA 4342						
	TA 4347						
	TA 4415						
	TA 4417						
	TA 4489						
	TA 4490						
	TA 4491						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 30 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR THERMOCOUPLES	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELECTRICAL PEN.	LOCA / MSLB 271°/350° F 43.2 / 42.8 PSIG < 5x10⁷ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET 1-47 (CONT'D)	TA4493						
	TA4495						
	TA4498						
	TA4499						
	TA4501						
	TA4502						
	TA4505						
	TA4506						
	TA4507						
	TA4508						
	TA4509						
	TA4536						
	TA4539						
	TA4540						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 31 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PENET 1-47 CONT'D	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR THERMOCOUPLES TA4544 TA4546 TA4548 TA4549	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELECTRICAL PEN.	LOCA / MSLB 271°/350°F 43.2 / 42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 32 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
REF. JCT. BOX #12	ELECTRICAL CONNECTIONS 1CT3-EQ 1CT34-EQ 1CT1-EQ 1CT36-EQ 1CT5-EQ 1CT40-EQ / 1CT74P-EQ 1CT63-EQ 1CT32-EQ 1CT61-EQ 1CT57-EQ 1CT26-EQ 1CT58-EQ 1CT27-EQ / 1CT75P-EQ	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5 \times 10^7$ R	PAGE 64	NONE	

Revision 2

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 33 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
REF. JCT. BOX #12 (CONTD.)	ELECTRICAL CONNECTIONS 1CT59-EQ 1CT28-EQ 1CT24-EQ 1CT54-EQ 1CT19-EQ 1CT53-EQ 1CT22-EQ / 1CT71P-EQ 1CT18-EQ 1CT51-EQ 1CT17-EQ 1CT20-EQ 1CT12-EQ 1CT50-EQ / 1CT72P-EQ	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷ R	PAGE 64	NONE	

Revision 2

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 34 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
REF. JCT. BOX #12 (CONTD.)	ELECTRICAL CONNECTIONS 1CT13-EQ 1CT44-EQ 1CT10-EQ 1CT9-EQ 1CT43-EQ 1CT37-EQ 1CT4-EQ 1CT73P-EQ	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R	PAGE 64	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 35 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
REF. JCT. BOX #11	ELECTRICAL CONNECTIONS 1CT2-HQ 1CT38-HQ 1CT39-HQ 1CT35-HQ 1CT46-HQ 1CT8-HQ / 1CT69P-HQ 1CT64-HQ 1CT31-HQ 1CT33-HQ 1CT62-HQ 1CT65-HQ 1CT29-HQ / 1CT70P-HQ	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$ R	PAGE 64	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 36 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
REF. JCT. BOX #11 (CONT'D)	ELECTRICAL CONNECTIONS 1CT16-HQ 1CT25-HQ 1CT30-HQ 1CT60-HQ 1CT56-HQ 1CT21-HQ 1CT23-HQ / 1CT66P-HQ 1CT55-HQ 1CT14-HQ 1CT11-HQ 1CT15-HQ 1CT49-HQ 1CT52-HQ / 1CT67P-HQ	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2 / 42.8 PSIG <5x10⁷R	PAGE 64	NONE	

