

Salem Generating Station Unit 2

Inservice Inspection Program
Long Term Plan

Third Interval

Revision 0

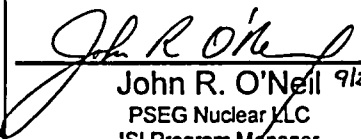
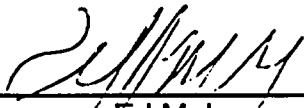
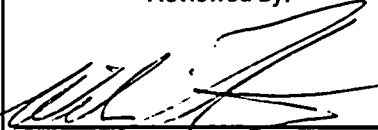
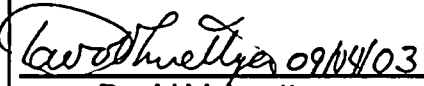
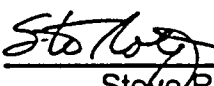
NOVEMBER 2003

SALEM UNIT 2 NUCLEAR GENERATING STATION

INSERVICE INSPECTION PROGRAM THIRD 10-YEAR INTERVAL LONG TERM PLAN

PSEG NUCLEAR LLC

November 2003
REVISION 0
CHANGE 0

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NRC	(1 COPY (initial issue only), Transmitted by Licensing)
DMG	(1 COPY- for DCRMS Entry)
ANII	(1 COPY)
ISI	(2 COPIES)

Salem Unit 2 ISI PROGRAM – LTP
3rd INTERVAL

REV. 0
CHG. 0

THIRD 10-YEAR INSERVICE INSPECTION PROGRAM PLAN

FOR

SALEM NUCLEAR GENERATING STATION

UNIT #2

LOCATION:

POST OFFICE BOX 236
HANCOCKS BRIDGE
NEW JERSEY 08038

OWNERS:

PSEG NUCLEAR LLC
POST OFFICE BOX 236
HANCOCKS BRIDGE
NEW JERSEY 08038

REACTOR SUPPLIER:

WESTINGHOUSE ELECTRIC COMPANY
PITTSBURGH, PENNSYLVANIA

ARCHITECT/ENGINEER:

PUBLIC SERVICE ELECTRIC & GAS COMPANY
NEWARK, NEW JERSEY

WESTINGHOUSE ELECTRIC COMPANY
PITTSBURGH, PENNSYLVANIA

NRC DOCKET NUMBER:

50-311

FACILITY OPERATING LICENSE:

DPR-75

CAPACITY:

3411 Mwt

CONSTRUCTION PERMIT DATE:

September 25, 1968

COMMERCIAL OPERATION DATE:

October 13, 1981

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REVISION HISTORY RECORD

This section is used for historical tracking and control of revisions to the Salem Unit 2 Generating Station Unit 1 Inservice Inspection Program Long Term Plan for the Third Ten-Year Interval.

REV. NO.	CHG NO.	AFFECTED PAGES/TABLES/ APPENDICES	DATE	DESCRIPTION
0	0	ENTIRE ISI LONG TERM PLAN PROGRAM	9/8/03	INITIAL ISI LONG TERM PLAN PROGRAM THIRD INTERVAL ISSUED

Note: Changes made to the ISI Program Management Software are incorporated within the database fields and the bases of the change documented within the appropriate text field.

ABSTRACT

This document establishes the Inservice Inspection Program plan and schedule for the Third Ten-year Interval for Salem Generating Station Unit 2. This program plan identifies Class 1,2, and 3 items that are subject to inspection and test as set forth by American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Section XI 1998 Edition up through and including 2000 Addenda. The third inspection interval ISI Program Plan was additionally prepared within the limitations and modifications required by Code of Federal Regulations in 10CFR50.55a, and other regulatory commitments.

Program drawings and tables identify each of the inspection areas and items selected for examination as required by ASME XI, by Code classification, Examination Category, examination method, and Inspection Period. Request for Relief as permitted by 10CFR.50.55a(g)(5)(iii), (iv), (6)(i), are included herein.

Augmented examinations were included in the program when regulatory or self-imposed commitments or industry recommendation were identified.

ACRONYMS AND ABBREVIATIONS

Listed below are corresponding descriptions for any acronyms or abbreviations that may be utilized within this document:

A	Anchor
A-E	Augmented Exam
ANII	Authorized Nuclear Inservice Inspector
ANS	American Nuclear Society
ANSI	American National Standards Institute
ASME	American Society of Mechanical Engineers
ASNT	American Society for Nondestructive Testing
BACM	Boric Acid Corrosion Management Program
BC	Branch Connection
BF	Steam Generator Feed
BIT	Boron Injection Tank
BR	Boric Acid Recovery
B&PV	Boiler and Pressure Vessel (Code)
CA	Control Air
CCW	Counter Clockwise
CDF	Core Damage Frequency
CFR	Code of Federal Regulations
CHR PMP	Charging Pump
CS	Containment Spray System
CV	Chemical and Volume Control System
CVCT	Chemical Volume Control Tank
CW	Clockwise
DR	Demineralized Water- Restricted
DV/ VT-D	Detailed Visual
ECSCC	External Chloride Stress Corrosion Cracking
ELHEX	Excess Letdown Heat Exchanger
ET	Eddy Current Testing
Exam	Examination
FB	Flange Bolting
FLG	Flange
FP	Fire Protection
FSAR	Final Safety Analysis Report
FW	Feedwater
G	Guide
GB	Steam Generator Blowdown
GL	Generic Letter (NRC)
GV/ VT-G	General Visual

ACRONYMS AND ABBREVIATIONS cont'd

H	Hanger
HS	Hydraulic Suppressor (Snubber)
HT	Head Tank
IA/ WA	Welded Attachment (Formerly Integrated Attachment)
IEB	Inspection and Enforcement Bulletin (NRC)
IGSCC	Intergranular Stress Corrosion Cracking
IN/ IEN	Information Notice / Inspection and Enforcement Notice (NRC)
IPE	Individual Plant Examination
IPEEE	Individual Plant Examination External Events
ISI	Inservice Inspection
IVVI	In-Vessel Visual Inspection
LERF	Large Early Release Frequency
LHEX	Letdown Heat Exchanger
LD	Longitudinal Seam Weld Extending Downstream
LDI	Longitudinal Seam Weld Extending Downstream on the Inside Radius of an Elbow (Intrados)
LDO	Longitudinal Seam Weld Extending Downstream on the Outside Radius of an Elbow (Extrados)
LGS	Lugs
Lo	Zero Reference Location
LTP	Long Term Plan
LU	Longitudinal Seam Weld Extending Upstream
LUI	Longitudinal Seam Weld Extending Upstream on the Inside Radius of an Elbow (Intrados)
LUO	Longitudinal Seam Weld Extending Upstream on the Outside Radius of an Elbow (Extrados)
MIC	Microbiologically Induced Corrosion
M-UT	Mechanized Ultrasonic Examination
MS	Main Steam System
MT	Magnetic Particle Testing
N/A	Not Applicable
NBU	PSE&G Nuclear Business Unit / PSEG NUCLEAR LLC
NDE/NDT	Nondestructive Examination/Testing
NPS	Nominal Pipe Size
NQAPM	Nuclear Quality Assurance Program
NRC	Nuclear Regulatory Commission
PIS	Pump Internal Surface
PMP	Pump
PR	Pressurizer Relief System
PRN	Pressurizer Relief Nozzle

ACRONYMS AND ABBREVIATIONS cont'd

PS	Pressurizer Spray System
PSAR	Preliminary Safety Analysis Report
PSEG	PSEG Nuclear LLC / PSE&G
PSI	Preservice Inspection
PSN	Pressurizer Spray Nozzle
PT	Liquid Penetrant Testing
PWSCC	Primary Water Stress Corrosion Cracking
PZR	Pressurizer
QA	Quality Assurance
R	Rigid Support (Restraint)
RC	Reactor Coolant System
RCF	Reactor Coolant Filter
RCN	Reactor Coolant Nozzle
RCP	Reactor Coolant Pump
REV	Revision
RG	Regulatory Guide (NRC)
RH	Residual Heat Removal System
RHE	Regenerative Heat Exchanger
RHRHEX	Residual Heat Removal Heat Exchanger
RIS	Regulatory Issue Summary (NRC) (Replaced NRC IN and GL)
RI-ISI	Risk-Informed Inservice Inspection
RR	Relief Request
RPV	Reactor Pressure Vessel
RPVCH	Reactor Pressure Vessel Closure Head
Rx	Reactor Building
S	Sway Suppressor (Support)
SA	Station Air
Scan Plan	Mechanized Examination Plan
SF	Spent Fuel System
SG/ STG	Steam Generator
SJ	Safety Injection System
SRP	Standard Review Plan (NRC)
STG / SG	Steam Generator
SW	Service Water
TASCS	Thermal Stratification, Cycling, and Striping
TGSCC	Transgranular Stress Corrosion Cracking
TP	Technical Position
TS	Technical Specification
UFSAR	Updated Final Safety Analysis Report
UT	Ultrasonic Testing

ACRONYMS AND ABBREVIATIONS cont'd

UT-T	Ultrasonic Thickness Testing
V	Variable Spring Support
VB	Valve Bolting
VII	Vessel Interior Item
VIS	Valve Internal Surface
VT	Visual Examination
VT-D/ DV	Detailed Visual
VT-G/ GV	General Visual
WA/ IA	Welded Attachment (Formerly Integrated Attachment)
IDDEAL	Name of the computer application program used for scheduling and tracking of examinations.
WL	Waste Liquid
XI	ASME Boiler and Pressure Vessel Code Section XI

1.0 INTRODUCTION

1.1 General

This document establishes the Inservice Inspection (ISI) Program plan and schedule for Salem Generating Station Unit 2 Third Ten-Year interval. The criteria used to develop this program are established within the following paragraphs.

This ISI Program Plan has been prepared to fulfill Salem Nuclear Generating Station Unit 2 third ten-year interval inservice inspection (ISI) requirements. This ISI Program Plan has been written to meet the requirements specified by the Code of Federal Regulations, 10CFR50.55a.

The scope of the ISI Program Plan meets the requirements outlined in Section XI of the ASME Boiler and Pressure Vessel Code, "Rules for Inservice Inspection of Nuclear Power Plant Components", as required by 10CFR50.55a(g). This plan also contains the relief requests for those components where compliance with code requirements was found to be impossible or impractical, during the Inspection Interval.

This Plan also includes augmented inservice inspection requirements to comply with commitments made to regulatory authorities and PSEG Nuclear commitments.

The examinations and tests performed to satisfy this program's requirements are considered safety related activities, and are therefore conducted in accordance with PSEG Nuclear's Operational Quality Assurance Program requirements.

The following are specifically excluded from the scope of this program:

- Repair/Replacement Activities
- 10CFR50, Appendix J Leakage Testing
- Snubber Examination and Testing
- Steam Generator Tube Inspection
- Pump and Valve Testing
- ASME XI IWE/IWL Exams which are conducted in accordance with the Containment Inspection ISI Program Long Term Plan

1.0 INTRODUCTION

1.2 Responsibilities

PSEG Nuclear LLC (PSEG Nuclear), as Owner, has overall responsibility for the conduct of the Inservice Inspection Program to assure compliance with the ASME Section XI Code, including IWA-1400, entitled "Owners Responsibilities".

Administrative procedures have been established to govern the conduct and implementation of inservice inspection activities. The PSEG Nuclear ISI Group is responsible for the ISI Program Long Term Plan's preparation, revision, implementation, scheduling, planning, and record retention. The ISI Group is additionally responsible for ensuring nondestructive examination (NDE) procedures are prepared, and approved for field use. These implementing procedures are available on site. Implementing procedures contain the acceptance standards required by this program and ASME Section XI for Nuclear Class 1, 2, and 3 components. The weld reference system is also described within Section 15.0 of this ISI Program Plan.

Qualification and certification of personnel [including non-destructive examination (NDE) personnel] is conducted in accordance with site controlled programs and procedures. Qualification and certification of nondestructive examination personnel is the responsibility of the PSEG Nuclear Level III NDE Administrator and Training Group.

Repair/ replacement activities to systems, components and their supports are not within the scope of this ISI Program Plan. They are performed in accordance PSEG Nuclear Repair Program Manual and National Board Certificate of Authorization number NR # 36 that has been issued to address repairs, replacements and modifications. The PSEG Nuclear Repair Program Manual incorporates the requirements of ASME Section XI and refers to the design specification and Construction Code of the component or system, as listed in the Salem's UFSAR and detailed specifications that are available at site.

Inservice Inspection Boundary Diagrams forming the basis of the program scope have been prepared to accommodate modifications to the plant during the first and second inspection intervals as a result of the Design Change (DCP) process requirements.

1.0 INTRODUCTION

From January 2002 through December 2002, a risk-informed inservice inspection (RI-ISI) program was generated for Class 1 and 2 piping (i.e., ASME Section XI Examination Categories B-F, B-J, C-F-1, and C-F-2) at the Salem Nuclear Generating Station. This RI-ISI application was performed in accordance with the Electric Power Research Institute (EPRI) Topical Report No. TR-112657, Rev. B-A, "Revised Risk-Informed Inservice Inspection Evaluation Procedure." Utilizing the results of the risk-informed process, a plant-specific request for alternative inspections was generated in accordance with regulatory requirements, and submitted to the NRC. The Salem Nuclear Generating Station Unit 2 Third Interval ISI Long Term Plan has been revised accordingly to incorporate the risk-informed examination criteria for Examination Category B-F, B-J, C-F-1, and C-F-2 circumferential piping welds. Note that in accordance with ASME Section XI, 1998 Edition through 2000 Addenda, longitudinal Class 1 and 2 piping welds no longer require examination beyond the length of the welds that are normally examined during inspection of the intersecting circumferential welds. As such, the RI-ISI application concentrates on circumferential Class 1 and 2 piping welds. For details on the RI-ISI application, see Section 17.0 of this ISI Long Term Plan.

This program document does not include:

- Pump and valve testing (IWP and IWW) commitments that have been submitted to the Nuclear Regulatory Commission (NRC) under a separate document.
- Appendix J testing commitments that have been submitted to the Nuclear Regulatory Commission (NRC) under a separate document and are conducted in accordance with Salem Unit 2 Technical Specifications.
- Inservice examination and testing of mechanical and hydraulic snubbers (components supports) is conducted in accordance with Salem Unit 2 Technical Specifications.
- Steam generator tubing is conducted in accordance with Salem Unit 2 Technical Specifications.
- ASME XI IWE/IWL Exams

Several components (including Reactor Coolant Pump Flywheels) receive augmented inspections. Augmented exams are identified in Section 9. PSE&G maintains a contract with an Authorized Inspection Agency (AIA) for inspection (AI, ANI, ANII) services

1.0 INTRODUCTION

Inservice Inspection ISI Boundary Diagrams, procedures, examination and test records are obtained, maintained and stored in accordance with ASME Section XI requirements and this program. Reports are issued and maintained by the ISI / IST Group in compliance with PSEG Nuclear's Document Control process.

All water, steam, air and other fluid systems within the scope of ASME Section XI Code Class 1, 2, and 3 are listed in the appendices listed in the table of contents.

1.3 ISI Program Plan Update/ Revisions and Transmittal

This document is subject to periodic revisions and changes, due to plant modifications and / or changes to Regulatory and augmented requirements etc. Applicable sections of the initial issue (Revision 0) shall be transmitted to the NRC through PSE&G Licensing, however all future ISI Program Plan revisions and changes will be made available for review on-site.

Upon completion of the Third 10 Year Inspection Interval, this ISI Program Plan will be reviewed and revised as necessary to meet the requirements of the latest approved of Section XI listed in 10CFR50.55a that is in effect 12 months prior to the start of the next inspection interval.

1.4 Reference Documents

The following documents were referenced during the preparation of this ISI Program Plan:

Salem Updated Final Safety Analysis Report	
UFSAR Section No.	UFSAR Section Description
5.2.1.4	Integrity Of Reactor Coolant Pressure Boundary
5.2.8	Inservice Inspection Program
Appendix 3A	PSE&G Positions On USNRC Regulatory Guides
5.5.1	Reactor Coolant Pumps
5.5.2	Steam Generators
5.5.3	Reactor Coolant Piping
9.2.1	Service Water System

1.0 INTRODUCTION

Salem Updated Final Safety Analysis Report	
9.2.2	Component Cooling System
10.3	Main Steam System
13.1	Organization Structure
13.5	Plant Procedures
17.2	Quality Assurance During The Operations Phase
Regulatory, Codes and Standard Requirements	
Document Name	Document Version
ASME Section XI	1971, Winter 1972 Addenda (Preservice)
ASME Section XI	1974, Summer 1975 Addenda (1 st Interval ISI)
ASME Section XI	1983, Summer 1983 Addenda (2 nd Interval ISI)
ASME Section XI	1998 Edition up through and including 2000 Addenda (3 rd Interval ISI)
10CFR50.55a	Code of Federal Regulations, Title 10, Part 50.55a, Codes and Standards
EPRI TR-112657	Rev. B-A, Revised Risk-Informed Inservice Inspection Evaluation Procedure
Federal Register Vol. 67, No. 187	Final Rule – 10CFR Part 50- Codes and Standards of Nuclear Power Plants September 26, 2002, Pages 60520 – 60542
IEB 79-13	Cracking in Feedwater System Piping
IEB 79-17	Pipe Cracks in Stagnant Borated Water Systems at PWR Plants
IEB 80-08	Examination of Containment Liner Penetration Welds
IEB 82-02	Degradation of Threaded Fasteners in the Reactor Coolant Pressure Boundary of PWR Plants
IEB 88-08	Thermal Stresses in Piping Connected to Reactor Coolant Systems
IEB 88-11	Pressurizer Surge Line Thermal Stratification
Circular 76-06	Stress Corrosion Cracks in Stagnant, Low Pressure Stainless Steel Piping Containing Boric Acid Solution at PWRs.
IN 79-19	Pipe Cracks in Stagnant Borated Water Systems at PWR Plants
IN 80-27	Degradation of Reactor Coolant Pump Studs
IN 80-36	Failure of Steam Generator Support Bolting
IN 82-06	Failure of Steam Generator Primary Manway Closure Studs
IN 82-37	Cracking in the Upper Shell to Transition Cone Girth Weld of Steam Generator at an Operating PWR
IN 84-18	Stress Corrosion Cracking in PWR Systems
IN 84-89	Stress Corrosion Cracking in Nonsensitized 316 Stainless Steels
IN 85-65	Crack Growth in Steam Generator Girth Welds
IN 86-108	Degradation of Reactor Coolant System Pressure Boundary Resulting From Boric Acid Corrosion
IN 90-04	Cracking of the Upper Shell to Transition Cone Girth Welds in Steam Generators
IN 90-10	Primary Water Stress Corrosion Cracking (PWSCC) of Inconel 600
IN 90-32	Surface Crack and Subsurface Indications in the Weld of a Reactor Vessel Head
IN 90-68	Stress Corrosion Cracking of Reactor Coolant Pump Bolts
IN 91-05	Integrantular Stress Corrosion Cracking in Pressurized Water Reactor Safety Injection Accumulator Nozzles

1.0 INTRODUCTION

Regulatory, Codes and Standard Requirements	
Document Name	Document Version
IN 96-32	Implementation of 10CFR50.55a(g)(6)(i)(A) Augmented Examination of Reactor Vessel
IN 97-29	Containment Inspection Rule
IN 97-46	Unisolable Crack in High Pressure Injection Piping
IN 00-17	Crack in Weld Area of Reactor Coolant System Hot Leg Piping at V.C. Summer
GL 79-14	Cracking in Feedwater Lines
GL 83-15	Implementation of Reg. Guide 1.150 "Ultrasonic Testing of Reactor Vessel Welds During Preservice and Inservice Examinations, Rev. 1
GL-88-05	Boric Acid Corrosion of Carbon Steel Reactor Pressure Boundary Components in PWR Plants
GL 97-01	Degradation of Control Rod Drive Mechanism Nozzle and Other Vessel Closure Head Penetrations
ISI Program Procedures	
Procedure No.	Procedure Title
NC.NA-AP.ZZ-0027 (Q)	Inservice Inspection Program
SH.RA-AP.ZZ-0005 (Q)	Risk-Informed Inservice Inspection Program for Class 1 and 2 Piping Welds And Break Exclusion Region (MEB-3-1) Piping Welds
SC.RA-AP.ZZ-0021 (Q)	ISI Group Examination and Test Activities
SH.RA-AP.ZZ-0003 (Q)	Implementation of Appendix VIII
SH.RA-AP.ZZ-0101 (Q)	Control and Coordination of NDE Activities
SH.RA-AP.ZZ-0102 (Q)	Qualification of NDE Procedures
SH.RA-AP.ZZ-0103 (Q)	Interpretation, Evaluation, Disposition of NDE Indications
SH.RA-AP.ZZ-0104 (Q)	Review and Acceptance of NDE Result Records of ISI Long Term Plan Examinations
SH.RA-AP.ZZ-0113 (Q)	Qualification of Personnel
SH.SE-DG.ZZ-0001 (Z)	Inservice Inspection Program Long Term Plan Control
ISI Program Interface Procedures	
Procedure No.	Procedure Title
NC.CC-AP.ZZ-0007 (Q)	Specialty Reviews for Engineering Changes
NC.NA-AP.ZZ-0003 (Q)	Document Control Program
NC.NA-AP.ZZ-0008 (Q)	Configuration Control Program
NC.NA-AP.ZZ-0011 (Q)	Records Management Program
NC.ER-AP.ZZ-0028 (Q)	Electronic Code Job Packages
NC.NA-AP.ZZ-0030 (Q)	Commitment Management
NC.NA-AP.ZZ-0066 (Q)	Control of Special Processes
SH.ER-AS.ZZ-0001 (Q)	Qualification and Certification Program for Nondestructive Examination (NDE) Personnel
NC.ER-TM.ZZ-0001 (Q)	PSEG Nuclear Repair Replacement Program Manual
PSEG-001-007	Final Report for the Risk-Informed Inservice Inspection Project for Salem Units 1 and 2
S-C-MP00-MGS-0001	PSE&G Pipe Specifications

1.0 INTRODUCTION

1.5 Glossary

Abrasion - Wearing away of a surface by rubbing and friction.

ASME Section XI - the eleventh section of the ASME Boiler and Pressure Vessel Code including its referenced Codes and standards

ASME Section XI Drawings - Include Piping and Instrument Diagrams (P&IDs), isometrics and component drawings which delineate the specific boundaries, areas or items requiring NDE and augmented NDE.

Assess - to determine by evaluation of data compared with previously obtained data such as operating data or design specifications

Augmented Requirements - Those NDE required by documents other than ASME Section XI, such as: Regulatory Guides, NUREGs, NRC Generic Letters, I. E. Bulletins/Notices, FSAR, Technical Specifications, manufacturer's recommendations, PSE&G Internal Commitments, etc.

Authorized Inspection Agency (AIA) - an organization that is empowered by an enforcement authority to provide inspection personnel and services as required by ASME Section XI

Authorized Nuclear Inspector (ANI) - an employee of an Authorized Inspection Agency who has been qualified in accordance with NCA-5000 of Section III of the ASME Boiler and Pressure Vessel Code

Authorized Nuclear Inservice Inspector (ANII) - a person who is employed and has been qualified by an Authorized Inspection Agency to verify that examinations, tests, and repair/replacement activities (that do not include welding or brazing) are performed in accordance with the requirements of ASME Section XI

Calibration Block Standards Drawings - The drawings which detail the specific configuration of individual standards used for calibrating ultrasonic test equipment.