Revision 2

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 37 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
REF. JCT. BOX. #11 (CONT'D.)	ELECTRICAL CONNECTIONS 1CT41-HQ 1CT47-HQ 1CT 6-HQ 1CT 7-HQ 1CT 42-HQ 1CT 45-HQ 1CT 48-HQ 1CT68P-HQ	JUNCTION BOX WITH INTEGAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 64	NONE	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 38 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CT3-EQ	TA 4329						
1CT34-EQ	TA 4494						
1CT1-EQ	TA 4112						
1CT36-EQ	TA 4496						
1CT5-EQ	TA 4331						
1CT40-EQ	TA 4500						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 39 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^{7}$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CT74P-EQ AND 1CT74-EQ	TA 4329						
	TA 4494						
	TA 4112						
	TA 4496						
	TA 4331						
	TA 4500						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 40 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5x10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CT63-EQ	TA 4547						
1CT32-EQ	TA 4492						
1CT61-EQ	TA 4545						
1CT57-EQ	TA 4541						
1CT26-EQ	TA 4418						
1CT58-EQ	TA 4542						
1CT27-EQ	TA 4419						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 41 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^{7}$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CT75P-EQ AND 1CT75-EQ	TA 4547						
	TA 4492						
	TA 4545						
	TA 4541						
	TA 4418						
	TA 4542						
	TA 4419						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 42 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5x10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
ICT 2-HQ	TA 4328						
ICT 38-HQ	TA 4498						
ICT 39-HQ	TA 4499						
ICT 35-HQ	TA 4495						
ICT 46-HQ	TA 4506						
ICT 8-HQ	TA 4334						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 43 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5x10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
ICT 69P-HQ AND ICT 69-NQ	TA 4328						
	TA 4498						
	TA 4499						
	TA 4495						
	TA 4506						
	TA 4334						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 44 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CT64-NQ	TA 4548						
1CT31-NQ	TA 4491						
1CT33-NQ	TA 4493						
1CT62-NQ	TA 4546						
1CT65-NQ	TA 4549						
1CT29-NQ	TA 4489						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM Containment Parameters SHEET 45 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	Signal Wires for Thermocouples	Cables from Generic Groupings	Containment & others	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^{7}$R (Containment only)	Pages 67 through 73	Basis #1	Cabling Qualified to Worst Case Environment
ICT70P-HQ and ICT70-HQ	TA 4548						
	TA 4491						
	TA 4493						
	TA 4546						
	TA 4549						
	TA 4489						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 46 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CT16-HQ	TA 4342						
1CT25-HQ	TA 4417						
1CT30-HQ	TA 4490						
1CT60-HQ	TA 4544						
1CT56-HQ	TA 4540						
1CT21-HQ	TA 4347						
1CT23-HQ	TA 4415						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 47 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS # 1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CT66P-HQ AND 1CT66-HQ	TA 4342						
	TA 4417						
	TA 4490						
	TA 4544						
	TA 4540						
	TA 4347						
	TA 4415						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 48 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^{7}$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CT55-HQ	TA 4539						
1CT14-HQ	TA 4340						
1CT11-HQ	TA 4337						
1CT15-HQ	TA 4341						
1CT49-HQ	TA 4509						
1CT52-HQ	TA 4536						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM Containment Parameters SHEET 43 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	Signal Wires for Thermocouples	Cables from Generic Groupings	Containment & Others	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (Containment Only)	Page 67 through 73	Basis #1	Cabling Qualified to Worst Case Environment
1CT67P-HQ AND 1CT67-HQ	TA 4539						
	TA 4340						
	TA 4337						
	TA 4341						
	TA 4509						
	TA 4536						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 50 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THEERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CT41-NQ	TA 4501						
1CT47-NQ	TA 4507						
1CT6-NQ	TA 4432						
1CT7-NQ	TA 4433						
1CT42-NQ	TA 4502						
1CT45-NQ	TA 4505						
1CT48-NQ	TA 4508						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 51 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CT68P-HQ AND 1CT68-HQ	SIGNAL WIRES FOR THERMOCOUPLES TA4501, TA4507, TA4432, TA4433, TA4502, TA4505, TA4508	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 52 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5X10^7R$ (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CT59-EQ	TA4543						
1CT28-EQ	TA4488						
1CT24-EQ	TA4416						
1CT54-EQ	TA4538						
1CT19-EQ	TA4345						
1CT53-EQ	TA4537						
1CT22-EQ	TA4116						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 53 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
ICT71P-EQ AND ICT71-EQ	SIGNAL WIRES FOR THERMOCOUPLES TA4543, TA4488, TA4416, TA4538, TA4345, TA4537, TA4116	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 54 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CT18-EQ	TA4344						
1CT51-EQ	TA4511						
1CT17-EQ	TA4343						
1CT20-EQ	TA4346						
1CT12-EQ	TA4338						
1CT50-EQ	TA4510						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 55 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CT72P-EQ AND 1CT72-EQ	SIGNAL WIRES FOR THERMCOUPLES TA4344 TA4511 TA4343 TA4346 TA4338 TA4510	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5X10^7R$ (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 56 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR THERMOCOUPLES	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CT13-EQ	TA4339						
1CT44-EQ	TA4054						
1CT10-EQ	TA4336						
1CT9-EQ	TA4335						
1CT43-EQ	TA4503						
1CT37-EQ	TA4497						
1CT4-EQ	TA4330						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 57 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CT73P-EQ AND 1CT73-EQ	SIGNAL WIRES FOR THERMOCOUPLES TA4339, TA4504, TA4336, TA4335, TA4503, TA4497, TA4330	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 58 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
RA 4314 (UNIT #1)	CONTAINMENT RADIATION DETECTOR HIGH RANGE	TRAPELO TA-G3A	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2 /42.8 PSIG $< 5 \times 10^7$ R	PAGE 84	BASIS #35	

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 59 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PENET. 1-35 (UNIT #1)	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR DETECTOR RA 4314	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PEN.	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 65	NONE	QUALIFIED TO WORST CASE ENVIRONMENT

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 60 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1RMS32P-CQ (UNIT #1) 1RMS32-CQ (UNIT #1)	SIGNAL WIRES FOR DETECTOR RA 4314	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5x10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 61 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
RA 4314 (UNIT #2)	CONTAINMENT RADIATION DETECTOR HIGH RANGE	VICTOREEN 877	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 85	BASIS #34	

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 62 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
2R21 (UNIT 2)	CONTAINMENT RADIATION MONITOR HIGH RANGE	VICTOREEN M862CD, 5, FU M865T M866I M868B	ELEC. PEN.	RECIRC. $<10^5$ R	PAGE 85A	BASIS #34	

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS

SHEET 63 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PENET. 2-63 (UNIT #2)	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR DETECTOR RA 4314	CONTAINMENT ELECTRICAL PENATRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PEN.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 64 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
(UNIT #2)	SIGNAL WIRES FOR DETECTOR	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA / MSLB 271°/350° F 43.2 / 42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
2R21M1P-BQ	RA4314	↓	↓	↓	↓	↓	↓
2R21M2P-BQ	↓	↓	↓	↓	↓	↓	↓
2R21M1-BQ	↓	↓	↓	↓	↓	↓	↓
2R21M2-BQ	↓	↓	↓	↓	↓	↓	↓
2RM7A-EQ	↓	↓	↓	↓	↓	↓	↓
2RM7B-EQ	↓	↓	↓	↓	↓	↓	↓

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 65 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PA 2344 (PT-948A)	CH. IV CONTAINMENT PRESSURE	PRESSURE TRANSMITTER BARTON 332/351	MECH. PEN. 78	HEBA LONG TERM 212°F 1PSIG $<5\times10^7$ R	PAGE 52 PAGE 54	BASIS #22	
PA 2345 (PT-948B)	CH. III						
PA 2346 (PT-948C)	CH. II						
PA 2568 (PT-948D)	CH. I						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM CONTAINMENT PARAMETERS SHEET 66 OF 66

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRE FOR INSTRUMENT	CABLE FROM GENERIC GROUPINGS	ELEC. PEN. & OTHERS	N/A	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SI128-DQ	PA 2344						
1SI129-CQ	PA 2345						
1SI130-BQ	PA 2346						
1SI131-AQ	PA 2568						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MISCELLANEOUS SHEET 1 OF 56

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
NOZZLE SUPPORT VENT FAN MOTOR	COOLING FOR REACTOR NOZZLE SUPPORTS	MOTOR WESTINGHOUSE MODEL: TBFC.	CONTAINMENT	MSLB 350°F 42.8 PSIG $<5\times10^7$ R	PAGE 88	BASIS #36	
REACTOR SHIELD VENT FAN MOTOR	REACTOR SHIELD	WESTINGHOUSE MODEL: TBAM	↓	↓	PAGE 88A	↓	
CONTROL ROD DRIVE FAN MOTOR	CONTROL ROD	WESTINGHOUSE 77C27257	↓	↓	PAGE 88B	↓	

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MISCELLANEOUS SHEET 2 OF 56

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR MOTIVE POWER FOR REACTOR NOZZLE SUPPORT VENT FANS	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT ELEC. PEN.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-43	#11						
PENET. 1-41	#12						
PENET. 1-37	#13 & 14						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MISCELLANEOUS

SHEET 3 OF 56

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER / CONTROL FOR REACTOR NOZZLE SUPPORT VENT FANS	GENERAL ELECTRIC 7700 LINE	VITAL VENT AREA	RECIRC <103R	PAGE 74	NONE	
1A VENTILATION 230V VITAL C.C.	#11						
1B VENTILATION 230V. VITAL C.C.	#12						
1C VENTILATION 230V. VITAL C.C.	#13 & #14						

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MISCELLANEOUS SHEET 4 OF 56

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER/CONTROL CABLES FOR	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5x10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A13YBP-A	#11 REACTOR NOZZLE SUPPORT VENT FAN						
1A13YB-A							
1A13YA2-AT							
1B13YBP-B	#12 REACTOR NOZZLE SUPPORT VENT FAN						
1B13YB-B							
1B13YA2-BT							

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MISCELLANEOUS SHEET 5 OF 56

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER/CONTROL CABLES FOR	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<6\times10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1C13YAP-C	#13 REACTOR NOZZLE SUPPORT VENT FAN						
1C13YA-C							
1C13YEP-C	#14 REACTOR NOZZLE SUPPORT VENT FAN						
1C13YE-C							
1C13YA2-CT	#13 & 14 REACTOR NOZZLE SUPPORT VENT FAN						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MISCELLANEOUS SHEET 6 OF 56

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER/CONTROL FOR REACTOR SHIELD VENT FANS	GENERAL ELECTRIC 7700 LINE	VITAL VENT AREA	RECIRC. $<10^3$R	PAGE 74	NONE	
1A VENTILATION 230V. VITAL C.C.	# 11	↓	↓	↓	↓	↓	
1B VENTILATION 230V VITAL C.C.	# 12						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MISCELLANEOUS SHEET 7 OF 56

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S)	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $\leq 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 64	NONE	
JT-547 (UNIT 1) JT-558 (UNIT 2)	1E5XPA-E/1E5XP-E						
JT-548 (UNIT 1) JT-559 (UNIT 2)	1E17XPA-E/1E17XP-E						
JT-549 (UNIT 1) JT-560 (UNIT 2)	1G5XPA-G/1G5XP-G						
JT-550 (UNIT 1) JT-561 (UNIT 2)	1G17XPA-G/1G17XP-G						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION --
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MISCELLANEOUS

SHEET 8 OF 56

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR REACTOR SHIELD VENT FANS	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PEN.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^{7}$R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-43	#11	↓	↓	↓	↓	↓	↓
PENET. 1-41	#12						

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MISCELLANEOUS SHEET 9 OF 56

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER/CONTROL CABLES FOR:	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^{7}$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLES QUALIFIED TO WORST CASE ENVIRONMENT
1A13YAP-A	#11 REACTOR SHIELD VENT FAN						
1A13YA-A							
1A13YA2-AT							
1B13YAP-B	#12 REACTOR SHIELD VENT FAN						
1B13YA-B							
1B13YA2-BT							

Revision 1

SALEM GENERATING STATION
UNITS 1 AND 2
EQUIPMENT QUALIFICATION -
ENVIRONMENTAL

MASTER LIST
ELECTRICAL/CONTROLS EQUIPMENT LOCATED IN AN
ADVERSE ENVIRONMENT AND SPECIFIED TO FUNCTION
UNDER POSTULATED ACCIDENT CONDITIONS