Cavitation - Pitting of concrete caused by implosion

Code - ASME Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components", and Addenda

Component - an item in a nuclear power plant such as a vessel, pump, valve, or piping system

1.0 INTRODUCTION

Component Support – a metal support designed to transmit loads from a component to the load carrying building or foundation structure. Component supports include piping supports encompass those structural elements relied upon to either support the weight or provide structural stability to components.

Defect – a flaw (imperfection or unintentional discontinuity) of such size, shape, orientation, location, or properties as to be rejectable

Discontinuity – a lack of continuity or cohesion: an interruption in the normal physical structure of material or a product

Efflorescence (Leeching) – a deposit of salts, usually white, formed on a surface, the substance having emerged in solution from within either concrete or masonry and subsequently been precipitated by evaporation.

Enforcement Authority – a regional or local governing body, such as a State or Municipality of the United States empowered to enact and enforce Boiler and Pressure Vessel Code legislation (i.e., State of New Jersey)

Engineering Evaluation – an evaluation of indications that exceed allowable acceptance standards to determine if the margins required by the Design Specifications and Construction Codes are maintained

Erosion - Progressive disintegration of a solid by the abrasive or cavitation action of gases, fluids, or solids in motion

Evaluation – the process of determining the significance of examination or test results, including the comparison of examination or test results with applicable acceptance criteria or previous results

Examination – the performance of visual observations and nondestructive examinations (NDE) such as radiography, magnetic particle, liquid penetrant, eddy current, and ultrasonic methods

Examination Category – a grouping of items to examined or tested

Examination Plan - A document that provides detailed instructions for all aspects of the examination.

Flaw – an imperfection or unintentional discontinuity that is detectable by nondestructive examination

1.0 INTRODUCTION

General Corrosion – an approximately uniform wastage of a surface of a component, through chemical or electrochemical action, free of deep pits or cracks

Imperfection – a condition of being imperfect, a departure of a quality characteristic from its intended condition

Indication – the response or evidence from the application of a nondestructive examination

Inservice Examination – the process of visual, surface, or volumetric examination performed in accordance with the rules and requirements of ASME Section XI

Inservice Inspection – methods and actions for assuring the structural and pressure-retaining integrity of safety-related nuclear power plant components in accordance with the rules of ASME Section XI

Inspection – verification of the performance of examinations and tests by an Inspector

Inspection Interval - As defined by regulations, a ten-year time interval, during which the ISI program is applicable using specific and Addenda of ASME Section XI. The First 10-Year Inspection Interval commences on the date of commercial operation with the successive intervals beginning on the date the previous interval ends. Each of the inspection intervals may be increased or decreased by as much as 1 year. Additionally, the interval may be extended for a period equivalent to an outage, which extends continuously for six months or more. Adjustments shall not cause successive intervals to be altered by more than 1 year from the original pattern of intervals.

Inspection Period - duration of time within an inspection interval, (i.e., 1st Period, 0-3 years; 2nd Period, 4-7 years; 3rd Period, 8-10 years). The time frame is approximately equivalent to one third of an interval. Refer to Table IWX-2412-1 and provisions of IWX-2412 for specific requirements and limitations. It is used for apportioning the implementation of ISI Program examinations and tests during the interval.

Inspection Program – the plan and schedule for performing examination and tests

Item – a material, part, appurtenance, piping subassembly, component, or component support

1.0 INTRODUCTION

Instrument Root Valve - The first valve, in an instrument line, off of the main process line.

In-Vessel-Visual-Inspection (IVVI) Program - A portion of the ISI Program that identifies the internal attachments, surfaces, welds and components within the reactor pressure vessel boundary, which require NDE during the 10-Year Interval.

Nominal Operating Pressure - For Class 1 systems, the range of pressures that may normally be expected when the system is known to be operating at 100% reactor power.

Nondestructive Examination – an examination by the visual, surface, or volumetric method

Open Ended – a condition of piping or lines that permits free discharge to atmospheric or containment atmosphere

Owner – the organization legally responsible for the construction and/or operation of a nuclear facility including but not limited to one who has applied for, or who has been granted, a construction permit or operating license by the regulatory authority having lawful jurisdiction (i.e., PSEG Nuclear)

Preservice Inspection (PSI) - Those Nondestructive Examinations (NDE) including visual examinations performed on certain ASME Class 1, 2, 3 and MC components and their supports once, prior to initial plant operations as part of the Preservice Inspection Program, or following a component repair, replacement or modification. The results of these examinations provide a baseline for comparison to subsequent ISI examinations.

Pressure Test Program - A portion of the overall ISI Program which identifies the components and portions of piping in ASME Class 1, 2 and 3 systems, which are subject to various pressure tests during the 10-Year Interval. These tests include the pneumatic, leakage, functional or inservice types.

Regulatory Authority – a federal government agency empowered to issue and enforce regulations affecting the design, construction, and operation of nuclear power plants (i.e. United States Nuclear Regulatory Commission)

Relief Request - A written request submitted to the regulatory authority which identifies specific components that cannot be examined or tested in accordance with ASME Section XI or Regulatory augmented requirements. It includes the reason

1.0 INTRODUCTION

these requirements cannot be met and technical justification for performing an alternative to the requirements.

Relevant Condition – a condition observed during a visual examination that requires supplement examination, corrective measure, and correction by repair/replacement activities, or analytical evaluation

Repair – the process of restoring a nonconforming item by welding, brazing, or metal removal such that existing design requirements are met

Repair/Replacement Organization – the organization that performs repair/replacement activities under the provisions of the Owners Quality Assurance Program. The Owner may be the Repair/Replacement Organization.

Safety Evaluation /Safety Evaluation Report (SER)- NRC safety evaluations (SE's) provide the regulatory bases for NRC decisions in licensing actions such as amendments, exemptions and relief requests. Safety Evaluation Reports (SER's) are generally used for more significant licensing actions such as initial licenses and renewed operating licenses. The distinction between an SE and SER is that the SER is issued as a NUREG series report. The SEs and SERs are valuable in that they provide the bases for the staff's decisions."

Source Document - Any document containing requirements to which PSE&G is committed or which apply to PSE&G by virtue of law, such as federal, state and local laws and regulations.

Structural Discontinuity Welds - Include circumferential weld joints at pipe to vessel nozzle, pipe to valve body, pipe to pump casing, pipe to fittings and pipe to pipe of different schedule wall thickness.

Structural Integrity Test - the initial or subsequent pressure test of a containment structure to demonstrate the ability to withstand prescribed loads

Technical Position - An ISI Program record that documents the details of positions taken by PSE&G with respect to generalized Code requirements, and do not conflict with code requirements. These records amplify the Code requirements and provide consistent guidance for the implementation of the requirement.

Terminal Ends – The extremities of piping runs that connect structures, components or pipe anchors, each of which acts as a rigid restraint or provides at least 2 degrees of restraint to piping due to piping thermal expansion.

1.0 INTRODUCTION

Test – a procedure to obtain information, through measurement or observation to determine the operational readiness of a component or system while under controlled conditions

Verify – to determine that a particular action has been performed in accordance with the rules and requirements of Section XI either by witnessing the action or by reviewing records

2.0 ISI PROGRAM APPLICABILITY

Licensing Dates

2.1 Construction Permit Date

The date of issuance of the construction permit for Salem Nuclear Generating Station Unit 2 by the Nuclear Regulatory Commission (NRC) was September 25, 1968.

2.2 Operating License Date

The date of issuance of the operating license for Salem Nuclear Generating Station Unit 2 by the Nuclear Regulatory Commission (NRC) was October 13, 1981.

The Facility operating license number is DPR-75.

2.3 Codes and Standards

In accordance with 10CFR50.55a(g)(4)(ii), Inservice Inspection of components subject to examination during the Third 10 Year Inspection Interval Salem Nuclear Generating Station Unit 2 will comply with the requirements of the specified Code of record referenced by 10CFR50.55a(b) on the date 12 months prior to the start of the Third 10 Year Inspection Interval. Based on this requirement the applicable Code was Section XI of the ASME Boiler and Pressure Vessel Code, Division 1, 1998 Edition up through and including 2000 Addenda per NRC's Final Rulemaking - 10CFR Part 50- Codes and Standards of Nuclear Power Plants September 26, 2002

- Augmented examinations were included in this program based upon various documents as described in Section 10.
- As permitted by paragraph 50.55a(g)(4)(iv), PSEG Nuclear may elect, for certain components, to meet supplemental requirements as set forth in the Editions and Addenda of the Code which become effective subsequent to the 1995 Edition, 1996 Addenda of Section XI. Later Editions and Addenda of ASME Section XI or ASME Code Cases that are adopted by PSEG Nuclear will be identified to the NRC. It is the intent of PSEG Nuclear to continually apply appropriate Code changes, with NRC approval, which improve the overall quality of Salem Generating Station's examination program.
- The Safety Injection System Accumulators and associated discharge piping which are classified as Nuclear Class III on the design drawings

2.0 ISI PROGRAM APPLICABILITY

have been voluntarily upgraded to Nuclear Class II for inservice inspection requirements only, in accordance with the guidance previously received from Regulatory Guide 1.26.

- Reactor pressure vessel welds will be conducted in accordance with ASME Section XI Appendix VIII requirements, unless otherwise stated.
- The RPV Shell Weld augmented examinations required by 10CFR 50.55a(g)(6)(ii)(A)(2) were previously satisfied during the second inspection interval during 2R12.
- Section V of the ASME Code.
- Salem Generating Station's UFSAR.

2.4 Commercial Operating Experience

The beginning of the First 10 Year Inspection Interval for Salem Nuclear Generating Station Unit 2 started October 13, 1981 with the issuance of the Operating License and ended May 10 1992 (2R06).

The beginning of the Second 10 Year Inspection Interval commenced on May 10, 1992 and ended approximately November 23, 2003 (Completion of 2R13). This interval excludes 26 Months and 21 Days (6/8/95 - 8/29/97) for an extended shutdown, and less 7 Months and 16 days (approximately) to coincide with end of the refueling outage per IWA-2430 (d) [1986]. The cumulative decrease per IWA-2430 (d)(1) [98A2000] is approx. 2 months 11 days.

2.5 Preservice Inspection Program and Previous Inservice Inspection LTPs

2.5.1 Preservice Inspection requirements were selected and examined upon components in accordance with the following documents:

- ASME Section XI, 1971 with Addenda through the Winter of 1972 (except where specific guidance was otherwise provided by PSEG).
- ASME Section XI, 1971 with Addenda through the Winter 1972 (This was used for the examination of the Main Steam Header Branch Connections at ITT Grinnell Industrial Piping Between May and June of 1975.

2.0 ISI PROGRAM APPLICABILITY

2.5.2 The First Inservice Inspection Interval was conducted in accordance with ASME Section XI, 1974 with Addenda through the Summer of 1975 and supplemented with NRC approved Code Cases.

2.5.3 The Second Inservice Inspection Interval was conducted in accordance with 1986 Edition and supplemented with NRC approved Code Cases.

2.6 Program Plan Scope

The Salem Nuclear Generating Station Unit 2 Inservice Inspection Program complies with the requirements of Section XI of the ASME Boiler and Pressure Vessel Code, 1998 Edition, 2000 Addenda.

This document is applicable to the requirements of Section XI, Subsections IWA, IWB, IWC, IWD, and IWF. References in this document to the Code, Examination Categories, Item Number, etc. refer to Section XI unless otherwise noted.

The following NRC accepted ASME Code Cases (Ref. Regulatory Guide 1.147 Revision 13) for alternate examinations and additional instructions are selected for use as part of this program. Code Case contents will be fully implemented in accordance with stated requirements and imposed supplemental requirements stated within Regulatory Guide 1.147. Code Cases requires NRC approval prior to implementation. Obtaining NRC approval can be observed by either incorporation into Regulatory Guide 1.147 or the Safety Evaluation Report (SER) process.

2.0 ISI PROGRAM APPLICABILITY

A. ASME Code Cases

ASME Section XI Code Cases either clarify the intent of the Code or provide alternatives to Section XI requirements. The NRC approves the usage and or takes exception to specific Code Cases in regulatory Guide 1.147. Code Cases that are not authorized for usage in this Regulatory Guide are not implemented unless specifically approved by the NRC in the form of a Relief Request.

Code Case No.	Reg. Guide 1.147	Relief Request No.	Code Case Title
N-460	Fully Endorsed		Alternative Examination Coverage for Class 1 and 2 Welds
N-471	Fully Endorsed		Acoustic Emissions for Successive Inspections
N-481	Fully Endorsed		Alternative Examination Requirements for Austenitic Pump Casings
N-498-4	Endorsed With Conditions		<p>Alternative Rules for 10-Year Hydrostatic Pressure Testing for Class 1,2 and 3 Systems</p> <p>The provisions of IWA-5213, "Test Condition Holding Times," 1989 Edition, are to be used.</p> <p>Code Case N-498-4 is only being implemented as it pertains to Class 3 systems. (The portions of the Case that address Class 1 and 2 systems have been incorporated into the ASME Section XI code of record, 1998 Edition through the 2000 Addenda, applicable to the Salem Unit 1 Third Interval.)</p>
N-532-1	Endorsed With Conditions		<p>Alternative Requirements for Repair and Replacement Documentation Requirements and Inservice Inspection Summary Report Preparation and Submission by IWA-4000 and IWA-6000.</p> <p>Completed OAR-1 forms must be submitted to the NRC within 90 days of the completion of the outage.</p>
N-533-1	Endorsed With Conditions		<p>Alternative Requirements for VT-2 Visual Examination of Class 1,2, and 3 Insulated Pressure-Retaining Bolted Connections</p> <p>The provisions of IWA-5213, "Test Condition Holding Times," 1989 Edition, are to be used.</p>
N-537	Fully Endorsed		Location of Ultrasonic Depth- Sizing Flaws
N-545	Fully Endorsed		<p>Alternative Requirements for Conduct of Performance Demonstration Detection Test of Reactor Vessel</p> <p>This Case is endorsed by 10CFR50.55a(b)(2)(xv)(J) as modified by 10CFR50.55a(b)(2)(xv)(I)(1)"</p>

2.0 ISI PROGRAM APPLICABILITY

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N-532-1	Endorsed With Conditions		<p>Alternative Requirements for Repair and Replacement Documentation Requirements and Inservice Inspection Summary Report Preparation and Submission by IWA-4000 and IWA-6000.</p> <p>Completed OAR-1 forms must be submitted to the NRC within 90 days of the completion of the outage.</p>
N-533-1	Endorsed With Conditions		<p>Alternative Requirements for VT-2 Visual Examination of Class 1,2, and 3 Insulated Pressure-Retaining Bolted Connections</p> <p>The provisions of IWA-5213, "Test Condition Holding Times," 1989 Edition, are to be used.</p>
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2.0 ISI PROGRAM APPLICABILITY

Code Case No.	Reg. Guide 1.147	Relief Request No.	Code Case Title
N-552	Endorsed With Conditions		<p>Alternative Methods- Qualification for Nozzle Inside Radius Section from the Outside Surface</p> <p>This Case is endorsed by 10CFR50.55a(b)(2)(xv)(J) . At least 50% of the flaws in the demonstration test set must be cracks and the maximum misorientation must be demonstrated with cracks. Flaws in nozzles with bore diameters equal to or less than 4 inches may be notches. The number of false calls must not exceed three for the detection criteria.</p>
N-566-2		S2-I3-RR-A06	Corrective Action for Leakage Identified at Bolted Connections
N-578		RI-ISI Template Submittal	Risk-Informed Requirements for Class 1, 2, and 3 Piping, Method B
N-623	Fully Endorsed	S2-I3-RR-B07	<p>Deferral of Inspections of Shell to Flange and Head to Flange Welds of a Reactor Vessel</p> <p>Applicability Index reflecting up to including 1998 Edition was incorrect and should reflect 2001 addenda as evidence by Code Case being incorporated into 2002 Addenda of ASME XI.</p>
N-624	Fully Endorsed		Successive Inspections
N-648-1	Endorsed With Conditions		<p>Alternative Requirements for Inner Radius Examination of Class 1 Reactor Vessel nozzles</p> <p>In place of a UT examination a visual examination with enhanced magnification that has a resolution sensitivity to detect a 1-mil width wire or crack, utilizing the allowable flaw length criteria of Table IWB-3512-1 with limiting assumptions on the flaw aspect ratio. The provisions of Table IWB-2500-1. Examination Category B-D, continue to apply except that, in place of examination volumes, the surfaces to be examined are the external surfaces shown in the figures applicable to the table.</p>

B. NRC Regulatory Guides

The following NRC Regulatory Guides were reviewed for applicability. In certain instances exceptions may have been taken to portions of a particular guide. These exceptions are identified in Appendix 3A of the Salem UFSAR.

Regulatory Guide No.	Regulatory Guide Title
Regulatory Guide 1.8	Qualification And Training Of Personnel For Nuclear Power Plants
Regulatory Guide 1.14	Reactor Coolant Pump Flywheel Integrity
Regulatory Guide 1.26	Quality Group Classifications and Standards for Water, Steam, Radioactive-Waste-Containing Components of Nuclear Power Plants. (Rev. 3, February 1976)

2.0 ISI PROGRAM APPLICABILITY

Regulatory Guide No.	Regulatory Guide Title
Regulatory Guide 1.33	Quality Assurance Program Requirements (Operation
Regulatory Guide 1.137	Fuel-Oil Systems For Standby Diesel Generators
Regulatory Guide 1.147	Inservice Inspection Code Case Acceptability, ASME Section XI, Division 1, (Latest Revision in Effect)
Regulatory Guide 1.150	Ultrasonic Testing of Reactor Vessel Welds During Preservice and Inservice Examination (Rev. 1, Feb. 1983)
Regulatory Guide 1.174	An Approach for Using Probabilistic Risk Assessment in Risk-Informed Decisions on Plant-Specific Changes to the Licensing Basis
Regulatory Guide 1.178	An Approach for Plant-Specific Risk-Informed Decision making Inservice Inspection of Piping
Regulatory Guide 1.65	Materials And Inspections For Reactor Vessel Closure Studs
Regulatory Guide 1.83	Inservice Inspection Of PWR Steam Generator Tubes (Revision 1)
Regulatory Guide 1.94	Quality Assurance Requirements For Installation, Inspection, And Testing Of Structural Concrete And Structural Steel During The Construction Phase Of Nuclear Power Plants

C. Salem Unit 2 Technical Specification Requirements

The following Salem Unit 2 Technical Specification sections were reviewed for applicability:

Tech. Spec. Reference No.	Technical Specification Application
4.0.5	Surveillance Requirements for inservice inspection and testing of ASME Code Class 1, 2 and 3 components
3/4.4.5	Reactor Coolant Steam Generators
3/4.4.9	Pressure/Temperature Limits Reactor Coolant System
3/4.10	Structural Integrity ASME Code Class 1, 2 And 3 Components Reactor Coolant System & Reactor Coolant Pump Flywheel
4.4.10.1.2	Augmented Inservice Inspection Program For Steam Generator Channel Heads
3/4.7.9	Snubbers
3/4.6.1.6	Containment Structural Integrity
6.8.1.c	Procedures and Programs
6.10.2.h	Record Retention

D. UFSAR Requirements

The following UFSAR sections were reviewed for applicability:

2.0 ISI PROGRAM APPLICABILITY

UFSAR Reference No.	UFSAR Application
5.2.1.4	Integrity Of Reactor Coolant Pressure Boundary
5.2.8	Inservice Inspection Program
Appendix 3A	PSE&G Positions On USNRC Regulatory Guides
5.5.1	Reactor Coolant Pumps
5.5.2	Steam Generators
5.5.3	Reactor Coolant Piping
9.2.1	Service Water System
9.2.2	Component Cooling System
10.3	Main Steam System
13.1	Organization Structure
13.5	Plant Procedures
17.2	Quality Assurance During The Operations Phase

2.7 System Classification

The classification of the systems is in accordance with PSEG Nuclear Specification S-C-MPOO-MGS-0001. These classifications are based on the requirements of 10CFR50 and the guidance contained within NRC Regulatory Guide 1.26 and UFSAR.

PSEG Nuclear's Specification S-C-MP00-MGS-0001-12 (61-6200) identifies the code requirements for design and installation. The design of nuclear piping as noted in the Piping Specification, conform to the design chapter of ANSI Standard Code for Pressure Piping, ANSI/ASME B31.1. During construction, material inspections, fabrication, quality control, and applicable field installation conform to the ANSI Standard Code for Nuclear Power Piping, ANSI B31.7.

The boundaries for Nuclear Class 1, 2 and 3 systems in the Inservice Examination Program are listed in the Inservice Inspection Boundary Basis Table (Appendix A) and shown on the Inservice Inspection Boundary Diagrams (Appendix B).

2.8 Request for Relief from Examination

In accordance with 10CFR50.55a(g)(5)(iii), where it is determined that conformance to the requirements of the Code is impractical, within the limitations of design, geometry and materials of construction of a component, specific relief from examination will be submitted to the Commission (NRC) with the necessary information and justification to support the determination(s).

2.0 ISI PROGRAM APPLICABILITY

Requests for Relief from examination requirements are contained within Section 12.

3.0 EXEMPTIONS

Components (or parts of components) may be exempted from volumetric, surface, or visual examination requirements of Tables IWB-2500-1, IWC-2500-1, IWD-2500-1, and IWF-2500-1.

3.1 IWB – Class 1 Exemptions (1989)

Class 1 Exemptions were chosen in accordance with ASME XI 1989 IWB-1220 *Components Exempt from Examination* per the requirements stated in 10CFR50.55a (b)(xi). See Appendix A for the Inservice Inspection Program Boundary Basis Table that identifies component/line exemption for class 1, 2 & 3 systems, structures and components.

The following components or parts of components are exempted from the volumetric and surface examination requirements of IWB-2500:

(a) Components ^{1,2} that are connected to the reactor coolant system and part of the reactor coolant pressure boundary, ³ and that are of such a size and shape so that upon postulated rupture the resulting flow of coolant from the reactor coolant system under normal plant operating conditions is within the capacity of makeup systems which are operable from on-site emergency power;

(b) (1) Piping of NPS 1 and smaller, except for steam generator tubing;
(2) Components and their connections in piping ⁴ of NPS 1 and smaller;

(c) Reactor vessel head connections and associated piping, NPS 2 and smaller, made inaccessible by control rod drive penetrations.

¹ Refer to 10 CFR 50, section 55a (c)(2), revised March 15, 1984.

² The exemptions from examination in IWC-1220 may be applied to those components permitted to be Class 2 in lieu of Class 1 by the regulatory authority having jurisdiction at the plant site.

³ Reactor coolant pressure boundaries are defined in 10 CFR 50, Section 50.2(v); revised January 1, 1975.

⁴ In piping is defined as having one inlet and one outlet pipe, each of which shall be NPS 1 or smaller.

3.0 EXEMPTIONS

3.2 IWC - Class 2 Exemptions (1998 Edition, 2000 Addenda):

Class 2 Exemptions were chosen in accordance with ASME XI 1998 Edition up through and including 2000 Addenda IWC-1220 *Components Exempt From Examination* per the requirements stated in 10CFR50.55a (g)(4). See Appendix A for the Inservice Inspection Program Boundary Basis Table that identifies component / line exemption for class 1, 2 & 3 systems, structures and components.

The following components or parts of components are exempted from the volumetric and surface examination requirements of IWC-2500.