SYSTEM MISCELLANEOUS SHEET 10 OF 56

IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR CONTROL ROD DRIVE VENT FANS	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT E. ELEC. PEN.	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-50	#11 & 12						
PENET. 1-46	#13 & 14						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1E5XPA-E 1E5XP-E 1E5X-E	POWER CABLES FOR MOTIVE POWER FOR #11 CONTROL ROD DRIVE VENT FAN	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG. $<5\times10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1E17XPA-E 1E17XP-E 1E17X-E	#12 CONTROL ROD DRIVE VENT FAN						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1G5XPA-G 1G5XP-G 1G5X-G	POWER CABLES FOR MOTIVE POWER FOR #13 CONTROL ROD DRIVE VENT FAN	CABLES FOR GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG. $<5\times10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1G17XPA-G 1G17XP-G 1G17X-G	#14 CONTROL ROD DRIVE VENT FAN						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SR #1 (NE-31)	EXCORE NEUTRON DETECTORS	NEUTRON DETECTORS WESTINGHOUSE WL 23706	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG < 5x10 R	PAGE 87	BASIS #13	
IR #1 (NE-35)		WL 23707					
PR #1 (NE-41A & 41B)		WL 23708					
PR #4 (NE-44A & 44B)							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	EXCORE NEUTRON DETECTORS	NEUTRON DETECTORS WESTINGHOUSE	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 87	BASIS #13	
SE #2 (NE-32)		WL 23706					
IE #2 (NE-36)		WL 23707					
PE #2 (NE-42A & 42B)		WL 23708					
PE #3 (NE-43A & 43B)							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SR#1 PRE-AMP (UNIT#1 ONLY)	EXCORE NEUTRON DETECTOR PRE-AMP	PRE-AMPLIFIER WESTINGHOUSE 1045F14-G01	ELEC. PEN.	REGIEC. $< 10^5$R	PAGE 87A	BASIS #13	
SR#2 PRE-AMP (UNIT#1 ONLY)	↓	↓	↓	↓	↓	↓	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
SE#1 (UNIT#2 ONLY)	EXCORE NEUTRON DETECTOR PRE-AMP	PRE-AMPLIFIER WESTINGHOUSE 1045F14-G01	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 87A	BASIS #13	
SE#2 (UNIT#2 ONLY)							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS	JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK(S) PSE&G DESIGN WITH BUCHANAN BLOCK(S) 2B112N	ELEC. PEN.	REGIRC. $< 10^5$ R	PAGE GA	NONE	
JT-9 (UNIT #2)	2NIS4B-BQ / 2NIS14A-BQ						
	2NIS4C-BQ / 2NIS14B-BQ						
JT-10 (UNIT #2)	2NIS1B-AQ / 2NIS13A-AQ						
	2NIS1C-AQ / 2NIS13B-AQ						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PEN	LOCA/MSLB 271°/350° F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 65	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-19	SR #2 IR #2 PR #2						
PENET. 1-17	PR #3						
PENET. 1-15	SR #1 IR #1 PR #1						
PENET. 1-21	PR #4						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
(UNIT #1 ONLY) 1NIS1AP-AQ 1NIS1A-AQ 1NIS13A-AQ 1NIS13B-AQ 1NIS13D-AQ 1NIS13E-AQ	SIGNAL WIRES FOR DETECTOR SR #1 (UNIT #1 ONLY)	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
(UNIT #2 ONLY) 2NIS1D-AQ 2NIS1RP-AQ 2NIS1CP-AQ 2NIS1B-AQ 2NIS1C-AQ 2NIS13A-AQ 2NIS13B-AQ	SIGNAL WIRES FOR DETECTOR SR #1 (UNIT #2 ONLY)	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350° F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR DETECTOR	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
INIS2CP-AQ	IR #1	↓	↓	↓	↓	↓	↓
INIS2BP-AQ	↓	↓	↓	↓	↓	↓	↓
INIS2AP-AQ	↓	↓	↓	↓	↓	↓	↓
INIS2C-AQ	↓	↓	↓	↓	↓	↓	↓
INIS2B-AQ	↓	↓	↓	↓	↓	↓	↓
INIS2A-AQ	↓	↓	↓	↓	↓	↓	↓

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR DETECTOR	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5x10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
INIS3CP-AQ	PR #1	↓	↓	↓	↓	↓	↓
INIS3BP-AQ	↓	↓	↓	↓	↓	↓	↓
INIS3AP-AQ	↓	↓	↓	↓	↓	↓	↓
INIS3C-AQ	↓	↓	↓	↓	↓	↓	↓
INIS3B-AQ	↓	↓	↓	↓	↓	↓	↓
INIS3A-AQ	↓	↓	↓	↓	↓	↓	↓

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	SIGNAL WIRES FOR DETECTOR	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
INIS10CP-DQ	PR #4	↓	↓	↓	↓	↓	↓
INIS10BP-DQ	↓	↓	↓	↓	↓	↓	↓
INIS10AP-DQ	↓	↓	↓	↓	↓	↓	↓
INIS10C-DQ	↓	↓	↓	↓	↓	↓	↓
INIS10B-DQ	↓	↓	↓	↓	↓	↓	↓
INIS10A-DQ	↓	↓	↓	↓	↓	↓	↓

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
(UNIT #1 ONLY) 1NIS4AP-BQ 1NIS4A-BQ 1NIS14A-BQ 1NIS14B-BQ 1NIS14D-BQ 1NIS14E-BQ	SIGNAL WIRES FOR DETECTOR SR #2 (UNIT #1 ONLY)	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5x10^7R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
(UNIT #2 ONLY) 2NIS4D-BQ 2NIS4BP-BQ 2NIS4CP-BQ 2NIS4B-BQ 2NIS4C-BQ 2NIS14A-BQ 2NIS14B-BQ	SIGNAL WIRES FOR DETECTOR SR #2 (UNIT #2 ONLY)	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 42.2/42.8 PSIG $<5\times10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
INISSCP-BQ INISSBP-BQ INISSAP-BQ INISSC-BQ INISSB-BQ INISSA-BQ	SIGNAL WIRES FOR DETECTOR IR #2	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10^7R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
INIS6AP-BQ INIS6BP-BQ INIS6CP-BQ INIS6A-BQ INIS6B-BQ INIS6C-BQ	SIGNAL WIRES FOR DETECTOR PR #2	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
INIS8AP-CQ INIS8BP-CQ INIS8CP-CQ INIS8A-CQ INIS8B-CQ INIS8C-CQ	SIGNAL WIRES FOR DETECTOR PR #3	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
ROD POSITION INDICATING DEVICE	CONTROL ROD POSITION INDICATION	WESTINGHOUSE KD-8805-12	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$ R	PAGE 86	BASIS #38	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PENET. 1-35 PENET. 1-38 PENET. 1-53 PENET. 1-59	ELECTRICAL CONNECTIONS FOR ASSOCIATED CABLES FOR ROD POSITION INDICATORS	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT & ELEC. PEN.	LOCA/MSLB 271°/350°F 43.2/42.3 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 65	NONE	QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
EPI DISCONNECT RACK	ELECTRICAL CONNECTIONS 1CR94A-FQ / 1CR94P-FQ 1CR74A-FQ / 1CR74P-FQ 1CR117A-FQ / 1CR117P-FQ 1CR106A-FQ / 1CR106P-FQ 1CR90A-FQ / 1CR90P-FQ 1CR86A-FQ / 1CR86P-FQ 1CR124A-FQ / 1CR124P-FQ	INSTRUMENT RACK PSE&G DESIGN WITH PLUG-IN CONNECTORS AMPHENOL 48-06R-14-7S 48-00R-14-7P	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 62 AND PAGE 100	NONE AND BASIS #38	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
RPI DISCONNECT RACK (CONT'D)	ELECTRICAL CONNECTIONS ICR110A-FQ/ICR110P-FQ ICR121A-FQ/ICR121P-FQ ICR82A-FQ/ICR82P-FQ ICR102A-FQ/ICR102P-FQ ICR78A-FQ/ICR78P-FQ ICR98A-FQ/ICR98P-FQ ICR83A-FQ/ICR83P-FQ	INSTRUMENT RACK PSE&G DESIGN WITH PLUG-IN CONNECTORS AMPHENOL 48-06R-14-7S 98-00R-14-7P	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE G2 AND PAGE 100	NONE AND BASIS # 38	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
RPI DISCONNECT RACK (CONT'D)	ELECTRICAL CONNECTIONS 1CR103A-FQ/1CR103P-FQ 1CR79A-FQ/1CR79P-FQ 1CR99A-FQ/1CR99P-FQ 1CR95A-FQ/1CR95P-FQ 1CR75A-FQ/1CR75P-FQ 1CR107A-FQ/1CR107P-FQ 1CR118A-FQ/1CR118P-FQ	INSTRUMENT RACK PSE&G DESIGN WITH PLUG-IN CONNECTORS AMPHENOL 48-06R-14-7S 48-00R-14-7P	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R	PAGE 62 AND PAGE 100	NONE AND BASIS # 38	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
RPI DISCONNECT RACK (CONT'D)	ELECTRICAL CONNECTIONS ICR91A-FQ/ICR91P-FQ ICR87A-FQ/ICR87P-FQ ICR114A-FQ/ICR114P-FQ ICR111A-FQ/ICR111P-FQ ICR122A-FQ/ICR122P-FQ ICR84A-FQ/ICR84P-FQ ICR104A-FQ/ICR104P-FQ	INSTRUMENT RACK PSE&G DESIGN WITH PLUG-IN CONNECTORS AMPHENOL 48-06R-14-7S 48-00R-14-7P	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$R	PAGE 62 AND PAGE 100	NONE AND BASIS # 38	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
RPI DISCONNECT RACK (CONT'D)	ELECTRICAL CONNECTIONS 1CR80A-FQ/1CR80P-FQ 1CR100A-FQ/1CR100P-FQ 1CR7GA-FQ/1CR7GP-FQ 1CR96A-FQ/1CR96P-FQ 1CR10BA-FQ/1CR10BP-FQ 1CR119A-FQ/1CR119P-FQ 1CR92A-FQ/1CR92P-FQ	INSTRUMENT RACK PSE&G DESIGN WITH PLUG-IN CONNECTORS AMPHENOL 48-06R-14-7S 48-00R-14-7P	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R	PAGE 62 AND PAGE 100	NONE AND BASIS #38	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
RPI DISCONNECT RACK (CONT'D)	ELECTRICAL CONNECTIONS	INSTRUMENT RACK PSE&G DESIGN WITH PLUG-IN CONNECTORS	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5X10^7R$	PAGE G2	NONE	
ICR88A-FQ/ICR88P-FQ					AND	AND	
ICR125A-FQ/ICR125P-FQ		AMPHENOL 48-06R-14-7S 48-00R-14-7P			PAGE 100	BASIS #38	
ICR112A-FQ/ICR112P-FQ							
ICR123A-FQ/ICR123P-FQ							
ICR115A-FQ/ICR115P-FQ							
ICR73A-FQ/ICR73P-FQ							
ICR93A-FQ/ICR93P-FQ							
ICR116A-FQ/ICR116P-FQ							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
RPI DISCONNECT RACK (CONT'D)	ELECTRICAL CONNECTIONS	INSTRUMENT RACK PSE&G WITH PLUG-IN CONNECTORS	CONTAINMENT	LOCA / MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R	PAGE 62	NONE	
	ICR105A-FQ/ICR105P-FQ	AMPHENOL			AND	AND	
	ICR89A-FQ/ICR89P-FQ	48-06R-14-7S 48-00R-14-7P			PAGE 100	BASIS #38	
	ICR85A-FQ/ICR85P-FQ						
	ICR113A-FQ/ICR113P-FQ						
	ICR109A-FQ/ICR109P-FQ						
	ICR120A-FQ/ICR120P-FQ						
	ICR81A-FQ/ICR81P-FQ						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
RPI DISCONNECT RACK (CONT'D) ↓	ELECTRICAL CONNECTIONS ICR101A-FQ/ICR101P-FQ ICR77A-FQ/ICR77P-FQ ICR97A-FQ/ICR97P-FQ	INSTRUMENT RACK PSE&G DESIGN WITH PLUG-IN CONNECTORS AMPHENOL 48-06R-14-7S 48-00R-14-7P	CONTAINMENT ↓	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$ R ↓	PAGE 62 PAGE 100 ↓	NONE BASIS #38 ↓	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CR94A-FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CR94P-FQ							
1CR94-FQ							
1CR74A-FQ							
1CR74P-FQ							
1CR74-FQ							
1CR117A-FQ							
1CR117P-FQ							
1CR117-FQ							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CR106A-FQ 1CR106P-FQ 1CR106-FQ 1CR90A-FQ 1CR90P-FQ 1CR90-FQ 1CR86A-FQ 1CR86P-FQ 1CR86-FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FOR GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10^{7}R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CR124A-FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CR124P-FQ							
1CR124-FQ							
1CR110A-FQ							
1CR110P-FQ							
1CR110-FQ							
1CR121A-FQ							
1CR121P-FQ							
1CR121-FQ							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CR82A-FQ 1CR82P-FQ 1CR82-FQ 1CR102A-FQ 1CR102P-FQ 1CR102-FQ 1CR78A-FQ 1CR78P-FQ 1CR78-FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8PSIG $<5X10^7R$ (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CR98A-FQ 1CR98P-FQ 1CR98-FQ 1CR83A-FQ 1CR83P-FQ 1CR83-FQ 1CR103A-FQ 1CR103P-FQ 1CR103-FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG. $<5\times10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
ICR79A-FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
ICR79P-FQ							
ICR79-FQ							
ICR99A-FQ							
ICR99P-FQ							
ICR99-FQ							
ICR95A-FQ							
ICR95P-FQ							
ICR95-FQ							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CR75A - FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5X10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CR75P- FQ							
1CR75 - FQ							
1CR107A-FQ							
1CR107P-FQ							
1CR107 - FQ							
1CR118A-FQ							
1CR118P-FQ							
1CR118 - FQ							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CR91A-FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8PSIG <5x10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CR91P-FQ	↓	↓	↓	↓	↓	↓	↓
1CR91-FQ	↓	↓	↓	↓	↓	↓	↓
1CR87A-FQ	↓	↓	↓	↓	↓	↓	↓
1CR87P-FQ	↓	↓	↓	↓	↓	↓	↓
1CR87-FQ	↓	↓	↓	↓	↓	↓	↓
1CR114A-FQ	↓	↓	↓	↓	↓	↓	↓
1CR114P-FQ	↓	↓	↓	↓	↓	↓	↓
1CR114-FQ	↓	↓	↓	↓	↓	↓	↓