IWC-1221 Components Within RHR, ECC, and CHR Systems or Portions of Systems ¹

(a) For systems, except high pressure safety injection systems in pressurized water reactor plants:

- (1) Piping NPS 4" and smaller
- (2) Vessels, pumps, and valves and their connections in piping \geq 4" NPS and smaller

(b) For high pressure safety injection systems in pressurized water reactor plants:

- (1) Piping NPS 1½ and smaller
- (2) Vessels, pumps, and valves and their connections in piping \geq 2 NPS 1½ and smaller

(c) Vessels, piping, pumps, valves, other components, and component connections of any size in statically pressurized, passive (i.e., no pumps) safety injection systems ³ of pressurized water reactor plants.

(d) Piping and other components of any size beyond the last shutoff valve in open ended portions of systems that do not contain water during normal plant operating conditions.

IWC-1222 Components Within Systems or Portions of Systems Other Than RHR, ECC, and CHR Systems ¹

(a) For systems, except auxiliary feedwater systems in pressurized water reactor plants:

- (1) Piping NPS 4" and smaller

3.0 EXEMPTIONS

- (2) Vessels, pumps, and valves and their connections in piping \geq 4" NPS and smaller
- (b) For auxiliary feedwater systems in pressurized water reactor plants:
 - (1) Piping NPS 1½ and smaller
 - (2) Vessels, pumps, and valves and their connections in piping \geq 2 NPS 1½ and smaller
- (c) Vessels, piping, pumps, valves, other components, and component connections of any size in systems or portions of systems that operate (when the system function is required) at a pressure equal to or less than 275 psig (1900kPa) and at a temperature equal to or less than 200°F (93°C).
- (d) Piping and other components of any size beyond the last shutoff valve in open ended portions of systems that do not contain water during normal plant operating conditions.

IWC-1223 Inaccessible Welds

Welds or portions of welds that are inaccessible due to being encased in concrete, buried underground, located inside a penetration, or encapsulated by guard pipe.

IWC-1223 Inaccessible Welds

Welds or portions of welds that are inaccessible due to being encased in concrete, buried underground, located inside a penetration, or encapsulated by guard pipe.

¹ RHR, ECC, and CHR systems are the Residual Heat Removal, Emergency Core Cooling, and Containment Heat Removal Systems, respectively.

² In piping is defined as having a cumulative inlet and a cumulative outlet pipe cross-sectional area neither of which exceeds the nominal OD cross-sectional area of the designated size.

³ Statically pressurized, passive safety injection systems of pressurized water reactor plants are typically called:

- (a) Accumulator tank and associated system
- (b) Safety injection tank and associated system
- (c) Core flooding tank and associated system

3.3 IWD - Class 3 Exemptions (1998 Edition, 2000 Addenda):

Class 3 Exemptions were chosen in accordance with ASME XI 1998 Edition up through and including 2000 Addenda IWD-1220 *Components Exempt From Examination* per the requirements stated in 10CFR50.55a (g)(4). See

3.0 EXEMPTIONS

Appendix A for the Inservice Inspection Program Boundary Basis Table that identifies component / line exemption for class 1, 2 & 3 systems, structures and components.

The examination requirements of IWD-1210 shall apply to pressure retaining components and their welded attachments on Class 3 systems in support of the following functions:

- (a) Reactor shutdown
- (b) Emergency core cooling
- (c) Containment heat removal
- (d) Atmosphere cleanup
- (e) Reactor Residual Heat Removal
- (f) Residual Heat Removal from Spent Fuel Storage Pool

The following components or parts of components are exempted from the VT-1 visual examination requirements of IWD-2500:

- (a) Piping NPS 4 and smaller
- (b) Vessels, pumps, and valves and their connections in piping ¹ NPS 4 and smaller
- (c) Components that operate at a pressure of 275 psig or less and at a temperature 275°F or less in systems (or portions of systems) whose function is not required in support of reactor residual heat removal, containment heat removal, and emergency core cooling;
- (d) *Welds* or portions of welds that are inaccessible due to being encased in concrete, buried underground, located inside a penetration, or encapsulated by guard pipe.

¹ In piping is defined as having a cumulative inlet and a cumulative outlet pipe cross-sectional area neither of which exceeds the nominal OD cross-sectional area of the designated size.

3.4 IWF - Component Support Exemptions:

Class 1 Supports (1989 Edition & 1998 Edition, 2000 Addenda)

The exemption criteria found within IWF-1230 from the 1998 Edition, including the 2000 Addenda was applied to the supports of Class 1 components.

3.0 EXEMPTIONS

This exemption criteria stipulates, in part, that the supports exempt from the requirements of IWF-2000 are those connected to piping and other items exempted from the volumetric, surface, or VT-1 or VT-3 visual examination by IWB-1220, which would normally also be from the 1998 Edition, including the 2000 Addenda.

However, 10CFR50.55a (b)(2)(xi) of the regulation stipulates that licensees may not apply IWB-1220, '*Components Exempt from Examination*,' of Section XI, 1989 Addenda through the 2000 Addenda, and shall apply IWB-1220, 1989 Edition.

Therefore, the exemption of Class 1 component supports was based on the piping and components exempted by IWB-1220 of the 1989 Edition.

In addition, portions of supports that are inaccessible by being encased in concrete, buried underground, or encapsulated by guard pipe are also exempt from the examination requirements of IWF [1998 Edition, 2000 Addenda].

Class 2 & Class 3 Supports (1998 Edition, 2000 Addenda)

The exemption criteria found within IWF-1230 from the 1998 Edition, including the 2000 Addenda was applied to the supports of Class 2, and 3 components.

This exemption criteria stipulates, in part, that the supports exempt from the requirements of IWF-2000 are those connected to piping and other items exempted from the volumetric, surface, or VT-1 or VT-3 visual examination by IWC-1220 and IWD-1220 from the 1998 Edition, including the 2000 Addenda.

In addition, portions of supports that are inaccessible by being encased in concrete, buried underground, or encapsulated by guard pipe are also exempt from the examination requirements of IWF [1998 Edition, 2000 Addenda].

4.0 CLASS 1 EXAM CATEGORIES

Included in this section are the requirements for the Class 1 examination categories in accordance with Section XI.

The examination categories are used for organization purposes and documentation of selection basis for the preparation of the Salem Nuclear Generating Station Unit 1 Third 10-Year Inspection Interval Inservice Inspection Program Plan.

The following tables identify Class 1 Exam Categories and their descriptions for the items listed below:

The following Exam Category tables may reference "notes". The notes referred to correspond with those notes located within ASME XI Table IWX-2500-1. Individuals should refer to the corresponding ASME Category ASME XI Table IWX-2500-1 notes to obtain desired information.

EXAM CATEGORY	DESCRIPTION
B-A	Pressure Retaining Welds in Reactor Vessel
B-B	Pressure Retaining Welds in Vessels Other Than Reactor Vessels
B-D	Full Penetration Welds of Nozzles in Vessels
B-F*	Pressure Retaining Dissimilar Metal Welds In Vessel Nozzles
B-G-1	Pressure Retaining Bolting, Greater than 2 inches in Diameter
B-G-2	Pressure Retaining Bolting, 2 inches and Less in Diameter
B-J*	Pressure Retaining Welds in Piping
B-K	Welded Attachments for Vessels, Piping, Pumps and Valves
B-L-1	Pressure Retaining Welds in Pump Casings
B-L-2	Pump Casing
B-M-1	Pressure Retaining Welds in Valve Bodies
B-M-2	Valve Bodies
B-N-1	Interior of Reactor Vessel
B-N-2	Welded Core Support Structures and Interior Attachments to Reactor Vessels
B-N-3	Removable Core Support Structures
B-O	Pressure Retaining Welds in Control Rod Housings
B-P	All Pressure Retaining Components
B-Q	Steam Generator Tubing [Governed By Salem Unit 2 Technical Specifications as Permitted by 10.CFR50.55a (b)(2)(iii)]

* Examination Categories B-F and B-J are no longer applicable. See Examination Category R-A in Section 17.0.

The listing and schedule of components subject to examination during the Third inspection interval are located in Appendix F

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING WELDS IN REACTOR VESSEL			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-A	B1.11	CIRCUMFERENTIAL SHELL WELDS	Essentially 100% of the weld length of all welds requires examination. Deferral is permissible.
B-A	B1.12	LONGITUDINAL SHELL WELDS	Essentially 100% of the weld length of all welds requires examination. Deferral is permissible.
B-A	B1.21	CIRCUMFERENTIAL HEAD WELDS	Accessible length of all welds requires examination. Deferral is permissible.
B-A	B1.22	MERIDIONAL HEAD WELDS	Accessible length of all welds requires examination. Deferral is permissible.
B-A	B1.30	SHELL-TO-FLANGE WELD	Examine essentially 100% of weld length. Partial deferral permissible per Code Note (3).
B-A	B1.40	HEAD-TO-FLANGE WELD	Examine essentially 100% of weld length. Partial deferral is not permissible per Code Note (4).
B-A	B1.51	REPAIR WELDS-BELTLINE REGION	Examine all weld repair areas. Deferral is permissible.

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING WELDS INVESSELS OTHER THAN REACTOR VESSELS			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-B	B2.11	PRESSURIZER-CIRCUMFERENTIAL SHELL-TO-HEAD WELDS	Examine essentially 100% of weld length of both welds. Deferral not permissible.
B-B	B2.12	PRESSURIZER-LONGITUDINAL SHELL-TO-HEAD WELDS	Examine 1 foot of one weld that intersects the circumferential weld per head. Deferral not permissible.
B-B	B2.21	PRESSURIZER-CIRCUMFERENTIAL HEAD WELDS	Examine 1 weld per head. Deferral not permissible.
B-B	B2.22	PRESSURIZER-MERIDIONAL HEAD WELDS	Examine 1 weld per head. (Includes welds within 90 deg. meridian of head.) Deferral not permissible.
B-B	B2.31	STEAM GENERATORS (PRIMARY SIDE)-CIRCUMFERENTIAL HEAD WELDS	Examine 1 weld per head, limited to 1 vessel among group. Deferral not permissible.
B-B	B2.32	STEAM GENERATORS (PRIMARY SIDE)-MERIDIONAL HEAD WELDS	Examine 1 weld per head, limited to 1 vessel among group. Deferral not permissible.
B-B	B2.40	STEAM GENERATORS (PRIMARY SIDE)-TUBESHEET-TO-HEAD WELD	Examine essentially 100% weld length, limited to 1 vessel among group. Deferral not permissible.
B-B	B2.51	HEAT EXCHANGERS (PRIMARY SIDE)-HEAD-CIRCUMFERENTIAL HEAD WELDS	Examine 1 weld per head, limited to 1 vessel among group. Deferral not permissible.
B-B	B2.52	HEAT EXCHANGERS (PRIMARY SIDE)-HEAD-MERIDIONAL HEAD WELDS	Examine 1 weld per head, limited to 1 vessel among group. Deferral not permissible.
B-B	B2.60	HEAT EXCHANGERS (PRIMARY SIDE)-SHELL-TUBESHEET-TO-HEAD WELDS	Examine essentially 100% weld length, limited to 1 vessel among group. Deferral not permissible.
B-B	B2.70	HEAT EXCHANGERS (PRIMARY SIDE)-SHELL-LONGITUDINAL WELDS	Exam 1 foot of 1 weld at each end of shell, limited to 1 vessel among group. Deferral not permissible
B-B	B2.80	HEAT EXCHANGERS (PRIMARY SIDE)-SHELL-TUBESHEET-TO-SHELL WELDS	Essentially 100% weld length, each end, limited to 1 vessel among group. Deferral not permissible.

4.0 CLASS 1 EXAM CATEGORIES

**SALEM NUCLEAR GENERATING STATION
INSERVICE INSPECTION PROGRAM
ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION
CODE EDITION: 1998 Edition, 2000 Addenda**

FULL PENETRATION WELDS OF NOZZLES IN VESSELS (INSPECTION PROGRAM A)

EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-D	B3.10	REACTOR VESSEL-NOZZLE-TO-VESSEL WELDS	Inspection Program A not selected.
B-D	B3.20	REACTOR VESSEL-NOZZLE INSIDE RADIUS SECTION	Inspection Program A not selected.
B-D	B3.30	PRESSURIZER-NOZZLE-TO-VESSEL WELDS	Inspection Program A not selected.
B-D	B3.40	PRESSURIZER-NOZZLE INSIDE RADIUS SECTION	Inspection Program A not selected. Must Use 1998 Edition per 10CFR50.55a
B-D	B3.50	STEAM GENERATORS (PRIMARY SIDE)-NOZZLE-TO-VESSEL WELDS	Inspection Program A not selected.
B-D	B3.60	STEAM GENERATORS (PRIMARY SIDE)-NOZZLE INSIDE RADIUS SECTION	Inspection Program A not selected. Must Use 1998 Edition per 10CFR50.55a
B-D	B3.70	HEAT EXCHANGERS (PRIMARY SIDE)-NOZZLE-TO-VESSEL WELDS	Inspection Program A not selected.
B-D	B3.80	HEAT EXCHANGERS (PRIMARY SIDE)-NOZZLE INSIDE RADIUS SECTION	Inspection Program A not selected.

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
- FULL PENETRATION WELDS OF NOZZLES IN VESSELS (INSPECTION PROGRAM B)			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-D	B3.90	REACTOR VESSEL-NOZZLE-TO-VESSEL WELDS	All Nozzles, 25% to 50% 1 st period, Remainder by end of Interval. See Notes 2, 3, & 5.
B-D	B3.100	REACTOR VESSEL-NOZZLE INSIDE RADIUS SECTION	All Nozzles, 25% to 50% 1 st period, Remainder by end of Interval. See Notes 2 & 5.
B-D	B3.110	PRESSURIZER-NOZZLE-TO-VESSEL WELDS	Examine all nozzles. Deferral not permissible.
B-D	B3.120	PRESSURIZER-NOZZLE INSIDE RADIUS SECTION	Examine all nozzles. Deferral not permissible. Must Use 1998 Edition per 10CFR50.55a
B-D	B3.130	STEAM GENERATORS (PRIMARY SIDE)-NOZZLE-TO-VESSEL WELDS	Examine all nozzles. Deferral not permissible.
B-D	B3.140	STEAM GENERATORS (PRIMARY SIDE)-NOZZLE INSIDE RADIUS SECTION	Examine all nozzles. Deferral not permissible. Must Use 1998 Edition per 10CFR50.55a
B-D	B3.150	HEAT EXCHANGERS (PRIMARY SIDE)-NOZZLE-TO-VESSEL WELDS	Examine all nozzles. Deferral not permissible.
B-D	B3.160	HEAT EXCHANGERS (PRIMARY SIDE)-NOZZLE INSIDE RADIUS SECTION	Examine all nozzles. Deferral not permissible.

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION INSERVICE INSPECTION PROGRAM CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING DISSIMILAR METAL WELDS IN VESSEL NOZZLES			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-F	B5.10	REACTOR VESSEL-NOZZLE-TO-SAFE END BUTT WELDS ≥ 4 INCHES NOMINAL PIPE SIZE	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-F	B5.20	REACTOR VESSEL-NOZZLE-TO-SAFE END BUTT WELDS < 4 INCHES NOMINAL PIPE SIZE	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-F	B5.30	REACTOR VESSEL-NOZZLE-TO-SAFE END SOCKET WELDS	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-F	B5.40	PRESSURIZER-NOZZLE-TO-SAFE END BUTT WELDS ≥ 4 INCHES NOMINAL PIPE SIZE	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-F	B5.50	PRESSURIZER-NOZZLE-TO-SAFE END BUTT WELDS < 4 INCHES NOMINAL PIPE SIZE	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-F	B5.60	PRESSURIZER-NOZZLE-TO-SAFE END SOCKET WELDS	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-F	B5.70	STEAM GENERATOR-NOZZLE-TO-SAFE END BUTT WELDS ≥ 4 INCHES NOMINAL PIPE SIZE	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-F	B5.80	STEAM GENERATOR-NOZZLE-TO-SAFE END BUTT WELDS < 4 INCHES NOMINAL PIPE SIZE	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-F	B5.90	STEAM GENERATOR-NOZZLE-TO-SAFE END SOCKET WELDS	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-F	B5.100	HEAT EXCHANGERS-NOZZLE-TO-SAFE END BUTT WELDS ≥ 4 INCHES NOMINAL PIPE SIZE	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-F	B5.110	HEAT EXCHANGERS-NOZZLE-TO-SAFE END BUTT WELDS < 4 INCHES NOMINAL PIPE SIZE	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-F	B5.120	HEAT EXCHANGERS-NOZZLE-TO-SAFE END SOCKET WELDS	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING BOLTING GREATER THAN 2 INCHES IN DIAMETER			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-G-1	B6.10	REACTOR VESSEL-CLOSURE HEAD NUTS	Examine all nuts. Deferral is permissible.
B-G-1	B6.20	REACTOR VESSEL-CLOSURE STUDS, IN PLACE	All studs. Deferral is permissible.
B-G-1	B6.30	REACTOR VESSEL-CLOSURE STUDS, WHEN REMOVED	All studs. Deferral is permissible.
B-G-1	B6.40	REACTOR VESSEL-THREADS IN FLANGE	All threads in flange, only when disassembled. Deferral is permissible.
B-G-1	B6.50	REACTOR VESSEL-CLOSURE WASHERS, BUSHINGS	All washers & bushings, only when disassembled. May examine bushings in-place. Deferral permissible.
B-G-1	B6.60	PRESSURIZER-BOLTS AND STUDS	All bolts & studs. Deferral is permissible.
B-G-1	B6.70	PRESSURIZER-FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED	1 In. annular surface around each stud, only when connections are disassembled. Deferral permissible.
B-G-1	B6.80	PRESSURIZER-NUTS, BUSHINGS, AND WASHERS	All nuts & washers. All bushings (in place-ok) only when disassembled. Deferral is permissible.
B-G-1	B6.90	STEAM GENERATORS-BOLTS AND STUDS	Limited to Components selected per B-B. All bolts & studs. Deferral permissible.
B-G-1	B6.100	STEAM GENERATORS-FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED	1 In. annular surface around each stud. Limited to Components. selected per B-B. Deferral permissible.
B-G-1	B6.110	STEAM GENERATORS-NUTS, BUSHINGS, AND WASHERS	Limited to Components. selected per B-B. All nuts & washers. Bushings see Note 2. Deferral permissible.
B-G-1	B6.120	HEAT EXCHANGERS-BOLTS AND STUDS	Limited to Components. selected per B-B. All bolts & studs. Deferral permissible.
B-G-1	B6.130	HEAT EXCHANGERS-FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED	1 In. annular surface around each stud. Limited to Components. selected per B-B. Deferral permissible.
B-G-1	B6.140	HEAT EXCHANGERS-NUTS, BUSHINGS, AND WASHERS	Limited to Components. selected per B-B. All nuts & washers. Bushings see Note 2. Deferral permissible.

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING BOLTING GREATER THAN 2 INCHES IN DIAMETER (cont'd)			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-G-1	B6.150	PIPING-BOLTS AND STUDS	Limited to Components. Selected per B-J. All bolts & studs. Deferral permissible.
B-G-1	B6.160	PIPING-FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED	1 in. annular surface around each stud. Limited to Components. Selected per B-J. Deferral permissible.
B-G-1	B6.170	PIPING-NUTS, BUSHINGS, AND WASHERS	Limited to Components. Selected per B-J. All nuts & washers. Bushings see Note 2. Deferral permissible.
B-G-1	B6.180	PUMPS-BOLTS AND STUDS	Limited to Components. Selected per B-L-2. All bolts & studs. Deferral permissible.
B-G-1	B6.190	PUMPS-FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED	1 in. annular surface around each stud. Limited to Components. Selected per B-L-2. Deferral permissible.
B-G-1	B6.200	PUMPS-NUTS, BUSHINGS, AND WASHERS	Limited to Components. Selected per B-L-2. All nuts & washers. Bushings see Note 2. Deferral permissible
B-G-1	B6.210	VALVES-BOLTS AND STUDS	Limited to Components. Selected per B-M-2. All bolts & studs. Deferral permissible.
B-G-1	B6.220	VALVES-FLANGE SURFACE, WHEN CONNECTION DISASSEMBLED	1 in. annular surface around each stud. Limited to Components. Selected per B-M-2. Deferral permissible.
B-G-1	B6.230	VALVES-NUTS, BUSHINGS, AND WASHERS	Limited to Components. Selected per B-M-2. All nuts & washers. Bushings see Note 2. Deferral permissible

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING BOLTING 2 INCHES AND LESS IN DIAMETER			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-G-2	B7.10	REACTOR VESSEL-BOLTS, STUDS, AND NUTS	All bolts, studs and nuts. Deferral not permissible.
B-G-2	B7.20	PRESSURIZER-BOLTS, STUDS, AND NUTS	All bolts, studs and nuts. Deferral not permissible.
B-G-2	B7.30	STEAM GENERATORS-BOLTS, STUDS, AND NUTS	Limited to components examined per B-B: All bolts, studs and nuts. Deferral not permissible.
B-G-2	B7.40	HEAT EXCHANGERS-BOLTS, STUDS, AND NUTS	Limited to components examined per B-B. All bolts, studs and nuts. Deferral not permissible.
B-G-2	B7.50	PIPING-BOLTS, STUDS, AND NUTS	Limited to components examined per B-J. All bolts, studs and nuts. Deferral not permissible.
B-G-2	B7.60	PUMPS-BOLTS, STUDS, AND NUTS	Limited to components examined per B-L-2. All bolts, studs and nuts. Deferral not permissible.
B-G-2	B7.70	VALVES-BOLTS, STUDS, AND NUTS	Limited to components examined per B-M-2. All bolts, studs and nuts. Deferral not permissible.
B-G-2	B7.80	CRD HOUSINGS	Use 1995 Edition to perform VT-1 exams bolts, studs and nuts CRD housing when disassembled per 10CFR50.55a.

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING WELDS IN PIPING			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-J	B9.11	CIRCUMFERENTIAL PIPE WELDS \geq 4 IN. NOMINAL PIPE SIZE	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-J	B9.21	CIRCUMFERENTIAL PIPE WELDS $<$ 4 IN. NOMINAL PIPE SIZE	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-J	B9.31	BRANCH CONNECTION WELDS \geq 4 IN. NOMINAL PIPE SIZE	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-J	B9.32	BRANCH CONNECTION WELDS $<$ 4 IN. NOMINAL PIPE SIZE	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
B-J	B9.40	SOCKET WELDS	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION			
CODE EDITION: 1998 Edition, 2000 Addenda			
WELDED ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-K	B10.10	PRESSURE VESSELS - WELDED ATTACHMENTS	Use 1995 Edition to examine welded attachments on at-least 1 vessel in each group per 10CFR50.55a. Deferral not permissible.
B-K	B10.20	PIPING - WELDED ATTACHMENTS	Exams 10% of attachments associated .w/component supports selected under IWF-2510. Deferral not permissible.
B-K	B10.30	PUMPS - WELDED ATTACHMENTS	Examine 10% of attachments associated with component supports selected under IWF, Deferral not permissible
B-K	B10.40	VALVES - WELDED ATTACHMENTS	Exam 10% of attachments associated .w/component supports selected under IWF-2510. Deferral not permissible.

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING WELDS IN PUMP CASINGS			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-L-1	B12.10	PUMPS-PUMP CASING WELDS	Selection limited to 1 pump per group. Examine essentially 100% weld length. Deferral is permissible
PUMP CASINGS			
B-L-2	B12.20	PUMPS-PUMP CASINGS	Selection limited to 1 pump per group, only if disassembled for maintenance repair or volumetric exam.