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CR111A-FQ 1CR111P-FQ 1CR111-FQ 1CR122A-FQ 1CR122P-FQ 1CR122-FQ 1CR84A-FQ 1CR84P-FQ 1CR84-FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CR104A-FQ 1CR104P-FQ 1CR104-FQ 1CR80A-FQ 1CR80P-FQ 1CR80-FQ 1CR100A-FQ 1CR100P-FQ 1CR100-FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5X10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CR76A-FQ	SIGNAL WIRES FOR ROD POSITION IDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CR76P-FQ							
1CR76-FQ							
1CR96A-FQ							
1CR96P-FQ							
1CR96-FQ							
1CR108A-FQ							
1CR108P-FQ							
1CR108-FQ							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
ICR119A-FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE
ICR119P-FQ							
ICR119-FQ							
ICR92A-FQ							
ICR92P-FQ							
ICR92-FQ							
ICR88A-FQ							
ICR88P-FQ							
ICR88-FQ							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS # 1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CR125A-FQ							
1CR125P-FQ							
1CR125-FQ							
1CR112A-FQ							
1CR112P-FQ							
1CR112-FQ							
1CR123A-FQ							
1CR123P-FQ							
1CR123-FQ							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CR115A-FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CR115P-FQ	↓	↓	↓	↓	↓	↓	↓
1CR115-FQ	↓	↓	↓	↓	↓	↓	↓
1CR73A-FQ	↓	↓	↓	↓	↓	↓	↓
1CR73P-FQ	↓	↓	↓	↓	↓	↓	↓
1CR73-FQ	↓	↓	↓	↓	↓	↓	↓
1CR93A-FQ	↓	↓	↓	↓	↓	↓	↓
1CR93P-FQ	↓	↓	↓	↓	↓	↓	↓
1CR93-FQ	↓	↓	↓	↓	↓	↓	↓