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING WELDS IN VALVE BODIES			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-M-1	B12.30	VALVES-VALVE BODY WELDS < 4 INCHES NOMINAL PIPE SIZE	Selection limited to 1 valve per group. Examine essentially 100% weld length. Deferral permissible.
B-M-1	B12.40	VALVES-VALVE BODY WELDS ≥ 4 INCHES NOMINAL PIPE SIZE	Selection limited to 1 valve per group. Examine essentially 100% weld length. Deferral permissible.
VALVE BODIES			
B-M-2	B12.50	VALVES-VALVE BODIES EXCEEDING 4 INCHES NOMINAL PIPE SIZE	Selection limited to 1 valve per group, only if disassembled for maintenance repair or volumetric exam.

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
INTERIOR OF REACTOR VESSEL			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-N-1	B13.10	REACTOR VESSEL-VESSEL INTERIOR	Examine accessible areas (Note 1) once per inspection period. Deferral not permissible.
WELDED CORE SUPPORT STRUCTURES AND INTERIOR ATTACHMENTS TO REACTOR VESSELS			
B-N-2	B13.20	REACTOR VESSEL (BWR)-INTERIOR ATTACHMENTS WITHIN BELTLINE REGION	Not applicable to Salem, Unit 1.
B-N-2	B13.30	REACTOR VESSEL (BWR)-INTERIOR ATTACHMENTS BEYOND BELTLINE REGION	Not applicable to Salem, Unit 1.
B-N-2	B13.50	REACTOR VESSEL (PWR)-INTERIOR ATTACHMENTS WITHIN BELTLINE REGION	Accessible welds. Deferral is permissible.
B-N-2	B13.60	REACTOR VESSEL (PWR)-INTERIOR ATTACHMENTS BEYOND BELTLINE REGION	Accessible welds. Deferral is permissible.
REMOVABLE CORE SUPPORT STRUCTURES			
B-N-3	B13.40	REACTOR VESSEL (BWR)-CORE SUPPORT STRUCTURE	Not applicable to Salem, Unit 1.
B-N-3	B13.70	REACTOR VESSEL (PWR)-CORE SUPPORT STRUCTURE	Accessible surfaces. Structure shall be removed from RPV for examination. Deferral is permissible.

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING WELDS IN CONTROL ROD HOUSINGS			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-O	B14.10	REACTOR VESSEL-WELDS IN CONTROL ROD DRIVE HOUSINGS	Examine 10% of peripheral CRD housings. Deferral is permissible.

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda ALL PRESSURE RETAINING COMPONENTS			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-P	B15.10	REACTOR VESSEL-SYSTEM LEAKAGE TEST	Visual (VT-2) exam prior to plant startup following each refueling outage. Deferral not permissible.
B-P	B15.20	PRESSURIZER-SYSTEM LEAKAGE TEST	Visual (VT-2) exam prior to plant startup following each refueling outage. Deferral not permissible.
B-P	B15.30	STEAM GENERATORS-SYSTEM LEAKAGE TEST	Visual (VT-2) exam prior to plant startup following each refueling outage. Deferral not permissible.
B-P	B15.40	HEAT EXCHANGERS-SYSTEM LEAKAGE TEST	Visual (VT-2) exam prior to plant startup following each refueling outage. Deferral not permissible.
B-P	B15.50	PIPING-SYSTEM LEAKAGE TEST	Visual (VT-2) exam prior to plant startup following each refueling outage. Deferral not permissible.
B-P	B15.60	PUMPS-SYSTEM LEAKAGE TEST	Visual (VT-2) exam prior to plant startup following each refueling outage. Deferral not permissible.
B-P	B15.70	VALVES-SYSTEM LEAKAGE TEST	Visual (VT-2) exam prior to plant startup following each refueling outage. Deferral not permissible.

4.0 CLASS 1 EXAM CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
STEAM GENERATOR TUBING			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
B-Q	B16.10	STEAM GENERATOR TUBING IN STRAIGHT TUBE DESIGN	Not applicable to Salem, Unit 1.
B-Q	B16.20	STEAM GENERATOR TUBING IN U-TUBE DESIGN	Extent and frequency of examination governed by plant Technical Specifications.

5.0 CLASS 2 EXAMINATION CATEGORIES

Included in this section are the requirements for the Class 2 examination categories in accordance with Section XI.

The examination categories are used for organization purposes and documentation of selection basis for the preparation of the Salem Generating Station Unit 2 Third 10-Year Inspection Interval Inservice Inspection Program Plan.

The following tables identify Class 2 Exam Categories and their descriptions for the items listed below:

The following Exam Category tables may reference "notes". The notes referred to correspond with those notes located within ASME XI Table IWX-2500-1. Individuals should refer to the corresponding ASME Category ASME XI Table IWX-2500-1 notes to obtain desired information.

EXAM CATEGORY	DESCRIPTION
C-A	Pressure Retaining Welds in Pressure Vessels
C-B	Pressure Retaining Nozzle Welds in Vessels
C-C	Welded Attachments for Class 2 Vessels, Piping, Pumps and Valves
C-D	Pressure Retaining Bolting Greater than 2 inches in Diameter
C-F-1*	Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping
C-F-2*	Pressure Retaining Welds in Carbon Steel or Low Alloy Steel Piping
C-G	Pressure Retaining Welds in Pumps and Valves
C-H	All Pressure Retaining Components

* Examination Categories C-F-1 and C-F-2 are no longer applicable. See Examination Category R-A in Section 17.0.

The listing and schedule of components subject to examination during the third ten-year inspection interval are located in Appendix F.

5.0 CLASS 2 EXAMINATION CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING WELDS IN PRESSURE VESSELS			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
C-A	C1.10	SHELL CIRCUMFERENTIAL WELDS	Welds at gross structural discontinuity only. Limit to 1 vessel among similar vessels. Each interval
C-A	C1.20	HEAD CIRCUMFERENTIAL WELDS	Head to shell weld. Limit to 1 vessel among similar vessels. Each interval.
C-A	C1.30	TUBESHEET-TO-SHELL WELDS	Tubesheet-to-shell weld. Limit to 1 vessel among similar vessels. Each interval.

5.0 CLASS 2 EXAMINATION CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING NOZZLE WELDS IN PRESSURE VESSELS			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
C-B	C2.11	NOZZLE-TO-SHELL (OR HEAD) WELD \leq 1/2 IN. NOMINAL THICKNESS	All nozzles at Terminal Ends of piping runs selected for exam under C-F. Limited to 1 amongst similar vessels.
C-B	C2.21	NOZZLE-TO-SHELL (OR HEAD) WELD $>$ 1/2 IN. NOMINAL THICKNESS WITHOUT REINFORCING PLATE	All nozzles at Terminal Ends of piping runs selected for exam under C-F. Limited to 1 amongst similar vessels.
C-B	C2.22	NOZZLE INSIDE RADIUS SECTION $>$ 1/2 IN. NOMINAL THICKNESS WITHOUT REINFORCING PLATE	All nozzles at Terminal Ends of piping runs selected for exam under C-F. Limited to 1 amongst similar vessels.
C-B	C2.31	REINFORCING PLATE WELDS TO NOZZLE AND VESSEL $>$ 1/2 IN. NOMINAL THICKNESS	All nozzles at Terminal Ends of piping runs selected for exam under C-F. Limited to 1 amongst similar vessels.
C-B	C2.32	NOZZLE-TO-SHELL (OR HEAD) WELDS WHEN INSIDE OF VESSEL IS ACCESSIBLE $>$ 1/2 IN. NOMINAL THICKNESS	All nozzles at Terminal Ends of piping runs selected for exam under C-F. Limited to 1 amongst similar vessels.
C-B	C2.33	NOZZLE-TO-SHELL (OR HEAD) WELDS WHEN INSIDE OF WELD IS INACCESSIBLE $>$ 1/2 IN. NOMINAL THICKNESS	All nozzles at Terminal Ends of piping selected for exam under C-F. Limited to 1 amongst similar vessels. + Note 5.

5.0 CLASS 2 EXAMINATION CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
INTEGRAL ATTACHMENTS FOR CLASS 2 VESSELS, PIPING, PUMPS, AND VALVES			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
C-C	C3.10	PRESSURE VESSELS - INTEGRALLY WELDED ATTACHMENTS	Examine 100% subject to Notes 1, 2, 3, 4, & 6.
C-C	C3.20	PIPING - INTEGRALLY WELDED ATTACHMENTS	Examine 10% subject to Notes 1, 2, 3, 5, & 6.
C-C	C3.30	PUMPS - INTEGRALLY WELDED ATTACHMENTS	Examine 10% subject to Notes 1, 2, 3, 5, & 6.
C-C	C3.40	VALVES - INTEGRALLY WELDED ATTACHMENTS	Examine 10% subject to Notes 1, 2, 3, 5, & 6.

5.0 CLASS 2 EXAMINATION CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING BOLTING GREATER THAN 2 INCHES IN DIAMETER			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
C-D	C4.10	PRESSURE VESSELS-BOLTS AND STUDS	Examine 100% of bolts & studs on one of similar vessels subject to notes 1, 2, & 4.
C-D	C4.20	PIPING-BOLTS AND STUDS	Examine 100% of bolts & studs on pipe runs selected for exam under C-F subject to notes 1, 3, & 4.
C-D	C4.30	PUMPS-BOLTS AND STUDS	Examine 100% of bolts & studs on one of similar pumps subject to notes 1, 2, & 4.
C-D	C4.40	VALVES-BOLTS AND STUDS	Examine 100% of bolts & studs on one of similar valves subject to notes 1, 2, & 4.

5.0 CLASS 2 EXAMINATION CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING WELDS IN AUSTENITIC S/S OR HIGH ALLOY PIPING			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
C-F-1	C5.11	PIPING WELDS $\geq 3/8$ IN. NOMINAL WALL THK. FOR PIPING > NPS 4, CIRCUMFERENTIAL PIPE WELDS	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
C-F-1	C5.21	PIPING WELDS $\geq 1/5$ IN. NOMINAL WALL THK. FOR PIPING \geq NPS 2 & \leq NPS 4, CIRCUMFERENTIAL PIPE WELDS	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
C-F-1	C5.30	SOCKET WELDS	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
C-F-1	C5.41	PIPE BRANCH CONNECTIONS OF BRANCH PIPING \geq NPS 2, CIRCUMFERENTIAL WELD	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
C-F-1	A-E<3/8	PIPING WELDS THAT ARE NOT EXEMPTED, HOWEVER DO NOT HAVE AN ASSOCIATED ITEM NO.	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.

5.0 CLASS 2 EXAMINATION CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING WELDS IN C/S OR LOW ALLOY STEEL PIPING			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
C-F-2	C5.51	PIPING WELDS $\geq 3/8$ IN. NOMINAL WALL THK. FOR PIPING > NPS 4, CIRCUMFERENTIAL WELD	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
C-F-2	C5.61	PIPING WELDS $\geq 1/5$ IN. NOMINAL WALL THK. FOR PIPING \geq NPS 2 & \leq NPS 4, CIRCUMFERENTIAL WELD	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
C-F-2	C5.81	PIPE BRANCH CONNECTIONS OF BRANCH PIPING \geq NPS 2, CIRCUMFERENTIAL WELD	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
C-F-2	C5.70	SOCKET WELDS	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.
C-F-2	A-E $<3/8$	PIPING WELDS THAT ARE NOT EXEMPTED, HOWEVER DO NOT HAVE AN ASSOCIATED ITEM NO.	Examination Category no longer applicable. See Examination Category R-A in Section 17.0.

5.0 CLASS 2 EXAMINATION CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
PRESSURE RETAINING WELDS IN PUMPS AND VALVES			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
C-G	C6.10	PUMPS-PUMP CASING WELDS	Examine only one of multiple pumps. Notes 1, 2, & 3 apply. Each Interval.
C-G	C6.20	VALVES-VALVE BODY WELDS	Examine only one of multiple valves. Notes 1, 2, & 3 apply. Each Interval.

5.0 CLASS 2 EXAMINATION CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
ALL PRESSURE RETAINING COMPONENTS			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
C-H	C7.10	PRESSURE VESSELS-SYSTEM PRESSURE TEST	VT-2 Exam per IWA-5240. Each Inspection Period.
C-H	C7.30	PIPING-SYSTEM PRESSURE TEST	VT-2 Exam per IWA-5240. Each Inspection Period.
C-H	C7.50	PUMPS-SYSTEM PRESSURE TEST	VT-2 Exam per IWA-5240. Each Inspection Period.
C-H	C7.70	VALVES-SYSTEM PRESSURE TEST	VT-2 Exam per IWA-5240. Each Inspection Period.

6.0 CLASS 3 EXAMINATION CATEGORIES

Included in this section are the requirements for the Class 3 examination categories in accordance with Section XI.

The examination categories are used for organization purposes and documentation of selection basis for the preparation of the Salem Generating Station Unit 2 Third 10-Year Inspection Interval Inservice Inspection Program Plan.

The following tables identify Class 3 Exam Categories and their descriptions for the items listed below:

The following Exam Category tables may reference "notes". The notes referred to correspond with those notes located within ASME XI Table IWX-2500-1. Individuals should refer to the corresponding ASME Category ASME XI Table IWX-2500-1 notes to obtain desired information

EXAM CATEGORY	DESCRIPTION
D-A	Welded Attachments for Vessels, Piping, Pumps and Valves
D-B	All pressure retaining Components

The listing and schedule of components subject to examination during the third ten-year inspection interval are located in Appendix F.

6.0 CLASS 3 EXAMINATION CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
WELDED ATTACHMENTS FOR CLASS 3 VESSELS, PIPING, PUMPS AND VALVES			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
D-A	D1.10	PRESSURE VESSELS -WELDED ATTACHMENTS	VT-1 100% each attachment once each Interval & each occurrence per Notes 1, 2, 3, & 4.
D-A	D1.20	PIPING -WELDED ATTACHMENTS	VT-1 10% piping attachments once each Interval & each occurrence per Notes 1, 2, 3, & 4.
D-A	D1.30	PUMPS- WELDED ATTACHMENTS	VT-1 100% each attachment once each Interval & each occurrence per Notes 1, 2, 3, & 4.
D-A	D1.40	VALVES - WELDED ATTACHMENTS	VT-1 100% each attachment once each Interval & each occurrence per Notes 1, 2, 3, & 4.

6.0 CLASS 3 EXAMINATION CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
ALL PRESSURE RETAINING COMPONENTS			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
D-B	D2.10	SYSTEM LEAKAGE TEST – PRESSURE RETAINING COMPONENTS	VT-2 exam each period.
D-B	D2.20	SYSTEM HYDROSTATIC TEST – PRESSURE RETAINING COMPONENTS	VT-2 exam at or near end of interval per Note 1.

7.0 CLASS 1, 2, AND 3 COMPONENT SUPPORT CATEGORIES

Included in this section are the examination requirements for Inservice Inspection of Class 1, 2, and 3 component supports. Component supports are defined in IWA-9000 as a metal support designed to transmit loads from a component to the load-carrying building or foundation structure. Component supports include piping supports and encompass those structural elements relied upon to either support the weight or provide structural stability to components.

The component supports selected for examination are the supports of non-exempt, Class 1, 2, and 3 systems required to be examined under IWB, IWC, and IWD during the inspection interval.

Inservice testing of mechanical and hydraulic snubbers will be performed under the provisions listed in the Salem Nuclear Generating Station Unit 2 Technical Specifications as identified on Relief Request # S2-I3-RR-F01 Section 12 of this program plan.

The examination method for the component supports is designated as VT-3 (visual examination).

The VT-3 visual examination consists of a determination of general mechanical and structural conditions as well as verification of clearances, settings and physical displacement(s) and also to include examinations for conditions that could affect operability or functional adequacy etc. (Ref. ASME Section XI, IWA-2213).

The following tables identify the class IWF Code Examination Category and respective item number and their corresponding descriptions:

The following Exam Category tables may reference "notes". The notes referred to correspond with those notes located within ASME XI Table IWX-2500-1. Individuals should refer to the corresponding ASME Category ASME XI Table IWX-2500-1 notes to obtain desired information

Examination Category	DESCRIPTION
F-A	Supports

The listing and schedule of the component supports subject to examination are listed in Appendix H.

7.0 CLASS 1, 2, AND 3 COMPONENT SUPPORT CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
SUPPORTS			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
F-A	F1.10-A	CLASS 1 PIPING SUPPORTS - ANCHORS	Examine 25% of Class 1 supports.
F-A	F1.20-A	CLASS 2 PIPING SUPPORTS - ANCHORS	Examine 15% of Class 2 supports.
F-A	F1.30-A	CLASS 3 PIPING SUPPORTS - ANCHORS	Examine 10% of Class 3 supports.
F-A	A/E<3/8	CLASS 2 SUPTS W/ PIPING WELDS < OR = TO 3/8" NOM. WALL	
F-A	F1.10-E	CLASS 1 PIPING SUPPORTS - STRUTS	Examine 25% of Class 1 supports.
F-A	F1.10-G	CLASS 1 PIPING SUPPORTS - RESTRAINTS	Examine 25% of Class 1 supports.
F-A	F1.10-H	CLASS 1 PIPING SUPPORTS - CONST. SUPPORTS (CONS)	Examine 25% of Class 1 supports.
F-A	F1.10-I	CLASS 1 PIPING SUPPORTS - VAR. SUPPORTS (VAR)	Examine 25% of Class 1 supports.
F-A	F1.10-J	CLASS 1 PIPING SUPPORTS - VALVE SUPPORTS	Examine 25% of Class 1 supports.
F-A	F1.10-K	CLASS 1 PIPING SUPPORTS - PUMP, TANK, HX OR SLIDING SUPPORTS	Examine 25% of Class 1 supports.
F-A	F1.10-L	CLASS 1 PIPING SUPPORTS - HANGERS	Examine 25% of Class 1 supports.
F-A	F1.10-M	CLASS 1 PIPING SUPPORTS - SUPPORTS	Examine 25% of Class 1 supports.
F-A	F1.10-N	CLASS 1 PIPING SUPPORTS - GUIDES	Examine 25% of Class 1 supports.
F-A	F1.10-O	CLASS 1 PIPING SUPPORTS - VIBRATION DAMPERS	Examine 25% of Class 1 supports.

7.0 CLASS 1, 2, AND 3 COMPONENT SUPPORT CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
SUPPORTS (cont'd)			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
F-A	F1.20-E	CLASS 2 PIPING SUPPORTS - STRUTS	Examine 15% of Class 2 supports.
F-A	F1.20-G	CLASS 2 PIPING SUPPORTS - RESTRAINTS	Examine 15% of Class 2 supports.
F-A	F1.20-H	CLASS 2 PIPING SUPPORTS - CONST. SUPPORTS (CONS)	Examine 15% of Class 2 supports.
F-A	F1.20-I	CLASS 2 PIPING SUPPORTS - VAR. SUPPORTS (VAR)	Examine 15% of Class 2 supports.
F-A	F1.20-J	CLASS 2 PIPING SUPPORTS - VALVE RESTRAINTS	Examine 15% of Class 2 supports.
F-A	F1.20-K	CLASS 2 PIPING SUPPORTS - PUMP, TANK, HX OR SLIDING SUPPORTS	Examine 15% of Class 2 supports.
F-A	F1.20-L	CLASS 2 PIPING SUPPORTS - HANGERS	Examine 15% of Class 2 supports.
F-A	F1.20-M	CLASS 2 PIPING SUPPORTS - SUPPORTS	Examine 15% of Class 2 supports.
F-A	F1.20-N	CLASS 2 PIPING SUPPORTS - GUIDES	Examine 15% of Class 2 supports.
F-A	F1.20-O	CLASS 2 PIPING SUPPORTS - VIBRATION DAMPERS	Examine 15% of Class 2 supports.
F-A	F1.30-E	CLASS 3 PIPING SUPPORTS - STRUTS	Examine 10% of Class 3 supports.
F-A	F1.30-G	CLASS 3 PIPING SUPPORTS - RESTRAINTS	Examine 10% of Class 3 supports.
F-A	F1.30-H	CLASS 3 PIPING SUPPORTS - CONST. SUPPORTS (CONS)	Examine 10% of Class 3 supports.
F-A	F1.30-I	CLASS 3 PIPING SUPPORTS - VAR. SUPPORTS (VAR)	Examine 10% of Class 3 supports.
F-A	F1.30-J	CLASS 3 PIPING SUPPORTS - VALVE RESTRAINTS	Examine 10% of Class 3 supports.
F-A	F1.30-K	CLASS 3 PIPING SUPPORTS - PUMP, TANK, HX OR SLIDING SUPPORTS	Examine 10% of Class 3 supports.
F-A	F1.30-L	CLASS 3 PIPING SUPPORTS - HANGERS	Examine 10% of Class 3 supports.
F-A	F1.30-M	CLASS 3 PIPING SUPPORTS - SUPPORTS	Examine 10% of Class 3 supports.
F-A	F1.30-N	CLASS 3 PIPING SUPPORTS - GUIDES	Examine 10% of Class 3 supports.
F-A	F1.30-O	CLASS 3 PIPING SUPPORTS - VIBRATION DAMPERS	Examine 10% of Class 3 supports.

7.0 CLASS 1, 2, AND 3 COMPONENT SUPPORT CATEGORIES

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION CODE EDITION: 1998 Edition, 2000 Addenda			
SUPPORTS (cont'd)			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
F-A	F1.40-A	SUPPORTS OTHER THAN PIPING SUPPORTS (CLASS 1, 2, and 3) - ANCHORS	Examine 100% of the supports subject to multiple component criteria of Note 3.
F-A	F1.40-E	SUPPORTS OTHER THAN PIPING SUPPORTS (CLASS 1, 2, and 3) - STRUTS	Examine 100% of the supports subject to multiple component criteria of Note 3.
F-A	F1.40-G	SUPPORTS OTHER THAN PIPING SUPPORTS (CLASS 1, 2, and 3) - RESTRAINTS	Examine 100% of the supports subject to multiple component criteria of Note 3.
F-A	F1.40-H	SUPPORTS OTHER THAN PIPING SUPPORTS (CLASS 1, 2, and 3) - CONST. SUPPORTS (CONS)	Examine 100% of the supports subject to multiple component criteria of Note 3.
F-A	F1.40-I	SUPPORTS OTHER THAN PIPING SUPPORTS (CLASS 1, 2, and 3) - VAR. SUPPORTS (VAR)	Examine 100% of the supports subject to multiple component criteria of Note 3.
F-A	F1.40-J	SUPPORTS OTHER THAN PIPING SUPPORTS (CLASS 1, 2, and 3) - VALVE RESTRAINTS	Examine 100% of the supports subject to multiple component criteria of Note 3.
F-A	F1.40-K	SUPPORTS OTHER THAN PIPING SUPPORTS (CLASS 1, 2, and 3) - PUMP, TANK, HX OR SLIDING SUPPORTS	Examine 100% of the supports subject to multiple component criteria of Note 3.
F-A	F1.40-L	SUPPORTS OTHER THAN PIPING SUPPORTS (CLASS 1, 2, and 3) - HANGERS	Examine 100% of the supports subject to multiple component criteria of Note 3.
F-A	F1.40-M	SUPPORTS OTHER THAN PIPING SUPPORTS (CLASS 1, 2, and 3) - SUPPORTS	Examine 100% of the supports subject to multiple component criteria of Note 3.
F-A	F1.40-N	SUPPORTS OTHER THAN PIPING SUPPORTS (CLASS 1, 2, and 3) - GUIDES	Examine 100% of the supports subject to multiple component criteria of Note 3.
F-A	F1.40-O	SUPPORTS OTHER THAN PIPING SUPPORTS (CLASS 1, 2, and 3) - VIBRATION DAMPERS	Examine 100% of the supports subject to multiple component criteria of Note 3.