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
ICR116A-FQ	↓	↓	↓	↓	↓	↓	↓
ICR116P-FQ							
ICR116-FQ							
ICR105A-FQ							
ICR105P-FQ							
ICR105-FQ							
ICR89A-FQ							
ICR89P-FQ							
ICR89-FQ							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
1CR85A-FQ	SIGNAL WIRES FOR EOD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8PSIG $< 5 \times 10^7$R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1CR85P-FQ							
1CR85-FQ							
1CR113A-FQ							
1CR113P-FQ							
1CR113-FQ							
1CR109A-FQ							
1CR109P-FQ							
1CR109-FQ							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
ICR120A-FQ ICR120P-FQ ICR120-FQ ICR81A-FQ ICR81P-FQ ICR81-FQ ICR101A-FQ ICR101P-FQ ICR101-FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
ICR77A-FQ	SIGNAL WIRES FOR ROD POSITION INDICATORS	CABLE FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG < 5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
ICR77P-FQ	↓	↓	↓	↓	↓	↓	↓
ICR77-FQ	↓	↓	↓	↓	↓	↓	↓
ICR97A-FQ	↓	↓	↓	↓	↓	↓	↓
ICR97P-FQ	↓	↓	↓	↓	↓	↓	↓
ICR97-FQ	↓	↓	↓	↓	↓	↓	↓

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
11SJ54	ACCUMULATOR ISOLATION VALVE TO 11 COLD LEG	MOTOR OPERATED VALVE LIMITORQUE SMB-0	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷ R	PAGE 63	BASIS #1	
12SJ54	ACCUMULATOR ISOLATION VALVE TO 12 COLD LEG						
13SJ54	ACCUMULATOR ISOLATION VALVE TO 13 COLD LEG						
14SJ54	ACCUMULATOR ISOLATION VALVE TO 14 COLD LEG						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION FOR VALVES 11 SJ 54 12 SJ 54 13 SJ 54 14 SJ 54	LIMIT SWITCH LIMITORQUE LIMIT SWITCH INTERNAL TO MOTOR	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG < 5 X 10⁷R	PAGE 63	BASIS #1	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES FOR VALVES	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT ELEC. PEN.	LOCA/MSLB 270°/350° F 43.2/42.8 PSIG <5X10⁷ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-43	11 SJ S4						
PENET. 1-41	12 SJ S4 14 SJ S4						
PENET. 1-37	13 SJ S4						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER/CONTROL FOR ACCUMULATOR ISOLATION VALVES	GENERAL ELECTRIC 7700 LINE	ELEC. PEN.-78	RECIRC. <10^5 R	PAGE 74	BASIS 7	
1A EAST MOTOR CONTROL CENTER	11 5J 54	↓	↓	↓	↓	↓	
1B EAST MOTOR CONTROL CENTER	12 5J 54 14 5J 54						
1C EAST MOTOR CONTROL CENTER	13 5J 54						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	POWER CABLES FOR VALVES	CABLE FOR GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YAEP-A	11SJ54						
1A3YAE-A							
1B3YAEP-B	12SJ54						
1B3YAE-B							
1C3YAEP-C	13SJ54						
1C3YAE-C							
1B3YAGP-B	14SJ54						
1B3YAG-B							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION WIRES FOR LIMIT SWITCH FOR VALVE	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 79	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1A3YAE2P-AT	11SJ54						
1A3YAE2-AT							
1B3YAE2P-BT	12SJ54						
1B3YAE2-BT							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	CONTROL/POSITION INDICATION WIRES FOR LIMIT SWITCH FOR VALVE	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350° F 43.2/42.8 PSIG < 5X10⁷R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS # 1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1C3YAE2P-CT	13SJ54						
1C3YAE2-CT							
1B3YAG2P-BT	14SJ54						
1B3YAG2-BT							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
LA0241 (LT-934A)	ACCUMULATOR LEVEL #11	DIFFERENTIAL PRESSURE TRANSMITTER BARTON MODEL 384	CONTAINMENT	LOCA/MSLB 271°/350° F 43.2/42.8 PSIG $<5\times10^7$ R	PAGE 14A	BASIS #24	
LA0242 (LT-935A)	#11	↓	↓	↓	↓	↓	
LA0237 (LT-934B)	#12	↓	↓	↓	↓	↓	
LA0238 (LT-935B)	#12	↓	↓	↓	↓	↓	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
LA0233 (LT-934C)	ACCUMULATOR LEVEL #13	DIFFERENTIAL PRESSURE TRANSMITTER BARTON MODEL 384	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG <5x10⁷ R	PAGE 14A	BASIS #24	
LA0234 (LT-935C)	#13	↓	↓	↓	↓	↓	
LA0228 (LT-934D)	#14	↓	↓	↓	↓	↓	
LA0229 (LT-935D)	#14	↓	↓	↓	↓	↓	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PA 0243 (PT-936A) PA 0244 (PT-937A) PA 0239 (PT-936B) PA 0240 (PT-937B)	ACCUMULATOR PRESSURE #11 #12	PRESSURE TRANSMITTER FISCHER-PORTER 50EP1031BCXA-NS	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 14B	BASIS #24	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	ACCUMULATOR PRESSURE	PRESSURE TRANSMITTER FISCHER-PORTER 50EP1031BCKA-NS	CONTAINMENT	LOCA/MSLB 271°/350°F 49.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 14B	BASIS #24	
PA 0235 (PT-936C)	#13						
PA 0236 (PT-937C)							
PA 0230 (PT-936D)	#14						
PA 0231 (PT-937D)							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 233	ENCLOSURE FOR LA 0241 LA 0242 PA 0243 PA 0244 AND ELECTRICAL CONNECTIONS LA 0241 PA 0243 / 1SI88P-AQ LA 0242 PA 0244 / 1SI89P-BQ	2-BAY INSTRUMENT PANEL PSE&G DESIGN TERMINAL BLOCK(S) BUCHANAN 2B112N	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE 62 PAGE 64	NONE	