8.0 AUGMENTED EXAMINATION CRITERIA

ISI Group administrative procedure SC.RA-AP-0021 (Q), ISI Group Examination Activities, describe and control examination and test activities that require implementation IAW the Salem Units Technical Specifications and other regulatory and internal commitments assigned to the ISI Group.

The augmented examinations in Table 8-1 & 8-2, have been incorporated into the Inservice Inspection Program - Long Term Plan by addition of the requirements into the appropriate Component Examination Table (attachments) delineating the component no., examination method, current schedule and the extent of examination.

Augmented examinations are divided into two (2) categories:

- Regulatory Commitments (Section 8.1)
- Internal Commitments (Section 8.2)

8.1 Regulatory Commitments (Listed in Table 8-1)

These are augmented examinations that meet all the following criteria:

- Examination is on a Nuclear Class 1, 2, and 3 components.

AND

- Examination requirement is above the requirement of IWB, IWC, IWD, or IWF with regard to exam frequency, exam method, or requires the selection of the component for examination when Code doesn't.

AND

- The examination is a commitment by direct response to the NRC in either a UFSAR statement, correspondence, UFSAR Question Response, SER Open Item Response, License Condition Response, response to a NRC Bulletin or Generic Letter.

Any subsequent revisions to the regulatory commitment augmented examination requirements that follow must first be made in the response to the NRC document and/or a Safety Evaluation is to be performed in accordance with 10CFR50.59 prior to revision of this program.

8.0 AUGMENTED EXAMINATION CRITERIA

8.2 Internal Commitments (Listed in Table 8-2)

These are augmented examinations that meet all the following criteria:

- Examination is on a Nuclear Class 1, 2, and 3 components.

AND

- Examination requirement is above the requirement of IWB, IWC, IWD, or IWF, with regard to exam frequency, exam method, or requires the selection of the component for examination when Code doesn't.

AND

- The examination is a commitment made internally in response to an NRC Information Notice, INPO SOER, WOG, Engineering Department request, or other source document.

Any revisions to the internal commitment augmented examination requirements that follow, must first be made in the commitment response to the source document prior to the revision of this program.

8.0 AUGMENTED EXAMINATION CRITERIA

Table 8-1

<u>Regulatory Commitments</u>			
#	SUBJECT	BASIS	COMMENTS
1	UFSAR Appendix 3 NRC Regulatory Guide 1.14	Reactor Coolant Pump Flywheel NRC Regulatory Guide 1.14 Rev.1, August 1975	This requirement is part of Technical Specifications 4.4.10.1.1. <ul style="list-style-type: none"> In-place ultrasonic examination of the higher stress concentration areas at the bore and keyway at approximately 3 year intervals during the refueling or maintenance outage coinciding with the inservice inspection schedule. Surface examination of all exposed surfaces and complete ultrasonic examination at approximately 10-year intervals during the refueling or maintenance outage coinciding with the inservice inspection schedule.
2	UFSAR Section 3.6 Branch Technical Position MEB 3-1 <i>High Energy Fluid Systems, Protection Against Postulated Piping Failures in Fluid Systems Outside Containment</i>	NRC Generic Letter 87-11 Relaxation in Arbitrary Intermediate Pipe Rupture Requirements NUREG-0800 Standard Review Plan Section 3.6.3	Requires applicable piping welds receive volumetric examination. Selected components are scheduled within the ISI LTP as an augmented examination and shall be examined at least once every ten years. This has been addressed as part of the RI-BER exam effort. Reference completed 50.59 evaluations.
3	VT -2 Examinations NUREG- 0578	NUREG- 0578 TMI Lessons Learned	PSEG committed to perform VT-2 examination to reduce potential and existing leakage paths from systems outside containment that would or could contain radioactive fluids during a serious transient or accident for the RHR, Safety Injection, Containment Spray, CVC, Waste Gas, Waste Liquid and Sampling Systems.
4	Calibration Block Control	CO478	In response to an audit finding obtained from Factory Mutual, PSEG Nuclear committed to control and inventory calibration blocks.
5	Reactor Pressure Vessel Head Penetrations	NRC Bulletin 2001-1	Perform VT-2 exam of Reactor Pressure Vessel Closure Head Penetrations to detect evidence of boric acid corrosion due to leakage.
6	NRC GL 88-05	Boric Acid Corrosion	PSEG committed to perform visual examinations of systems containing borated to identify leakage sources and corrosive boric acid deposits. Reference Boric Acid Corrosion Management Program Long Term Plan.

8.0 AUGMENTED EXAMINATION CRITERIA

TABLE 8-2

<u>Internal Commitments</u>			
#	SUBJECT	BASIS	COMMENTS
1	980810184	Response to QA Audit Finding	Perform an independent review of ISI Program manual revisions.
2	970919211	HC Core Spray Nozzle N5B Thru-Wall Leak	Perform an independent review of Automated UT examination results.
3	Westinghouse Recommendation	Reactor Coolant Pump Bolting Connections	Perform VT-2 every refueling outage of reactor coolant pump bolting connections.
4	Westinghouse Recommendation (IVVI-300 & 405)	Baffle Panel Bolts and Irradiated Specimen Baskets	Perform IVVI of Baffle Panel Bolts and Irradiated Specimen Baskets
5	RPV Nozzle to Safe-end Welds (IVVI-608...)	PSEG Nuclear Self Imposed due to VC Summer Industry Concerns	Perform remote visual exam (VT-1) of Salem's RPV Nozzle to Safe-end and Safe-end to Pipe welds when Mechanized Exams are performed upon the RPV Nozzles and IVVI Ten-Year Visual Inspections are completed.
6	PWSCC Locations	PSEG Nuclear Self Imposed due to VC Summer Industry Concerns	Perform UT exams of Salem Alloy 600, 82/182 piping welds that are susceptible to PWSCC. This requirement also fulfills Boric Acid Corrosion Management Program requirements.

9.0 SYSTEM PRESSURE TESTING CRITERIA

This section identifies the criteria for pressure testing systems subject to visual examination (VT-2) requirements of Section XI.

Systems and components within the prescribed boundaries are VT-2 tested in accordance with the requirements of IWA-5000 of Section XI and Code Cases N-498-4 for Class 3 systems and N-533-1 and Relief Request S2-I3-RRA06 (Code Case N-566-2).

Pressure tests are conducted at the peak-calculated pressure that permits detection and location of through wall leakage in containment isolation valves (CIVs) and pipe segments between CIVs.

Pressure testing and examinations are conducted in conjunction with the following operations:

Leakage testing is conducted following opening and re-closing of components in the system after pressurization to normal system operations. The system test pressure and temperature shall be attained at a rate in accordance with the heat-up limitations specified for the system.

Pneumatic testing maybe conducted in lieu of a pressure test for components within the scope of Class 2 and 3 requirements.

The listing and schedule of components subject to examination during the third ten-year Inspection Interval are located in Appendix R.

10.0 EXAMINATION SCHEDULING CRITERIA

Scheduling of nondestructive and visual examinations for the ISI program is based upon the percentage requirements of Section XI, Inspection Program-B as detailed in Table 2412-1 in Sections IWB, IWC, IWD, IWE, and IWF.

The beginning of the First 10 Year Inspection Interval for Salem Nuclear Generating Station Unit 2 started October 13, 1981 with the issuance of the Operating License and ended May 10, 1992 (2R06).

The beginning of the Second 10 Year Inspection Interval commenced on May 10, 1992 and ended approximately November 23, 2003 (Completion of 2R13). This interval excludes 26 Months and 21 Days (6/8/95 - 8/29/97) for an extended shutdown, and less 7 Months and 16 days (approximately) to coincide with end of the refueling outage per IWA-2430 (d) [1986]. The cumulative decrease per IWA-2430 (d)(1) [98A2000] is approx. 2 months 11 days.

The duration of the Third inspection interval is approximately 10 years, following the completion of the Second 10 Year Inspection Interval that concluded approximately November 23, 2003. The conclusion of the Third inspection interval is tentatively scheduled for November 23, 2013. The inspection interval is divided into periods as described below. Examinations for the 10 Year Interval are scheduled in accordance with Inspection Program B, as described in IWA-2400, IWB-2400, IWC-2400, IWD-2400 and IWF-2400 as follows:

First Period - First 3 Calendar Years of the 3rd Inspection Interval

Second Period - Next 4 Calendar Years of the 3rd Inspection Interval

Third Period - Next 3 Calendar Years of the 3rd Inspection Interval

The examinations are scheduled to coincide with the plant's refueling outages (RFO). A standard RFO is tentatively scheduled to occur at the end of a fuel cycle that is approximately 18 months in length.

With a RFO scheduled at 18-month intervals and duration of approximately 30-45 days (estimated for scheduling only), six refueling outages are expected to occur during the third inspection interval. The ISI program divides the examinations into the six outages in order to calculate percentage requirements.

ASME Section XI permits some component examinations to be deferred until the end of the inspection interval. Other component examinations are scheduled to meet the Category percentage requirements as follows:

10.0 EXAMINATION SCHEDULING CRITERIA

1st Period	16% minimum examinations completed with credit taken for no more than 50%
2nd Period	50% minimum examinations completed with credit taken for no more than 75% (these are cumulative percentages).
3rd Period	100% of the ISI program examinations shall be completed by the end of this period.

10.0 EXAMINATION SCHEDULING CRITERIA

Salem Unit 2 Third Inservice Inspection Interval Tentative Outage Schedule

<u>Interval Dates</u>	<u>Inspection Period</u>			<u>IDDEAL Designation</u>	<u>Refueling Outage</u>		
	<u>Number</u>	<u>Dates</u>	<u>Duration (Yrs.)</u>		<u>Number</u>	<u>Estimated Outage Dates</u>	<u>Duration (Days)</u>
11/23/2003 - 11/23/2013	First	11/23/2003	3	3-1-1	2R14	4/2/05	31
		11/03/2006				-	
	Second	11/23/2006 - 11/03/2010	4	3-1-2	2R15	4/29/05 10/6/06	28
						-	
				3-2-1	2R16	11/27/06 4/5/08	28
						-	
	Third	11/23/2010 - 11/04/2013	3	3-2-2	2R17	5/2/08 10/3/09	31
						-	
				3-3-1	2R18	11/2/09 4/5/11	28
						-	
				3-3-2	2R19	5/2/11 10/6/12	28
						- 11/27/12	

Notes:

First 10-Year Inspection Interval: Start 07/11/1977 (Operating License Issue Date) - End 02/27/1988.

- Includes 7 Mo.-27 Days to coincide with end of refueling outage per IWA-2400 [74S75].

Second 10-Year Inspection Interval: Start 5/10/1992 – End 11/23/2003

- Includes 26 Mo.-21 Days (6/8/95 – 8/29/97) for extended shutdown, and less 1 Mo.-21 Days (Approx.) to coincide with end of refueling outage per IWA-2400(c) [86].

Cumulative interval extension per IWA-2430 (d)(1) [98, A00] is approx. 2 months.

11.0 INSERVICE INSPECTION DRAWINGS

Included in this section is a listing of the drawings of systems and components subject to examination inspection and testing in the Salem Nuclear Generating Station Unit 2 inservice Inspection Program.

- 11.1 Classification of systems for Class 1, 2 and 3 boundaries are documented on ISI Boundary Diagrams as provided in Appendix B.

The Salem Generating Station Unit 2 classification boundaries were generated from the requirements and provisions established by 10CFR, Part 50; the Salem updated FSAR, and piping and component design specifications. These drawings were developed as separate layers of Piping and Instrumentation Drawings (P&ID's).

Appendix B shows the Section XI boundary (annotated as VT2) subject to visual examination of the pressure boundary during system pressure tests in accordance with this ISI Long Term Plan.

Appendix B also shows that portion of the Section XI piping system and components (annotated as NDE) subject to surface examination, volumetric examination, and/or visual examination (VT-1, VT-2 or VT-3) in accordance with this plan.

- 11.2 Inservice inspection figures provide simplified sketches to depict general weld, component and support locations. Each weld and component is identified with a unique identification number. These figures are not intended to take the place of approved construction P&ID and isometric drawings.

Inservice Inspection Figures applicable to this submittal are provided in Appendix C as follows:

Tab 1	Class 1 (A Series) Drawings
Tab 2	Class 2 (B Series) Drawings
Tab 3	Class 3 Drawing Cross Reference Matrix
Tab 4	In-vessel Visual Inspection Drawings
Tab 5	Construction Isometric Drawings

12.0 RELIEF REQUESTS

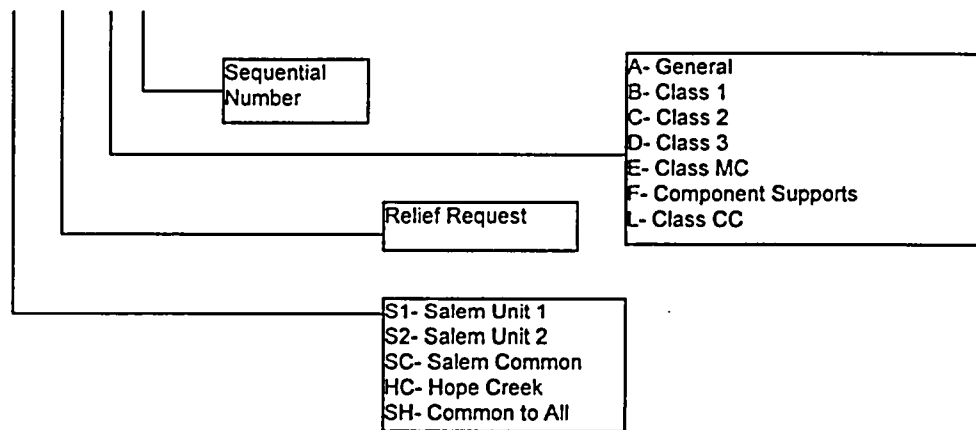
Relief requests are included where specific requirements of Section XI are determined to be impractical. Individual relief requests are included in Section 12.2. Section 12.2 is subject to change throughout the inspection interval, as examination requirements at Salem Nuclear Generating Station Unit 2 are determined to be impractical. Additional, or modifications to existing relief requests will be submitted for NRC approval in accordance with 10CFR50.55a paragraphs (a)(3)(i) and (a)(3)(ii).

In cases where parts of the required examination areas cannot be effectively examined, because of a combination of component design or current examination technique limitations, PSEG Nuclear will continue to evaluate the development of new or improved examination techniques, with the intent of applying these techniques where an improvement in the examination can be achieved (Ref. IWA-2240).

12.1 Relief Request Format

Relief request will be in accordance with NEI and NRC established guidelines. Each relief request will include the following:

Ex. S2-RR-A01



12.0 RELIEF REQUESTS

Relief for Requests will be prepared in a manner to assure the following attributes are addressed, as necessary:

ASME Code Component(s) Affected	Basis of Alternative for Providing Acceptable Level of Quality and Safety	Applicable Code Edition and Addenda
Applicable Code Requirement	Proposed Alternative	Duration of Proposed Alternative
Precedents	References	

12.2 Relief Request Status List

Copies of actual, submitted and approved Relief Requests are contained within the Salem and Hope Creek Station ISI Program Plan Relief Request Volume.

13.0 NONDESTRUCTIVE EXAMINATION

Subarticle IWA-1400 of Section XI requires the development and preparation of written examination procedures necessary for the conduct of nondestructive examinations associated with inservice inspection activities. Written procedures used to perform visual, surface, and volumetric examinations may be either PSEG Nuclear or those of an outside NDE agency that have been reviewed and approved by PSEG Nuclear prior to implementation or use.

Methods, techniques, and procedures for, inservice inspection are titled visual, surface, and volumetric. Each term describes a general method permitting a selection of different techniques and procedures restricted to that method to accommodate varying degrees of materials, accessibility, and radiation levels.

13.1 Volumetric Examinations

- Radiographic Examinations – Radiographic examinations will be conducted in accordance with Article 2 of ASME Section V.
- Eddy Current Examinations – Eddy Current examinations will be conducted in accordance with Appendix IV of ASME Section XI and Article 8, Appendix II of ASME Section V.
- Ultrasonic Examinations – Ultrasonic Examinations (UT) of ASME Section XI pressure boundary components will be conducted to in accordance with ASME Section XI, Appendix I requirements.

13.2 Surface Examinations

- Liquid Penetrant Examinations – Liquid penetrant examinations will be conducted in accordance with the requirements of Article 6 of Section V of the ASME Code.
- Magnetic Particle Examinations – Magnetic particle examinations will be conducted in accordance with the requirements of Article 7 of Section V of the ASME Code.

13.3 Visual Examinations

Visual (VT- 1, VT-2, and VT-3) examinations will be conducted in accordance with the requirements of Article 9 of Section V and ASME Section XI paragraph IWA-22 10 .

13.0 NONDESTRUCTIVE EXAMINATION

13.4 Qualification of Nondestructive Examination Personnel

Personnel performing examinations will be qualified and certified in accordance with procedures approved by PSEG Nuclear.

14.0 NDE CALIBRATION STANDARDS

Calibration reflectors exist per the requirements of ASME 1998 Edition up through and including 2000 Addenda Section XI Appendix I. As an alternative other calibration block designs may be used as applicable per the provisions of Appendix I Supplement 4, T-435 Article 4 of Section V or IWA-2240.

The following calibration block list identifies the calibration blocks applicable to Salem Unit 2. This does not preclude the use of alternative calibration blocks that may be utilized or blocks borrowed from Hope Creek Generating Station or other facilities that may be used for certain special circumstances.

The calibration block drawings for the items listed are contained in this section.

14.0 NDE CALIBRATION STANDARDS

<u>Ultrasonic Testing</u> <u>Calibration Block Number</u>	<u>Drawing Number</u>
12-SS-160-1.283-21-SAM	C-3052-021 B
10-SS-160-1.119-22-SAM	C-3052-022 C
8-SS-XX-.860-23-SAM	C-3052-023 A
8-SS-10-.140-24-SAM	C-3052-025 A
6-SS-160-.764-25-SAM	C-3052-034 A
6-SS-40-.287-26-SAM	C-3052-057 A
4-SS-XXS-.689-27-SAM	C-3052-040 C
4-SS-160-.553-28-SAM R	C-3052-601 A
3-SS-160-.451-30-SAM	C-3052-030 A
12-SS-40-.377-31-SAM	C-3052-056 A
8-SS-80-.484-32-SAM	C-0352-032 A
8-SS-20-.268-33-SAM	C-3052-026
16-CS-160-1.610-34-SAM	C-3052-042 B
14-CS-80-.760-35-SAM	C-3052-038 B
14-CS-120-1.14-36-SAM	C-3052-037 C
2.312-SS-37-SAM	C-3052-039 B
2-SS-160-.330-39-SAM	C-3052-048 A
5-CSCL-42-SAM	C-3052-058 C
3-SS-XX-.600-43-SAM	C-3052-041
8-SS-40-.330-44-SAM	C-3052-055
6-SS-10-.140-45-SAM	C-3052-054 A
8-CS-160-.906-46-SAM	C-3052-060 B
32-CS-XX-1.618-47-SAM	C-3052-029 A
3-CS-80-.432-49-SAM	C-3052-061 B
7-CSCL-50-SAM	C-3052-069 A
PL-3-CS-51-SAM	C-3052-059 A
11-CSCL-53-SAM	C-3052-068 B
9-CSCL-54-SAM	C-3052-070 B
7-1.125-8-CS-60-SAM**	C-3052-073 B
11X11-CSCL-62-SAM	C-3052-072
6-SS-XX-1.5-64-SAM	C-3052-064 A
PL-1.5-CS-65-SAM	C-3052-062 C
12-SS-80S-.500-66-SAM	C-3052-065 B
6-SS-80-.432-68-SAM	C-3052-067 A
6-CS-160-.718-69-SAM-R	D-3052-273
4.5-.75-8-CS-70-SAM	D-3052-071 D
4.5-SS-XX-1.0-71-SAM	C-3052-075 A

14.0 NDE CALIBRATION STANDARDS

<u>Ultrasonic Testing</u> <u>Calibration Block Number</u>	<u>Drawing Number</u>
IR-CSCL-73-SAM	D-3052-090 D
PL-CSCL-3.0-76-SAM-R	D-3052-606
14-SS-140-1.25-77-SAM	C-3052-166 C
14-SS-160-1.40-78-SAM	C-3052-167 B
14-SS-40-.438-79-SAM	C-3052-165 A
12-SS-120-1.0-80-SAM	C-3052-220 A
2.563-8-12-MSIV-82-SAM	D-3052-239 A
CRD-SS/IN-.625-83-SAM	D-3052-240 A
IR-CSCL-84-SAM	D-3052-241 A
PL-SS-.750-85-SAM	D-3052-243A
9.5-SS-X-.750-86-SAM	D-3052-242 B
PL-CS-4.5-88-SAM	D-3052-244 A
27.51D-CCSS-2.75-95-SAM	D-3052-252 A
14-SS-40-.250-96-SAM	D-3052-253
PL-SS-.250-97-SAM	D-3052-254
VF/S-CSCL-109-SAM	D-3052-603
N/S-CSCL-110-SAM	D-3052-604
1.5-SS-COUP-111-SAM	C-3052-605
IR-CSCL-112-SAM	D-3052-608 B
10-BC-SS-2.49-114-SAM	D-3052-611 A
4-BC-SS-1.438-115-SAM	D-3052-610 A
16-CS-XXX-1.0-116-SAM	D-3052-613 A
IR-CSCL-117-SAM	D-3052-614 A
PL-CSCL-5.0-118-SAM	D-3052-615
30-CS-X-1.10-119-SAM	D3052-616A
16-CS80-.844-123SAM	D3052-617

**** Currently not being used in Long Term Plan**

15.0 COMPONENT ALLOCATION

The following steps were performed to select and schedule (allocation) of components over the Third 10 Year Inspection Interval:

- The total number of examination areas was determined by Category after exemption criteria was applied.
- The specific number of components requiring examination was determined in accordance with the Code or Code Case as applicable, using percentage selection criteria where applicable.
- Components and welds requiring examination were then distributed among the Inspection Periods and the number of Refueling Outages per Period, considering area accessibility and anticipated radiation fields.

The allocation of Class 1, 2, and 3 and component supports for the third inservice inspection interval are contained in Appendix D.

Appendix D Tab No.	Description
1	Section XI Code Compliance Summary

16.0 COMPONENT ALLOCATION

Included in this section is the listing and proposed schedule of components subject to the examination during the Third 10 Year Inspection Interval.

16.1 The Inservice Inspection Program is categorized in conjunction with Section XI examination categories for Class 1(IWB), 2 (IWC), 3 (IWD), and Class 1, 2, & 3 components supports (IWF). The following items describe the information presented in the ISI Program:

- B. Exam Summary Number – This provides a unique, sequential, six-digit reference for each exam entry.
- C. Examination Category – An itemized listing of examination areas, items and components required for Class 1(IWB), 2 (IWC), 3 (IWD), and Class 1, 2, & 3 and components supports (IWF) component categories (e.g., B-A, C-A, D-A, and F-A).
- D. Item Number – A division within an examination category that separates the specific examination requirements (e.g., B1.10, C2.20, and D3.30).
- E. Description – Identifies the components subject to examination.
- F. NDE Method – Identifies the nondestructive examination method required for each component. The NDE abbreviations in the Program are as follows:

Surface	
MT	Magnetic Particle Testing
PT	Dye Penetrant Testing

VOLUMETRIC	
M-UT	Mechanized Ultrasonic Testing
UT	Ultrasonic Testing
RT	Radiography Testing

16.0 COMPONENT ALLOCATION

VISUAL	
VT-1	Visual Examination (Surface Conditions)
VT-2	Visual Examination (Leak Testing)
VT-3	Visual Examination (General Conditions & Functional Adequacy)

- G. Schedule – Identifies the inspection period that the component will be subject to examination during the inspection interval. The following is a listing of all cycle designators, which identifies the status codes of the particular component or weld:

IDDEAL Code	Code Description
s	Scheduled Exam
c	Completed Exam
r	Re-scheduled Exam
e	Expanded Scope Exam
E	Completed Expanded Scope Exam
a	Additional Expanded Scope Exam
A	Completed Additional Expanded Scope Exam
p	Partial Exam
d	Deferred Exam
l	Limited Exam
b	Multiple Scheduled Exam
B	Completed Multiple Scheduled Exam
t	Tickler
h	Successive Exams
H	Completed Successive Exams

- H. "Remarks" column – The remarks column is used to provide additional information pertinent to the inspections. Typical information includes the following:
- (a) A basic calibration block for each component scheduled for an ultrasonic inspection. This is to facilitate the users of this plan in selecting the correct calibration block for use during ultrasonic inspection.
 - (b) Special inspection requirements unique to a given component or system.

16.0 COMPONENT ALLOCATION

- (c) Other information necessary to explain previous examination results or limitations.

I. Component and System Identification

1. Vessels

All vessel welds and components are identified utilizing a unique component abbreviation. In the case of the RPV, a unit designator number follows the abbreviation. Following the component abbreviation is a unique examination area number.

For vessel examination areas, the following format is used:

(A)	(B)	(C)	
2	RPV	2024A	
			Unique Number (Westinghouse Assigned)
			Vessel Name
			Unit #

Where: A is the number 2 and denotes Salem Unit 2 except for nozzles and steam generators. For nozzles, A is the same as the connecting line size. For steam generators, A is the steam generator number.

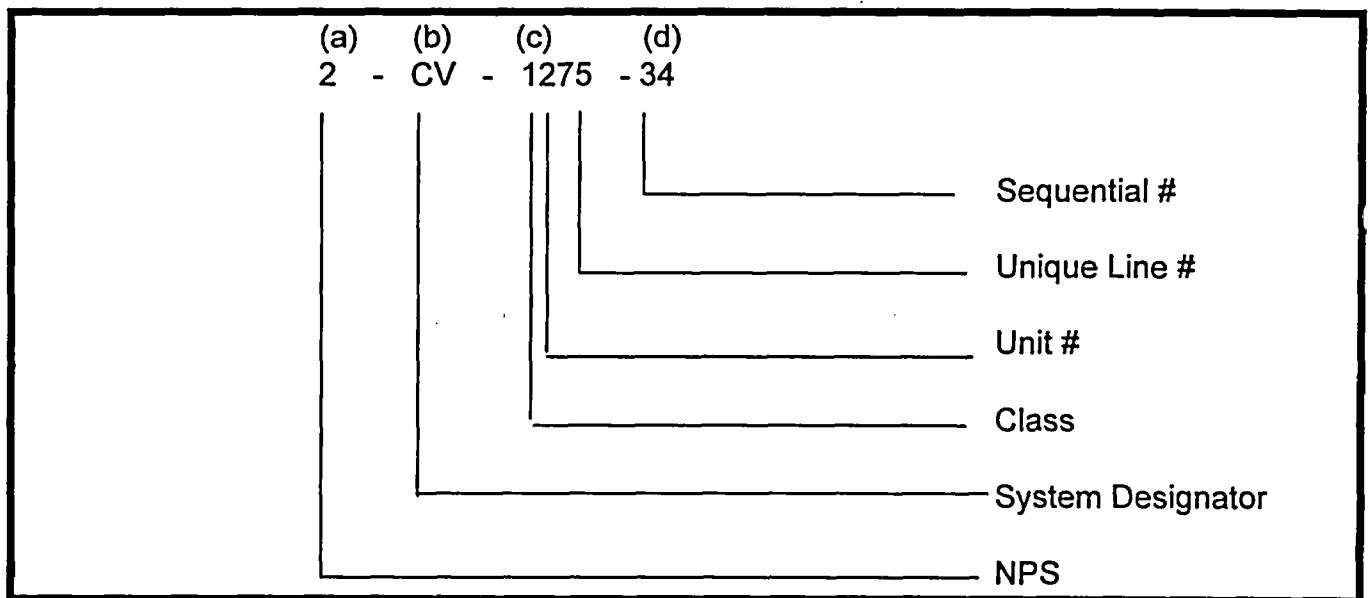
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Where: B denotes the vessel, as follows:

PZR- Pressurizer
PRN- Pressurizer Nozzles
RPV- Reactor Pressure Vessel
RPVCH- Reactor Pressure Vessel Closure Head
RCN- Steam Generator Nozzles
STG- Steam Generator

Where: C is a unique number of letters identifying the examination area.
For RPV circumferential, meridional, and longitudinal welds, C is the same number that Westinghouse assigned to the weld. C ends in IRD for inside radius section examination area.

2. Piping



- (a) This first character set denotes the nominal pipe diameter.
- (b) The second character set consists of an abbreviation that designates the applicable piping system. These abbreviations are identified in the Acronyms and Abbreviations section of this plan.
- (c) The third character set is a unique LTP Piping Line #, which when broken down identifies the Class, Unit # and a unique line #. For the Main Reactor Coolant Loops, the first integer correlates with

16.0 COMPONENT ALLOCATION

the steam generator number (1= steam generator 21, 2= steam generator 22, 3= steam generator 23, and 4= steam generator 24) and the second integer is 0.

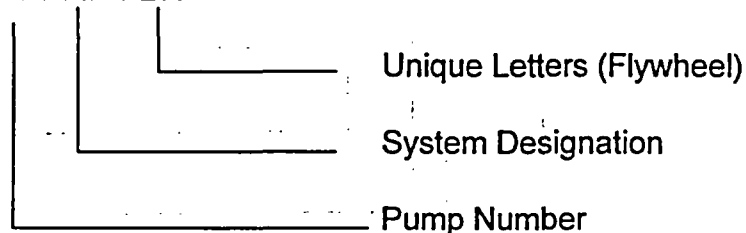
- (d) The fourth character set is a sequential number that identifies a unique component under the piping line number. The following is a description for the piping numbering scheme.

Specific examination areas for each piping line are designated under the applicable line number. The weld number assigned to the specific weld or examination area number corresponds to the numbers assigned on the piping isometrics. Weld numbers have been assigned in sequential order in the direction of flow. Where the direction of flow is ambiguous, a flow direction was assumed. Branch connections, longitudinal weld seams, lugs, hangers, etc. have been identified utilizing the adjacent weld numbers.

3. Pumps

Pump welds were assigned weld numbers as identified on the outline drawings contained in Appendices "H" and "I".

21-PMP-FLW



The RC pump examination areas are identified by a two-digit number, which identified the pump number, system designation (PMP- Reactor Coolant Pump, RHR- Residual Heat Removal), and a group of numbers and/or letters making each area uniquely identified.

16.0 COMPONENT ALLOCATION

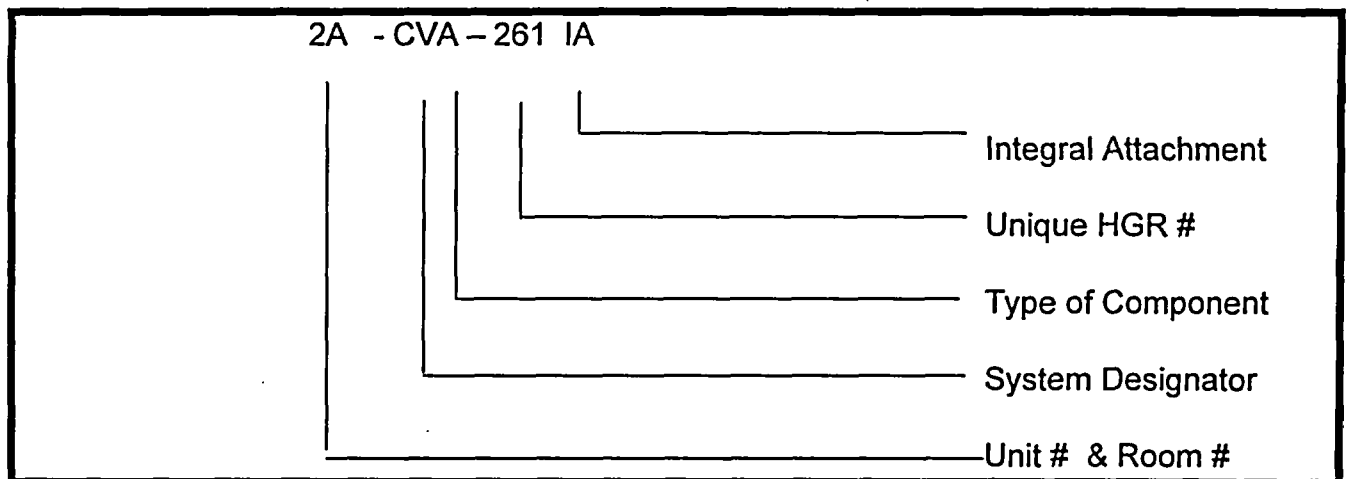
4. Support Components

Support components are identified on the isometrics only using the PSE&G-supplied hanger information and abbreviations. The following types of support components require VT-3 examination in accordance with the requirements of section XI.

A	Anchor	S	Support
G	Guide	H	Hanger
IA	Welded Attachment	R	Restraint (Valve)

The hanger description is depicted by the following support numbering scheme on the isometrics.

The hanger description is depicted by the following support numbering scheme on the isometrics.



Note:

The supports depicted on the ISI sketches/ isometrics are to be used for information only as the location, type of support and existences have not been verified against as-built configurations.

16.0 COMPONENT ALLOCATION

Date:

Salem Nuclear Generating Station Unit 2

Page:

ISI Program Long Term Plan Second Interval Class 1 Components

Revision:

Summary		Component ID		Description			Group	Misc. Info				
(1)		(2)		(3)			(4)	(5)				
Plant	ISO#	ISI	ISO #	ASME Cat.	ASME Item	ASME Class	System	Examination Method				
(6)		(7)		(8)	(9)	(10)	(11)	(12)	(12)			
Comments		(13)										
(14)	1st Interval			2nd Interval			3rd Interval			4th Interval		
SCOPE	1st Period	2nd Period	3rd Period	1st Period	2nd Period	3rd Period	1st Period	2nd Period	3rd Period	1st Period	2nd Period	3rd Period
ISI												
AUG												
OWN												
PRE												

1) Unique Reference Number.

2) ISI Program Component Identification Number

3) Component Description/ Configuration

4) Component Group Designation

5) Miscellaneous Information- Hanger Detail No., Calibration Block No.

6) Construction Isometric No.

7) ISI Sketch No.

8) ASME Section XI Examination Category Designation

9) ASME Section XI Examination Item Number

10) ASME Classification

11) System Designation

12) NDE Exam Method

13) Comments- Exam Limitation/Coverage, Additional Instructions

14) Examination History (Interval/Period/Outage)

16.0 COMPONENT ALLOCATION

- 16.2 Class 1 and 2 components selected for examination during the Second Inspection Interval to the extent practical meet the percentage requirements of Section XI, Tables IWB-2500-1 and IWC-2500-1, respectively. They will be scheduled in accordance with program "B" of Subarticle IWB and IWC-2400.
- 16.3 Guidelines for weld selection in piping systems (i.e., Category R-A for Class 1 and 2 piping welds) are listed in Section 17.0.

EXAMINATION SELECTION CRITERIA

CLASS 1 EXAMINATION SELECTION CRITERIA

Selection of components for examination during the Third Inspection Interval is based on the requirements of IWB-2500 from the 1998 Edition of Section XI, including the 2000 Addenda, with the exception of Class 1 piping.

Refer to Section 4.0 for a description of specific examination selection criteria listed by Examination Category and Item Number. Class 1 components and applicable welds selected are listed in Appendix F.

A Risk-Informed Inservice Inspection program has been implemented on the piping welds at Salem Unit 2 that was formerly identified under Examination Categories B-F and B-J. These piping welds are now addressed under Examination Category R-A per ASME Section XI Code Case N-578 and EPRI TR-112657. The RI-ISI methodology is further described in Section 17.0.

The RPV examinations will be performed in accordance with Appendix VIII or RPV examinations still invoking the guidance from the Alternate Method of Regulatory Guide 1.1150, Revision 1.

CLASS 2 EXAMINATION SELECTION CRITERIA

Selection of components for examination during the Third Inspection Interval is based on the requirements of IWC-2500 from the 1998 Edition of Section XI, including the 2000.

A Risk-Informed Inservice Inspection program has been implemented on the piping welds at Salem Unit 2 that was formerly identified under Examination Categories C-F-1 and C-F-2. These piping welds are now addressed under Examination Category R-A per ASME Section XI Code Case N-578 and EPRI TR-112657. The RI-ISI methodology is further described in Section 17.0.

16.0 COMPONENT ALLOCATION

Refer to section 10.0 for details of the augmented examination commitment for examination of Containment Spray piping.

Refer to Section 5.0 for a description of specific examination selection criteria listed by Examination Category and Item Number. Class 2 components and applicable welds selected are listed in Appendix G.

CLASS 3 EXAMINATION SELECTION CRITERIA

Selection of components for examination during the Third Inspection Interval is based on the requirements of IWC-2500 from the 1998 Edition of Section XI, including the 2000.

Refer to Section 6.0 for a description of specific examination selection criteria listed by Examination Category and Item Number. Class 3 components and applicable welded attachments selected are listed in Appendix H.

IWF SUPPORT EXAMINATION SELECTION CRITERIA

Selection of component supports for examination during the Third Inspection Interval is based on the requirements of IWF-2500 from the 1998 Edition of Section XI, including the 2000.

Section 12.0 contains Relief Request S2- I3-RR-F01 which identifies that the snubbers on Nuclear Class 1, 2, and 3 components will be examined and functionally tested in accordance with the Salem Generating Station, Unit 2 Technical Specifications.

Refer to Section 8.0 for a description of specific examination selection criteria listed by Examination Category and Item Number.

Outage History

Table 16-1 lists the refueling outage history for Salem Unit 2 and the corresponding database outage number. This information is helpful when determining outage duration and corresponding outage number.

16.0 COMPONENT ALLOCATION

TABLE 16-1
Outage History

Refueling Outage Number	INTERVAL / PERIOD / OUTAGE			ISI FINAL REFUELING OUTAGE REPORT DATE DESCRIPTIONS	Refueling Outage NDE VENDOR
	I	P	O		
Preservice					Southwest Research Institute
1	1	1	1	1/22/1983 – 7/31/1983	Southwest Research Institute
2	1	1	2	10/4/1984 – 4/18/1985	Southwest Research Institute
3	1	2	1	10/4/1986 – 12/23/1986	Southwest Research Institute
4	1	2	2	8/31/1988 – 12/2/1988	Southwest Research Institute
5	1	3	1	4/1/1990 – 6/24/1990	Southwest Research Institute
6*	1	3	2	11/9/1991 – 5/10/1992	Southwest Research Institute
7	2	1	1	3/17/1993 – 7/3/1993	Southwest Research Institute
8	2	1	2	10/15/1994 – 2/16/1995	Southwest Research Institute
9 (Includes 26 mos. & 21 days extended shutdown from 6/8/95 thru 8/29/97)	2	2	1	6/8/1995 – 8/29/1997	Southwest Research Institute Magnaflux Quality Services MQS Virginia Corporation of Richmond (VCR)
10 (56 days)	2	2	2	4/3/1999 – 5/28/1999	Framatome Technologies
11 (39 days)	2	3	3	10/6/2000 – 11/15/2000	Framatome Technologies
12 (32 days)	2	3	1	4/5/2002 – 5/17/2002	Framatome ANP
13*	2	3	2	9/2003 – 11/2003	Framatome ANP
14	3	1	1	4/2/2005 – 4/28/2005	Framatome ANP
15	3	1	2	10/7/2006 – 11/3/2006	Framatome ANP
16	3	2	1	4/5/2008 – 5/2/2008	Framatome ANP
17	3	2	2	10/3/2009 – 11/3/2009	Framatome ANP
18	3	3	1	4/4/2011 – 5/2/2011	Framatome ANP
19*	3	3	2	10/7/2012 – 11/3/2012	Framatome ANP
20	4	1	1	4/4/2014 – 5/3/2014	Framatome ANP
21	4	1	2	10/3/2015 – 11/3/2015	Framatome ANP
22	4	2	1	4/4/2017 – 5/2/2017	Framatome ANP
23	4	2	2	10/3/2018 – 11/3/2018	Framatome ANP
24	4	3	1	4/4/2020 – 5/2/2020	Framatome ANP
25*	4	3	2	10/3/2021 – 11/3/2021	Framatome ANP

* Indicates 10 Year Inspection Outage

17.0 RISK-INFORMED INSERVICE INSPECTIONS

17.1 INTRODUCTION

In 2003, a risk-informed methodology for the inservice inspection of Class 1 and 2 piping welds was applied at the Salem Nuclear Generating Station. The risk-informed inservice inspection (RI-ISI) process used in this application is described in Electric Power Research Institute (EPRI) Topical Report (TR) 112657, Rev. B-A "Revised Risk-Informed Inservice Inspection Evaluation Procedure." The RI-ISI application was also conducted in a manner consistent with ASME Code Case N-578, "Risk-Informed Requirements for Class 1, 2, and 3 Piping, Method B."

This risk-informed application met the intent and principles of Regulatory Guide 1.174, "An Approach for Using Probabilistic Risk Assessment in Risk-Informed Decisions On Plant-Specific Changes to the Licensing Basis" and Regulatory Guide 1.178, "An Approach for Plant-Specific Risk-Informed Decision making Inservice Inspection of Piping".

ASME Section XI Examination Categories B-F, B-J, C-F-1, and C-F-2 originally contained the requirements for the nondestructive examination (NDE) of Class 1 and 2 piping welds. The RI-ISI program was substituted for the current program for Class 1 and 2 piping welds in accordance with 10 CFR 50.55a(a)(3)(i) by alternatively providing an acceptable level of quality and safety. Other non-related portions of the ASME Section XI Code were unaffected. EPRI TR-112657 provides the requirements for defining the relationship between the RI-ISI program and the remaining unaffected portions of ASME Section XI.

This Section of the ISI Long Term Plan provides an overview of the EPRI RI-ISI methodology and explains the application.

The tasks involved in a RI-ISI application were as follows:

- Task 1: Scope and Exemption Determination
- Task 2: Consequence Evaluation
- Task 3: Degradation Mechanism Assessment
- Task 4: Service History Review
- Task 5: Segment Risk Ranking
- Task 6: Element Selection

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- Task 7: Risk Impact Evaluation
- Task 8: Program Submittal/ Risk-Informed Template
- Task 9: Scheduling (Selection Optimization)
- Task 10: Update ISI Program Documents
- Task 11: Final Report

17.2 RISK-INFORMED INSERVICE INSPECTION METHODOLOGY

Details on performance of the RI-ISI tasks listed in Section 17.1 are provided below. The documents described in Section 17.1 are contained in Document No. PSEG-001-007, "Final Report for the Risk-Informed Inservice Inspection Project for Salem Units 1 and 2."

Task 1: Scope and Exemption Determination

Per EPRI TR-112657 and ASME Code Case N-578, the EPRI risk-informed methodology may be applied to piping welds in Class 1, 2, 3, and non-classed systems, to individual Classes or combination of Classes, or to individual systems. For the Salem Nuclear Generating Station, the RI-ISI methodology was applied to piping welds in Class 1 and 2 systems. This corresponded to ASME Section XI Examination Categories B-F, B-J, C-F-1, and C-F-2. Classification boundaries were not changed or otherwise affected by the RI-ISI application. In addition, the exemption criteria, as addressed in Section 3.0 of this ISI Long Term Plan, were not affected. Therefore, piping that was previously exempted per ASME Section XI remains exempt in the RI-ISI application.

Task 2: Consequence Evaluation

Calculations were prepared documenting the pipe rupture consequence evaluation, and indicating the consequence category assigned to each piping segment, as well as the technical basis for those assignments. The consequence evaluation used insights from the plant's Individual Plant Examination (IPE) and Individual Plant Examination External Events (IPEEE) submittals. Pipe breaks at various locations were postulated to cause an initiating event, reduce or disable plant mitigating ability, effect containment performance, or any combination of the above effects. The consequence rank was based on these effects and on their impact on the plant core damage frequency (CDF) or large early release frequency (LERF).

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One of the aspects considered during the consequence evaluation included the potential spatial effects of a postulated pipe break. To verify potential spatial effects, walkdowns were performed. For Class 1 piping, plant walkdowns were not required because components inside containment are designed to withstand the effects of a pipe break event. However, for Class 2 piping, spatial impacts of piping failures were important (e.g., flooding and spray). Plant walkdowns were conducted to assure the consequence analysis was consistent with the actual configuration of the plant. In addition, abnormal operating procedures and operator response (e.g., sump alarm procedures) were used as key inputs into this analysis.

Results of the consequence evaluation were ultimately summarized in the risk ranking tables that are discussed in Task 5. The consequence evaluation is maintained in the project's final report.

Task 3: Degradation Mechanism Assessment

Detailed calculations were prepared documenting the evaluation of each piping segment with respect to the EPRI criteria for susceptibility to the various potential degradation mechanisms, and identifying specifically which degradation mechanisms are or are not applicable to each piping segment. The degradation mechanisms identified in the EPRI methodology as being applicable to nuclear plant piping are shown in Table 17-1. Specific criteria for susceptibility to these degradation mechanisms are spelled out in EPRI TR-112657. Once the degradation mechanisms were assigned to each piping segment in accordance with the EPRI criteria, the pipe rupture potential was established using the criteria shown in Table 17-1. The degradation mechanism evaluation was conducted in the form of a checklist for each system or portion of system included in the scope of the program. The results were documented in an engineering calculation. The completed checklists were independently reviewed for accuracy and completeness.

Results of the degradation mechanism assessment were ultimately summarized in the risk ranking tables that are discussed in Task 5. The degradation mechanism assessment is maintained in the project's final report.

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**TABLE 17-1
DEGRADATION MECHANISM CATEGORIES**

Pipe Rupture Potential	Expected Leak Conditions	Degradation Mechanisms To Which The Segment is Susceptible
HIGH	Large	Flow Accelerated Corrosion (FAC) Water Hammer⁽¹⁾
MEDIUM	Small	Thermal Fatigue (TASCS, Thermal Transients) Stress Corrosion Cracking (IGSCC, TGSCC, PWSCC, ECSCC) Localized Corrosion (MIC, Crevice Corrosion and Pitting) Erosion-Cavitation
LOW	None	No Degradation Mechanisms Present

(1) Water hammer in concert with any of the degradation mechanisms listed under "Medium" Pipe Rupture Potential.