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 234	ENCLOSURE FOR LA0237 LA0238 PA0239 PA0240	2-BAY INSTRUMENT PANEL PSE&G DESIGN	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$R	PAGE C2	NONE	
	AND						
	ELECTRICAL CONNECTIONS	TERMINAL BLOCK(S) BUCHANAN 2B112N			PAGE C4		
	LA0237 PA0239 / 1SI90P-BQ						
	LA0238 PA0240 / 1SI91P-AQ						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 235	ENCLOSURE FOR LA 0233 LA 0234 PA 0235 PA 0236	2-BAY INSTRUMENT PANEL PSE&G DESIGN	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE G2	NONE	
	AND						
	ELECTRICAL CONNECTIONS	TERMINAL BLOCK(S) BUCHANAN 2B112N			PAGE G4		
	LA 0233 PA 0235 / 1SI92P-CQ						
	LA 0234 PA 0236 / 1SI93P-DQ						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PANEL 236	ENCLOSURE FOR LA0228 LA0229 PA0230 PA0231	2-BAY INSTRUMENT PANEL PSE&G DESIGN	CONTAINMENT	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R	PAGE C2	NONE	
	AND						
	ELECTRICAL CONNECTIONS	TERMINAL BLOCK(S) BUCHANAN 2B112N			PAGE C4		
	LA0228 / 1SI95P-DQ						
	PA0230 / 1SI94P-DQ						
	LA0229 / PA0231 / 1SI96P-CQ						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
PENET. 1-65	ELECTRICAL CONNECTION FOR ASSOCIATED CABLES FOR ACCUMULATOR LEVEL & PRESSURE TRANSMITTERS LA0241, 0238 PA0243, 0240	CONTAINMENT ELECTRICAL PENETRATION CONAX CANISTER TYPE	CONTAINMENT ELECT. PEN	LOCA/MSLB 271°/350° F 43.2/42.8 PSIG $<5 \times 10^7$ R (CONTAINMENT ONLY)	PAGE 66	NONE	QUALIFIED TO WORST CASE ENVIRONMENT
PENET. 1-63	LA0242, 0237 PA0244, 0239						
PENET. 1-59	LA0233, 0229 PA0235, 0231						
PENET. 1-7	LA0234, 0228 PA0236, 0230						

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR ACCUMULATOR LEVEL & PRESSURE TRANSMITTERS	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350° F 43.2/42.8 PSIG < 5x10⁷ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SI88P-AQ	LA0241 PA0243						
1SI88-AQ							
1SI89P-BQ	LA0242 PA0244						
1SI89-BQ							
1SI90P-BQ	LA0237 PA0239						
1SI90-BQ							

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR ACCUMULATOR LEVEL & PRESSURE TRANSMITTERS	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $< 5 \times 10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS #1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SI91P-AQ	LA0238 PA0240	↓	↓	↓	↓	↓	↓
1SI91-AQ	↓	↓	↓	↓	↓	↓	↓
1SI92P-CQ	LA0233 PA0235	↓	↓	↓	↓	↓	↓
1SI92-CQ	↓	↓	↓	↓	↓	↓	↓
1SI93P-DQ	LA0234 PA0236	↓	↓	↓	↓	↓	↓
1SI93-DQ	↓	↓	↓	↓	↓	↓	↓

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IDENTIFICATION	SERVICE	TYPE, MANUFACTURER MODEL	LOCATION	ENVIRONMENT	QUALIFICATION	OUTSTANDING ITEMS	REMARKS
	SIGNAL WIRES FOR ACCUMULATOR LEVEL & PRESSURE TRANSMITTERS	CABLES FROM GENERIC GROUPINGS	CONTAINMENT & OTHERS	LOCA/MSLB 271°/350°F 43.2/42.8 PSIG $<5\times10^7$ R (CONTAINMENT ONLY)	PAGES 67 THROUGH 73	BASIS # 1	CABLING QUALIFIED TO WORST CASE ENVIRONMENT
1SI95P-DQ	LA0228						
1SI95-DQ							
1SI96P-CQ	LA0229 PA0231						
1SI96-CQ							
1SI94P-DQ	PA0230						
1SI94-DQ							

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