Task 4: Service History Review

To supplement the degradation mechanism assessment performed under Task 3, a service history and susceptibility review was performed. This entailed an exhaustive review of databases (plant and industry) and station documents to characterize operating experience with respect to piping pressure boundary degradation. For this task, two members of the project team reviewed applicable documents and databases, prepared a service history review report, and conveyed findings to the project team members performing the degradation mechanism assessment. Plant documents that were reviewed as part of this effort included Outage Summary Reports, Owners Activity Reports (OAR), NIS-1 forms, NIS-2 forms, Licensee Event Reports (LERs), Performance Reviews, and Special Reports.

Results of the service history review were documented in a report that is maintained in the project's final report.

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Task 5: Segment Risk Ranking

Once the degradation mechanism assessment and consequence evaluation were completed, the results were used to perform a risk ranking of the piping segments within the scope of the RI-ISI effort. The piping segments were classified in accordance with the RI-ISI Risk Matrix (see Table 17-2), with the highest risk elements in the upper right hand corner of the matrix, and the lowest risk elements in the lower left hand corner.

TABLE 17-2
RI-ISI RISK MATRIX

Consequence Assessment Failure Potential Assessment		CONSEQUENCE CATEGORY CCDP and CLERP Potential			
		NONE	LOW	MEDIUM	HIGH
DEGRADATION CATEGORY Pipe Rupture Potential	HIGH	LOW (Cat. 7)	MEDIUM (Cat. 5)	HIGH (Cat. 3)	HIGH (Cat. 1)
	MEDIUM	LOW (Cat. 7)	LOW (Cat. 6)	MEDIUM (Cat. 5)	HIGH (Cat. 2)
	LOW	LOW (Cat. 7)	LOW (Cat. 7)	LOW (Cat. 6)	MEDIUM (Cat. 4)

The resulting risk ranking, along with the applicable input from the consequence evaluation and degradation mechanism assessment, were documented in risk ranking tables that include a summary table, matrix table, and report table. The risk ranking tables were documented in a calculation that is maintained in the project's final report.

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Task 6: Element Selection

Once the above tasks were completed, the project team convened an element selection meeting at the plant during which specific piping elements (generally welds) were selected for RI-ISI examination. The objective of this meeting was to select inspection locations in a way that minimized risk, cost, and radiation exposures. Examination element selections were conducted such that:

- 25% of the elements in the high risk region (i.e., risk categories 1, 2 and 3) were chosen for inspection,
- 10% of the elements in the medium risk region (i.e., risk categories 4 and 5) were chosen for inspection,
- No elements are required to be selected in the low risk region (i.e., risk categories 6 and 7), but all locations regardless of risk category will continue to receive pressure/leakage testing.
- Per Section 3.6.4.2 of EPRI TR-112657, if the percentage of Class 1 piping locations selected for examination falls substantially below 10%, then the basis for selection needs to be investigated. The initial results of the RI-ISI application were that 7.3% of the Class 1 piping welds in Unit 2 was selected for RI-ISI examination. This resulting percentage was below 10% because approximately 75% of the Class 1 piping population could be isolated in the event of a pipe break. For piping that can be isolated, a postulated break does not result in a loss of coolant accident. This supports a lower risk ranking for isolable welds, which in turn decreases the percentage of Class 1 welds that require risk-informed examination. Even with this justification, nineteen (19) additional locations were selected for examination in order to increase the overall percentage of Class 1 selections. These additional selections also supported the defense-in-depth philosophy. The additional welds increased the Class 1 selections to 8.6%.

Important considerations in the element selection process were inspectability, distribution of inspections among systems and segments, plant-specific inspection results, repairs or remedial measures which have been implemented, cost of inspecting potentially new locations, and radiation exposure. As such, representatives of appropriate PSEG staff (e.g., ISI Coordinator, radiation protection, etc.) participated in this meeting. Attendance at the element selection meeting included plant personnel familiar with the ISI Program including NDE, ALARA and scaffolding/insulation personnel, and plant risk assessment personnel.

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Elements that were selected for examination were indicated as such by underlining them in the risk ranking report table.

Task 7: Risk Impact Evaluation

Once the element selection under Task 6 was completed, the new set of locations that will be inspected under the RI-ISI program were compared to the locations that were inspected per ASME Section XI prior to the application of the RI-ISI methodology. A risk comparison was performed to ensure that the changes due to the new program resulted in either a reduction in risk, or at worst a negligible increase in risk, in accordance with applicable regulatory guidelines (Regulatory Guides 1.174 and 1.178). This was achieved by verifying that the cumulative impacts of all changes due to the inspection program result in either negligible increases in Core Damage Frequency and Large Early Release Frequency or actual decreases in the risk measurements. The risk impact evaluation was performed using a simplified risk quantification method as described in EPRI TR-112657, which has been accepted by the NRC. Results of the evaluation were documented in a risk impact analysis that is maintained in the project's final report.

Task 8: Program Submittal/Risk-Informed Template

Utilizing the results of the foregoing tasks, a plant-specific request for acceptable alternative inspection was generated in accordance with regulatory requirements. The request provided the background, justification and inspection recommendations as determined by the RI-ISI application, and was prepared in accordance with a template for risk-informed inservice inspection program submittals. This template was developed by industry, NEI and the NRC to streamline the RI-ISI submittal and NRC review process. The risk-informed inservice inspection template was submitted to the NRC for their review and approval.

Task 9: Scheduling (Selection Optimization)

During the element selection meeting, consideration was given to selecting those locations with the best accessibility and ALARA characteristics. For the selection optimization task, examinations were scheduled for those locations that were selected. Scheduling was performed to minimize the extent of examination-related activities (e.g., scaffolding installation and removal, insulation removal and reinstallation, etc.) by coordinating the examination schedules for piping elements as well as associated supports and components. At the same time, ASME Section XI Code criteria for meeting period percentage requirements (i.e., Tables IWB-2412 and IWC-2412) was maintained as addressed in Section 10.0 of this ISI Long Term Plan.

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Task 10: Update ISI Program Documents

The ISI program documents for Salem Unit 2 were updated to reflect the new risk-informed inspection program. The purpose of this task was to incorporate the results of the risk-informed application into existing station ISI Program documents. This task included the update of Salem's ISI Long Term Plan and ISI database. No revisions were required to the Salem Updated Final Safety Analysis Report or Technical Specifications. This task established a bridge between existing ISI Program documents and the risk-informed application.

Task 11: Final Report

A final report was prepared that tied all the risk-informed documents and calculation packages prepared for Salem together at the completion of the application. This report also described the methodology used for the RI-ISI application. All supporting documents and calculation packages were included as appendices to this report.

17.3 NONDESTRUCTIVE EXAMINATION REQUIREMENTS

For the risk-informed process, examination requirements shall be in accordance with EPRI Topical Report No. TR-112657. In some cases, the examination volumes required in the Topical Report are different than those required by ASME Section XI. For example, the examination volume required to look for thermal fatigue is expanded per the Topical Report to ensure that the potential degradation mechanism is detected, if it exists. The Salem Nuclear Generating Station will perform RI-ISI examinations in accordance with the Topical Report.

17.4 EXAMINATION CATEGORIES AND ITEM NUMBERS

As previously discussed, the requirements of EPRI Topical Report No. TR-112657 and Code Case N-578 supersede those of ASME Section XI for the risk-informed ISI application. Accordingly, the Examination Categories and Item Numbers provided in Code Case N-578 will replace those previously identified by ASME Section XI (i.e., Examination Categories B-F, B-J, C-F-1, and C-F-2). Guidance is also taken from the first revision of Code Case N-578 (i.e., N-578-1) that has a more complete listing of Code Item Numbers. The resulting RI-ISI Examination Category and Item Numbers are shown in Table 17-3.

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TABLE 17-3
RISK-INFORMED INSERVICE INSPECTION EXAMINATION CATEGORIES AND ITEM NUMBERS

SALEM NUCLEAR GENERATING STATION INSERVICE INSPECTION PROGRAM ASME SECTION XI CODE CATEGORY / ITEM NO. DESCRIPTION RISK-INFORMED PIPING EXAMINATIONS			
EXAM CATEGORY	ITEM #	ITEM DESCRIPTION	COMMENTS
R-A	R1.11	ELEMENTS SUBJECT TO THERMAL FATIGUE	Examine per EPRI Topical Report No. TR-112657.
R-A	R1.12	ELEMENTS SUBJECT TO HIGH CYCLE MECHANICAL FATIGUE	Examine per EPRI Topical Report No. TR-112657.
R-A	R1.13	ELEMENTS SUBJECT TO EROSION CAVITATION	Examine per EPRI Topical Report No. TR-112657.
R-A	R1.14	ELEMENTS SUBJECT TO CREVICE CORROSION CRACKING	Examine per EPRI Topical Report No. TR-112657.
R-A	R1.15	ELEMENTS SUBJECT TO PRIMARY WATER STRESS CORROSION CRACKING (PWSCC)	Examine per EPRI Topical Report No. TR-112657. Owner identified Augmented UT exams required as selected and scheduled.
R-A	R1.16	ELEMENTS SUBJECT TO INTERGRANULAR OR TRANSGRANULAR STRESS CORROSION CRACKING (IGSCC OR TGSCC)	Examine per EPRI Topical Report No. TR-112657.
R-A	R1.17	ELEMENTS SUBJECT TO LOCALIZED MICROBIOLOGICALLY-INDUCED CORROSION (MIC) OR PITTING	Examine per EPRI Topical Report No. TR-112657.
R-A	R1.18	ELEMENTS SUBJECT TO FLOW ACCELERATED CORROSION (FAC)	Examine per EPRI Topical Report No. TR-112657.
R-A	R1.19	ELEMENTS SUBJECT TO EXTERNAL CHLORIDE STRESS CORROSION CRACKING (ECCSCC)	Examine per EPRI Topical Report No. TR-112657.
R-A	R1.20	ELEMENTS NOT SUBJECT TO A DAMAGE MECHANISM	Examine per EPRI Topical Report No. TR-112657.

Appendix A

Inservice Inspection Program Boundary Basis Table

Appendix A
Salem Unit 2 Boundary Basis Table - Components

Component Number	Component Description	P&ID Number	ISI Sketch Number	VTD No.	Nuclear Class	Size Tube - Shell	Exempt From NDE	Basis For Exemption	Exam Type	Comments	Justification
2AFE1	No 2 Auxiliary FW Storage Tank HX	205336-01		132799	NSR/3	1-1/2/4	NA/YES	NA/IWD-1220(b)	NA/VT-2		
2AFE11	No.2 Auxiliary Feedwater Tank Vent Min. Flow Onfice	205336-01			3	8	YES	IWD-1220(a)	none		Open ended discharge piping excluded from VT-2 exam per IWC-5222(b)
2AFE2	No.2 Auxiliary FW Storage Tank Heating Water Circulator	205336-01		133000	3	3x1-1/2	YES	IWD-1220(b)	VT-2		
2AFE3	No.2 Auxiliary Feedwater Storage Tank	205336-01		123993	3	10" nozzle, others	NO		VT-2		
2AFE4	No.21 Auxiliary Feed Pump	205336-01		120349	3	6x3	NO		VT-1 thru VT 3		
2AFE5	No 22 Auxiliary Feed Pump	205336-01		120349	3	6x4	NO		VT-1 thru VT 3		
2AFE6	No.23 Auxiliary Feed Pump	205336-01		301140	3	6x4(8x6)	NO		VT-1 thru VT 3		
2AFE7	No.21 Auxiliary Feedwater Min. Flow Onfice	205336-01			3	2	YES	IWD-1220(a)	VT-2		
2AFE8	No 22 Auxiliary Feedwater Min. Flow Onfice	205336-01			3	2	YES	IWD-1220(a)	VT-2		
2AFE9	No 23 Auxiliary Feedwater Min. Flow Onfice	205336-01			3	2	YES	IWD-1220(a)	VT-2		
2BRE16	Boric Acid Evaporator Condenser	205229-01 205331-02		301610	NSR / 3	8 & 6	NA / NO		VT-1 thru VT 3		
2BRE17	Distillate Cooler	205229-01 205331-02		301610	NSR / 3	6 & 4	NA / NO		VT-1 thru VT 3		
2BRE18	Vent Condenser	205331-02			3	2	YES	IWD-1220(b)	VT-2		
2CAE11	No 2 Emergency Control Air Compressor Inter Cooler	205216-03			3		YES	IWD-1220(c)	VT-2		
2CAE5	No.2 Emergency Control Air Compressor Low & High Pressure Cyl. Cooling	205216-03			3		YES	IWD-1220(c)	VT-2		
2CAE6	No 2 Emergency Control Air Compressor After Cooler	205216-03			3		YES	IWD-1220(c)	VT-2		
2CCE1	No.2 Component Cooling Surge Tank	205331-01		106535	3	2 @ 4" ea.	NO		VT-1 thru VT 3		
2CCE2	No.21 Component Cooling Pump	205331-01		175421, Sheets 74 & 75	3	12x10	NO		VT-1 thru VT 3		
2CCE3	No.23 Component Cooling Pump	205331-01		175421, Sheets 74 & 75	3	12x10	NO		VT-1 thru VT 3		
2CCE4	No.22 Component Cooling Pump	205331-01		175421, Sheets 74 & 75	3	12x10	NO		VT-1 thru VT 3		
2CCE5	No.21 Component Cooling Heat Exchanger	205331-01 205342-03		108724	3/3	20/24	NO/NO		VT-1 thru VT 3		

Appendix A
Salem Unit 2 Boundary Basis Table - Components

Component Number	Component Description	P&ID Number	ISI Sketch Number	VTD No.	Nuclear Class	Size Tube - Shell	Exempt From NDE	Basis For Exemption	Exam Type	Comments	Justification
2CCE6	No 22 Component Cooling Heat Exchanger	205331-01 205342-04		108724	3/3	20/24	NO/NO		VT-1 thru VT-3		
2CH-	Applies to the following components on 205216-08: 2CHE9, 2CHE10, 2CHE11, 2CHE17, 2CHE18, 2CHE19, 21-thru-23CHE108 & 21-thru-23CHE109.				3				none	Out of Scope	Reg. Guide 1.26, Rev. 3 (Draft) applies to components containing water, steam & radioactive (waste) material, not to components containing refrigerant (freon).
2CHE10	No 22 Chiller Condenser	205342-05		130883	3	4 X 4	YES	IWD-1220(b)	VT-2		
2CHE11	No 23 Chiller Condenser	205342-05		130883	3	4 X 4	YES	IWD-1220(b)	VT-2		
2CHE17	No 21 Chiller Cooler	205216-02			3		YES	IWD-1220(c)	VT-2		
2CHE18	No 22 Chiller Cooler	205216-02			3		YES	IWD-1220(c)	VT-2		
2CHE19	No 23 Chiller Cooler	205216-02			3		YES	IWD-1220(c)	VT-2		
2CHE2	No 2 Emergency Air Condition Coil	205216-02			3		YES	IWD-1220(c)	VT-2		
2CHE20	No 21 Chill Cond. Water Recirc. Pump	205342-05		130881	3	4 X 3	YES	IWD-1220(b)	VT-2		
2CHE21	No 22 Chill Cond. Water Recirc. Pump	205342-05		130881	3	4 X 3	YES	IWD-1220(b)	VT-2		
2CHE22	No 23 Chill Cond. Water Recirc. Pump	205342-05		130881	3	4 X 3	YES	IWD-1220(b)	VT-2		
2CHE3	No 21 Air Conditioning Unit Coil	205216-02			3		YES	IWD-1220(c)	VT-2		
2CHE4	No 22 Air Conditioning Unit Coil	205216-02			3		YES	IWD-1220(c)	VT-2		
2CHE5	No 23 Air Conditioning Unit Coil	205216-02			3		YES	IWD-1220(c)	VT-2		
2CHE6	No 21 Chilled Water Pump	205216-02			3	4x3	YES	IWD-1220(c)	VT-2		
2CHE7	No 22 Chilled Water Pump	205216-02			3	4x3	YES	IWD-1220(c)	VT-2		
2CHE8	No 2 Expansion Tank	205216-02			3		YES	IWD-1220(c)	VT-2		
2CHE9	No 21 Chiller Condenser	205342-05		130883	3	4 X 4	YES	IWD-1220(b)	VT-2		
2CSE1	No 21 Containment Spray Pump	205335-01		110929	3	10 x 8	NO		VT-1 thru VT-3		
2CSE2	No 22 Containment Spray Pump	205335-01		110929	3	10 x 8	NO		VT-1 thru VT-3		
2CSE3	No 21 Containment Spray Eductor	205335-01			3	3x3x3	YES	IWD-1220(b)	VT-2		
2CSE4	No 22 Containment Spray Eductor	205335-01			3	3x3x3	YES	IWD-1220(b)	VT-2		
2CSE5	No. 2 Spray Additive Tank	205335-01			3	3	YES	IWD-1220(b)	VT-2		
2CVE1	No 2 Boric Acid Batching Tank	205328-01			2		YES	IWC-1221(a)(2)	VT-2		
2CVE10	No 2 Seal Water Heat Exchanger	205328-02		104925	3/NSR	4/4	YES/NA	IWD-1220(b) /--	VT-2 /--		
2CVE11	No 2 Seal Water Filter	205328-02			NSR				none	Out of Scope	
2CVE12	No 21 Mixed Bed Demineralizer	205328-01			NSR				none	Out of Scope	
2CVE13	No 22 Mixed Bed Demineralizer	205328-01			NSR				none	Out of Scope	
2CVE14	No 2 Cation Bed Demineralizer	205328-01			NSR				none	Out of Scope	
2CVE15	No 21 Deborating Demineralizer	205328-01			NSR				none	Out of Scope	
2CVE16	No 22 Deborating Demineralizer	205328-01			NSR				none	Out of Scope	
2CVE17	No 2 Letdown Heat Exchanger	205328-02	B-008	104926	NSR/3	3/6	NA/YES	--IWD-1220(c)	--VT-2	The exams were marked inactive for 3rd interval.	
2CVE18	No 21 Seal Water Injection Filter	205328-02		313631	2	2	NO			HPSI	
2CVE19	No 22 Seal Water Injection Filter	205328-02		313631	2	2	NO			HPSI	
2CVE2	No 21 Boric Acid Tank	205328-01		106533	2		YES	IWC-1221(a)(2)	VT-2		
2CVE20	No 21 Charging Safety Injection (C/SI) Pump	205328-02		301137 Sheets 92, 129 & 220	2	6x4	NO			HPSI need to add supports	
2CVE21	No 22 Charging Safety Injection (C/SI) Pump	205328-02		301137 Sheets 92, 129 & 220	2	6x4	NO			HPSI need to add supports	

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Salem Unit 2 Boundary Basis Table - Components

Component Number	Component Description	P&ID Number	ISI Sketch Number	VTD No.	Nuclear Class	Size Tube - Shell	Exempt From NDE	Basis For Exemption	Exam Type	Comments	Justification
2CVE22	No 23 Charging Pump Reciprocating	205328-02		106175	2	4x3	YES	IWC-1221(a)(2)	VT-2		
2CVE23	No.2 Excess Letdown Heat Exchanger	205328-02	B-006		2/3	2/4	YES/YES	IWC-1221(a)(2)/ IWD-1220(b)	VT-2/VT-2		
2CVE24	No.2 Regenerative Heat Exchanger	205328-02	B-010	301110	NSR/2	3/3	NA/YES	-IWC-1221(a)(2)	AE/VT VT-2	PSEG elected to retain for third interval..	
2CVE25	Boric Acid Filter	205328-01			2		YES	IWC-1221(a)(2)	VT-2		
2CVE26	No 2 Resin Fill Tank	205328-01			NSR				none	Out of Scope	
2CVE27	No. 21 Head Tank L.O.	205328-03			NSR	2x1			none	Out of Scope	
2CVE28	No. 22 Head Tank L.O.	205328-03			NSR	2x1			none	Out of Scope	
2CVE29	No. 23 Head Tank L.O.	205328-03			NSR	2x1			none	Out of Scope	
2CVE3	No 22 Boric Acid Tank	205328-01			2		YES	IWC-1221(a)(2)	VT-2		
2CVE30	No. 24 Head Tank L.O.	205328-03			NSR	2x1			none	Out of Scope	
2CVE33	No 22 C/SI Pump Mech Seal HX	205331-01			3	1/2	YES	IWD-1220(b)	VT-2		
2CVE34	No 21 C/SI Pump Mech Seal HX	205331-01			3	1/2	YES	IWD-1220(b)	VT-2		
2CVE35	No 21 C/SI Pump Seal Plate Gland Coolers	205331-01			3	1/2	YES	IWD-1220(b)	VT-2		
2CVE36	No 22 C/SI Pump Seal Plate Gland Coolers	205331-01			3	1/2	YES	IWD-1220(b)	VT-2		
2CVE37	No 21 Charging SI Pump Lube Oil Cooler	205342-04		300000	3	1 X 1	YES	IWD-1220(b)	VT-2		
2CVE39	No.22 Charging SI Pump Gear Oil Cooler	205342-03		320477	3	1 X 1	YES	IWD-1220(b)	VT-2		
2CVE4	No 21 Boric Acid Transfer Pump	205328-01			2		YES	IWC-1221(a)(2)	VT-2		
2CVE40	No 22 Charging SI Pump Lube Oil Cooler	205342-03		300000	3	1 X 1	YES	IWD-1220(b)	VT-2		
2CVE41	No 21 Charging SI Pump Gear Oil Cooler	205342-04		320477	3	1 X 1	YES	IWD-1220(b)	VT-2		
2CVE47	Pulsation Dampener	205328-02			2	3	YES	IWC-1221(a)(2)	VT-2		
2CVE5	No 22 Boric Acid Transfer Pump	205328-01			2		YES	IWC-1221(a)(2)	VT-2		
2CVE57	No.23 Charging Pump Recip. Gyro. Fluid Drive Oil Cooler	205331-01			3	2-1/2	YES	IWD-1220(b)	VT-2		
2CVE58	No.23 Charging Pump Recip. Pump Oil Cooler	205331-01			3	1	YES	IWD-1220(b)	VT-2		
2CVE6	No.2 Volume Control Tank (VCT)	205328-01	B-005	106425	2	4" & 3" inlet nozzles; 4" outlet nozzle	NO		VT-2		The vessel contains multiple inlet nozzles
2CVE7	No 2 Chemical Addition Tank	205328-01			2		YES	IWC-1221(a)(2)	VT-2		
2CVE8	No.2 Reactor Coolant Filter	205328-01	B-009	112308 313631	NSR				none	Out of Scope. Exams marked inactive for 3rd interval.	Classified as 'not Safety Related' in SAP
2CVE9	No.2 Boric Acid Blender	205328-01			2	2	YES	IWC-1221(a)(2)	VT-2		
2DAE1	No 2A Diesel Generator Lube Oil Cooler	205342-03		316535	N	6			none	Out of Scope	Quality Group code is 'N' in SAP
2DAE2	No.2B Diesel Generator Lube Oil Cooler	205342-03		316535	N	6			none	Out of Scope	Quality Group code is 'N' in SAP
2DAE3	No.2C Diesel Generator Lube Oil Cooler	205342-03		316535	N	6			none	Out of Scope	Quality Group code is 'N' in SAP
2DAE58	No 2A Diesel Generator Jacket Water Cooler	205342-03		316535	N	6			none	Out of Scope	Quality Group code is 'N' in SAP
2DAE59	No.2B Diesel Generator Jacket Water Cooler	205342-03		316535	N	6			none	Out of Scope	Quality Group code is 'N' in SAP
2DAE60	No.2C Diesel Generator Jacket Water Cooler	205342-03		316535	N	6			none	Out of Scope	Quality Group code is 'N' in SAP
2GBE3	No 2B Steam Generator Blowdown HX	205342-05				4 X 4			none	Out of Scope	Abandoned in Place
2GBE4	No.2B Steam Generator Blowdown HX	205342-05				4 X 4			none	Out of Scope	Abandoned in Place
2MSE3	No. 23 Auxiliary Feed Pump Turbine	205336-01			N/A	4x8			none	Out of Scope	Reg. Guide 1.26, Rev. 3 (draft) excludes turbines in Regulatory Position C.1
2MSE57	No 21 MS Sensing Line Condensing Reservoir	205303-01			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE58	No 21 MS Sensing Line Condensing Reservoir	205303-01			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE59	No 21 MS Sensing Line Condensing Reservoir	205303-01			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE60	No.21 MS Sensing Line Condensing Reservoir	205303-01			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE61	No.22 MS Sensing Line Condensing Reservoir	205303-02			2	1	YES	IWC-1222(a)(2)	VT-2		

Appendix A

Salem Unit 2 Boundary Basis Table - Components

Component Number	Component Description	P&ID Number	ISI Sketch Number	VTD No.	Nuclear Class	Size Tube - Shell	Exempt From NDE	Basis For Exemption	Exam Type	Comments	Justification
2MSE62	No.22 MS Sensing Line Condensing Reservoir	205303-02			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE63	No.22 MS Sensing Line Condensing Reservoir	205303-02			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE64	No.22 MS Sensing Line Condensing Reservoir	205303-02			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE65	No.23 MS Sensing Line Condensing Reservoir	205303-01			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE66	No.23 MS Sensing Line Condensing Reservoir	205303-01			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE67	No.23 MS Sensing Line Condensing Reservoir	205303-01			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE68	No.23 MS Sensing Line Condensing Reservoir	205303-01			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE69	No.24 MS Sensing Line Condensing Reservoir	205303-02			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE70	No.24 MS Sensing Line Condensing Reservoir	205303-02			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE71	No.24 MS Sensing Line Condensing Reservoir	205303-02			2	1	YES	IWC-1222(a)(2)	VT-2		
2MSE72	No.24 MS Sensing Line Condensing Reservoir	205303-02			2	1	YES	IWC-1222(a)(2)	VT-2		
2RCE1	No.2 Reactor Pressure Vessel (RPV)	205301-01 205301-02 205301-03	A-001 A-002 A-02A A-003 A-004	106545 301199	1		NO		VOL SUR VT-2 VT-3		
2RCE10	No.2 Pressurizer	205301-01	A-005	139846 301105 301198	1		NO		VOL SUR VT-2 VT-3		
2RCE11	No.2 Pressurizer Relief Tank (PRT)	205301-01		106710	2	10" Dia.	YES	IWC-1222(c)	VT-2		Operating Temp/Press during blowdown limited to 200 Deg/50 PSI
2RCE18	No.21 RCP Motor Coolers	205331-03			3	3 & 1	YES	IWD-1220(b)	VT-2		
2RCE19	No.22 RCP Motor Coolers	205331-03			3	3 & 1	YES	IWD-1220(b)	VT-2		
2RCE2	No.21 Steam Generator	205301-02 205302-03	A-009 B-004	102279, 301197, Sheet 92	1/2		NO/NO		VOL SUR VT-2 VT-3	need to add lower vert supports	SEE ALSO DWGS 247392 & 247393
2RCE20	No.23 RCP Motor Coolers	205331-03			3	3 & 1	YES	IWD-1220(b)	VT-2		
2RCE21	No.24 RCP Motor Coolers	205331-03			3	3 & 1	YES	IWD-1220(b)	VT-2		
2RCE22	No.21 RCP Mech. Seal Cooler	205331-03			3	1-1/2	YES	IWD-1220(b)	VT-2		
2RCE23	No.22 RCP Mech. Seal Cooler	205331-03			3	1-1/2	YES	IWD-1220(b)	VT-2		
2RCE24	No.23 RCP Mech. Seal Cooler	205331-03			3	1-1/2	YES	IWD-1220(b)	VT-2		
2RCE25	No.24 RCP Mech. Seal Cooler	205331-03			3	1-1/2	YES	IWD-1220(b)	VT-2		
2RCE3	No.21 Reactor Coolant Pump	205301-02	A-109	122186 117246	1	31x27-1/2	NO		VOL SUR VT-2 VT-3		
2RCE3	No.21 RCP Seal	205327-03			NSR	1-1/2x2			none	Out of Scope	
2RCE4	No.22 Steam Generator	205301-03 205302-03	A-008 B-003	301197, Sheet 92	1/2		NO/NO		VOL SUR VT-2 VT-3	need to add lower vert supports	
2RCE5	No.22 Reactor Coolant Pump	205301-03	A-109	122186 117246	1	31x27-1/2	NO		VOL SUR VT-2 VT-3		
2RCE5	No.22 RCP Seal	205327-03			NSR	1-1/2x2			none	Out of Scope	
2RCE6	No.23 Steam Generator	205301-02 205302-03	A-007 B-002	301197, Sheet 92	1/2		NO/NO		VOL SUR VT-2 VT-3	need to add lower vert supports	
2RCE7	No.23 Reactor Coolant Pump	205301-02	A-109	122186 117246	1	31x27-1/2	NO		VOL SUR VT-2 VT-3		
2RCE7	No.23 RCP Seal	205327-03			NSR	1-1/2x2			none	Out of Scope	
2RCE8	No.24 Steam Generator	205301-03 205302-03	A-008 B-001	301197, Sheet 92	1/2		NO/NO		VOL SUR VT-2 VT-3	need to add lower vert supports	

Appendix A
Salem Unit 2 Boundary Basis Table - Components

Component Number	Component Description	P&ID Number	ISI Sketch Number	VTD No.	Nuclear Class	Size Tube - Shell	Exempt From NDE	Basis For Exemption	Exam Type	Comments	Justification
2RCE9	No 24 Reactor Coolant Pump	205301-03	A-109	122186 117246	1	31x27-1/2	NO		VOL SUR VT-2 VT-3		
2RCE9	No. 24 RCP Seal	205327-03			NSR	1-1/2x2			none	Out of Scope	
2RHE1	No. 21 Residual Heat Removal Pump	205332-01		108387 117596	2	14x8	NO				
2RHE2	No. 22 Residual Heat Removal Pump	205332-02		108387 117596	2	14x8	NO				
2RHE3	No.21 RHR Heat Exchanger	205332-01 205331-01	B-011	117597 117598 117599	2/3	14/18	NO/NO				
2RHE4	No.22 RHR Heat Exchanger	205332-02 205331-01	B-012	117597 117598 117599	2/3	14/18	NO/NO				
2RHE7	No 21 RHR Pump Mech Seal HX	205331-01			3	3/4	YES	IWD-1220(b)	VT-2		
2RHE7	No. 21 RHR Pump Mech. Seal HX	205332-01			2	3/4	YES	IWC-1221(a)(2)	VT-2		
2RHE8	No 22 RHR Pump Mech Seal HX	205331-01			3	3/4	YES	IWD-1220(b)	VT-2		
2RHE8	No. 22 RHR Pump Mech. Seal HX	205332-02			2	3/4	YES	IWC-1221(a)(2)	VT-2		
2SFE1	No.2 Refueling Water Purification Pump	205333-01		109090	NSR	3x1-1/2	-		AE/VT	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2SFE12	Spent Fuel Pit Heat Exchanger	205333-01 205331-02		301110	NSR / 3	10/10	NA/NO		NA / VT-1 thru VT-3		
2SFE2	No.2 Spent Fuel Pit Demineralizer	205333-01			NSR	3	-		AE/VT	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2SFE3	No.2 Refueling Water Purification Filter	205333-01			NSR	2	-		AE/VT	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2SFE4	No.2 Spent Fuel Pit Filter	205333-01			NSR	2	-		AE/VT	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2SFE5	No.21 Spent Fuel Pump	205333-01			NSR	10x8	-		AE/VT	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2SFE6	No.21 Spent Fuel Pump	205333-01			NSR	10x8	-		AE/VT	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2SJE1	No. 2 Refueling Water Storage Tank Heat Exchanger	205334-01		132799 316309	NSR/3	2/4	NA/YES	NA / IWD-1220(b)	NA / VT-2		
2SJE10	No. 2 RWST Heating Water Circulation Pump	205334-01			3	3x1-1/2	YES	IWD-1220(b)	VT-2		
2SJE100	No.21 SI Pump Lube Oil Cooler	205342-04		108386	3	1 X 1	YES	IWD-1220(b)	VT-2		
2SJE101	No 22 SI Pump Lube Oil Cooler	205342-03		108386	3	1-1/2 X 1	YES	IWD-1220(b)	VT-2		
2SJE13	No.21 SI Pump Seal Water HX	205331-01			3	1-1/2	YES	IWD-1220(b)	VT-2		
2SJE14	No.22 SI Pump Seal Water HX	205331-01			3	1-1/2	YES	IWD-1220(b)	VT-2		

Appendix A
Salem Unit 2 Boundary Basis Table - Components

Component Number	Component Description	P&ID Number	ISI Sketch Number	VTD No.	Nuclear Class	Size Tube - Shell	Exempt From NDE	Basis For Exemption	Exam Type	Comments	Justification
2SJE2	No.21 Safety Injection Pump	205334-02		108386 110454 301116	2	6x4 (4x2.5)	NO				
2SJE3	No.22 Safety Injection Pump	205334-02		108386 110454 301116	2	6x4 (4x2.5)	NO				
2SJE4	No.2 Boron Injection Tank (BIT)	205334-01	B-119	112498	2	2 ea. - 6" Nozzles	NO		VOL VT-2	HPSI	
2SJE5	No. 2 Refueling Water Storage Tank (RWST)	205334-01		147766	2	20" Nozzle, others	YES	IWC-1221(d)	VT-2		Water source for HPSI
2SJE6	No.21 Accumulator	205334-04			2	10	YES	IWC-1221(c)	VT-2	Optionally upgraded to Class 2 for ISI only.	Reference: NRC Reg. Guide 1.26, Rev.3 (draft); Regulatory Position C.1.b.
2SJE7	No.22 Accumulator	205334-04			2	10	YES	IWC-1221(c)	VT-2	Optionally upgraded to Class 2 for ISI only.	Reference: NRC Reg. Guide 1.26, Rev.3 (draft); Regulatory Position C.1.b.
2SJE8	No.23 Accumulator	205334-04			2	10	YES	IWC-1221(c)	VT-2	Optionally upgraded to Class 2 for ISI only.	Reference: NRC Reg. Guide 1.26, Rev.3 (draft); Regulatory Position C.1.b.
2SJE9	No.24 Accumulator	205334-04			2	10	YES	IWC-1221(c)	VT-2	Optionally upgraded to Class 2 for ISI only.	Reference: NRC Reg. Guide 1.26, Rev.3 (draft); Regulatory Position C.1.b.
2SSE80	2R19A Heat Exchanger	205331-02			3	1	YES	IWD-1220(b)	VT-2		
2SSE81	2R19B Heat Exchanger	205331-02			3	1	YES	IWD-1220(b)	VT-2		
2SSE82	2R19C Heat Exchanger	205331-02			3	1	YES	IWD-1220(b)	VT-2		
2SSE83	2R19D Heat Exchanger	205331-02			3	1	YES	IWD-1220(b)	VT-2		
2SWE1	No.21 Service Water Pump	205342-01		320202 320203	3	20	NO		VT-1 thru VT 3		
2SWE10	No.24 Auto Strainer	205342-02		304931	3	20	NO		VT-1 thru VT 3		
2SWE11	No.25 Auto Strainer	205342-02		304931	3	20	NO		VT-1 thru VT 3		
2SWE12	No.26 Auto Strainer	205342-02		304931	3	20	NO		VT-1 thru VT 3		
2SWE125	No.21 SW Accumulator Vessel	205342-07		322805	3	10	NO		VT-1 thru VT 3		
2SWE126	No.21 SW Accumulator Pump	205342-07		322932	NSR	1-1/2 X 1			none	Out of Scope	
2SWE127	No.22 SW Accumulator Vessel	205342-07		322805	3	10	NO		VT-1 thru VT 3		
2SWE128	No.22 SW Accumulator Pump	205342-07		322932	NSR	1-1/2 X 1			none	Out of Scope	
2SWE13	No.21 RHR Pump Room Cooler(2VHE31)	205342-03		127819	3	1-1/2 X 1-1/2	YES	IWD-1220(b)	VT-2		
2SWE14	No.22 Charging Pump Room Cooler(2VHE38)	205342-03		127819	3	2 X 2	YES	IWD-1220(b)	VT-2		
2SWE15	No.21 Containment Spray Pump Room Cooler(2VHE40)	205342-03		127819	3	1-1/2 X 1-1/2	YES	IWD-1220(b)	VT-2		
2SWE16	No.21 Component Cooling Pump Room Cooler(2VHE33)	205342-03		127819	3	1-1/2 X 1-1/2	YES	IWD-1220(b)	VT-2		
2SWE17	No.2 AFW Pump Room Cooler(2VHE36)	205342-03		127819	3	1-1/2 X 1-1/2	YES	IWD-1220(b)	VT-2		
2SWE18	No.22 Component Cooling Pump Room Cooler(2VHE34)	205342-04		127819	3	2 X 2	YES	IWD-1220(b)	VT-2		

Appendix A
Salem Unit 2 Boundary Basis Table - Components

Component Number	Component Description	P&ID Number	ISI Sketch Number	VTD No.	Nuclear Class	Size Tube - Shell	Exempt From NDE	Basis For Exemption	Exam Type	Comments	Justification
2SWE19	No.22 RHR Pump Room Cooler(2VHE32)	205342-04		127819	3	1-1/2 X 1-1/2	YES	IWD-1220(b)	VT-2		
2SWE2	No.22 Service Water Pump	205342-01		320202 320203	3	20	NO		VT-1 thru VT-3		
2SWE20	No.21 Charging Pump Room Cooler(2VHE37)	205342-04		127819	3	2 X 2	YES	IWD-1220(b)	VT-2		
2SWE21	No.2 SI Pump Room Cooler (2VHE35)	205342-04		127819	3	1-1/2 X 1-1/2	YES	IWD-1220(b)	VT-2		
2SWE22	No.22 Containment Spray Pump Room Cooler(2VHE41)	205342-04		127819	3	1-1/2 X 1-1/2	YES	IWD-1220(b)	VT-2		
2SWE23	No.23 Charging Pump Room Cooler(2VHE39)	205342-04		127819	3	1-1/2 X 1-1/2	YES	IWD-1220(b)	VT-2		
2SWE24	No.21 Containment Fan Coil Unit Cooler Coils	205342-06		300002	3	3	YES	IWD-1220(b)	VT-2		
2SWE25	No.22 Containment Fan Coil Unit Cooler Coils	205342-06		300002	3	3	YES	IWD-1220(b)	VT-2		
2SWE26	No.23 Containment Fan Coil Unit Cooler Coils	205342-06		300002	3	3	YES	IWD-1220(b)	VT-2		
2SWE27	No.24 Containment Fan Coil Unit Cooler Coils	205342-06		300002	3	3	YES	IWD-1220(b)	VT-2		
2SWE28	No.25 Containment Fan Coil Unit Cooler Coils	205342-06		300002	3	3	YES	IWD-1220(b)	VT-2		
2SWE29	No.21 CFCU Motor Cooler	205342-06		300010	3	2 X 2	YES	IWD-1220(b)	VT-2		
2SWE3	No.23 Service Water Pump	205342-01		320202 320203	3	20	NO		VT-1 thru VT-3		
2SWE30	No.22 CFCU Motor Cooler	205342-06		300010	3	2 X 2	YES	IWD-1220(b)	VT-2		
2SWE31	No.23 CFCU Motor Cooler	205342-06		300010	3	2 X 2	YES	IWD-1220(b)	VT-2		
2SWE32	No.24 CFCU Motor Cooler	205342-06		300010	3	2 X 2	YES	IWD-1220(b)	VT-2		
2SWE33	No.25 CFCU Motor Cooler	205342-06		300010	3	2 X 2	YES	IWD-1220(b)	VT-2		
2SWE34	No.21 Pump Motor Upper Bearing Cooler	205342-01			3	1/2	YES	IWD-1220(b)	VT-2		
2SWE35	No.22 Pump Motor Upper Bearing Cooler	205342-01			3	1/2	YES	IWD-1220(b)	VT-2		
2SWE36	No.23 Pump Motor Upper Bearing Cooler	205342-01			3	1/2	YES	IWD-1220(b)	VT-2		
2SWE37	No.24 Pump Motor Upper Bearing Cooler	205342-02			3	1/2	YES	IWD-1220(b)	VT-2		
2SWE38	No.25 Pump Motor Upper Bearing Cooler	205342-02			3	1/2	YES	IWD-1220(b)	VT-2		
2SWE39	No.26 Pump Motor Upper Bearing Cooler	205342-02			3	1/2	YES	IWD-1220(b)	VT-2		
2SWE4	No.24 Service Water Pump	205342-02		320202 320203	3	20	NO		VT-1 thru VT-3		
2SWE5	No.25 Service Water Pump	205342-02		320202 320203	3	20	NO		VT-1 thru VT-3		
2SWE6	No.26 Service Water Pump	205342-02		320202 320203	3	20	NO		VT-1 thru VT-3		
2SWE7	No.21 Auto Strainer	205342-01		304931	3	20	NO		VT-1 thru VT-3		
2SWE8	No.22 Auto Strainer	205342-01		304931	3	20	NO		VT-1 thru VT-3		
2SWE9	No.23 Auto Strainer	205342-01		304931	3	20	NO		VT-1 thru VT-3		
2WGE14	Waste Evaporator Condenser	205331-02				6				Abandoned in Place	Not listed in SAP
2WGE17	Waste Condenser Vent Gas Cooler	205331-02				2				Abandoned in Place	Not listed in SAP
2WGE2	No.21 Waste Gas Heat Exchanger	205331-02			3	1-1/2	YES	IWD-1220(b)	VT-2		
2WGE22	Waste Evaporator Sub-Cooler	205331-02				6				Abandoned in Place	Not listed in SAP
2WGE3	No.22 Waste Gas Heat Exchanger	205331-02			3	1-1/2	YES	IWD-1220(b)	VT-2		
2WGE4	No.21 Gas Decay Tank	205340-02			3	1	YES	IWD-1220(b)	VT-2		

Appendix A

Salem Unit 2 Boundary Basis Table - Components

Component Number	Component Description	P&ID Number	ISI Sketch Number	VTD No.	Nuclear Class	Size Tube - Shell	Exempt From NDE	Basis For Exemption	Exam Type	Comments	Justification
2WGE5	No. 22 Gas Decay Tank	205340-02			3	1	YES	IWD-1220(b)	VT-2		
2WGE6	No. 23 Gas Decay Tank	205340-02			3	1	YES	IWD-1220(b)	VT-2		
2WGE7	No. 24 Gas Decay Tank	205340-02			3	1	YES	IWD-1220(b)	VT-2		
2WLE10	No. 21 Waste Holdup Tank	205339-02			NSR		-		AEVT	AEVT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WLE11	No. 21 Waste Holdup Tank	205339-02			NSR		-		AEVT	AEVT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WLE12	No. 21 Waste Holdup Tank	205339-02			NSR		-		AEVT	AEVT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2AF-1000		AF22-1		205336-01	10	3	54A	NO		VT-1		
2AF-1001		AF22-1		205336-01	10	3	54A	NO		VT-1		
2AF-1002				205336-01	3	3	54A	YES	IWD-1220(a)	VT-2 only		
2AF-1003				205336-01	1-1/2	3	54A	YES	IWD-1220(a)	VT-2 only		
2AF-1004				205336-01	4 & 3	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1005				205336-01	4 & 3	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1006		AF22-1		205336-01	6	3	54A	NO		VT-1		
2AF-1007		AF22-5		205336-01	6	3	54D	NO		VT-1	No welded attachments or supports.	
2AF-1008				205336-01	4 & 3	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1009				205336-01	4 & 3	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1010				205336-01	4	3	54E	YES	IWD-1220(a)	VT-2 only		
2AF-1011	4-AF-2231	AF23-2	B-122-1	205302-03	4	2	16A	NO				Added for RI-ISI & Third Interval [98A00].
2AF-1011	4-AF-2231	AF23-2	B-122-1	205336-01	4	2	16A	NO				Added for RI-ISI & Third Interval [98A00].
2AF-1012				205336-01	3	3	54A	YES	IWD-1220(a)	VT-2 only		
2AF-1013				205336-01	4	3	54E	YES	IWD-1220(a)	VT-2 only	Partly buried.	
2AF-1014	4-AF-2241	AF23-2	B-123-1	205302-03	4	2	16A	NO				Added for RI-ISI & Third Interval [98A00].
2AF-1014	4-AF-2241	AF23-2	B-123-1	205336-01	4	2	16A	NO				Added for RI-ISI & Third Interval [98A00].
2AF-1015		AF22-1		205336-01	6	3	54A	NO		VT-1		
2AF-1017				205336-01	4	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1018				205336-01	4	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1019				205336-01	4	3	54E	YES	IWD-1220(a)	VT-2 only	Partly buried.	
2AF-1020	4-AF-2221	AF23-2	B-121-1	205302-03	4	2	16A	NO				Added for RI-ISI & Third Interval [98A00].
2AF-1020	4-AF-2221	AF23-2	B-121-1	205336-01	4	2	16A	NO				Added for RI-ISI & Third Interval [98A00].
2AF-1021		AF22-1		205336-01	6	3	54A	NO		VT-1		
2AF-1022				205336-01	4	3	54E	YES	IWD-1220(a)	VT-2 only		
2AF-1023	4-AF-2211	AF23-2	B-120-1	205302-03	4	2	16A	NO				Added for RI-ISI & Third Interval [98A00].
2AF-1023	4-AF-2211	AF23-2	B-120-1	205336-01	4	2	16A	NO				Added for RI-ISI & Third Interval [98A00].
2AF-1024		AF22-1		205336-01	8	3	54A	NO		VT-1		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2AF-1025		AF22-1		205336-01	6	3	54A	NO		VT-1		
2AF-1026		AF22-5		205336-01	6	3	54D	NO		VT-1		(4" at pump)
2AF-1027				205336-01	2-1/2	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1028				205336-01	4	3	54E	YES	IWD-1220(a)	VT-2 only		
2AF-1029				205336-01	4	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1030				205336-01	4	3	54E	YES	IWD-1220(a)	VT-2 only		
2AF-1031				205336-01	4	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1032				205336-01	4	3	54E	YES	IWD-1220(a)	VT-2 only		
2AF-1033				205336-01	4	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1034				205336-01	4	3	54E	YES	IWD-1220(a)	VT-2 only		
2AF-1035		AF22-2		205336-01	12	3	54A	NO		VT-1		
2AF-1036		AF22-2		205336-01	10	3	54A	NO		VT-1		
2AF-1037		AF22-1 & AF22-2		205336-01	8	3	54A	NO		VT-1		
2AF-1038		AF22-2		205336-01	8	3	54A	NO		VT-1		
2AF-1039		AF22-1		205336-01	6	3	54A	NO		VT-1		
2AF-1040				205336-01	2	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1041				205336-01	2	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1042				205336-01	2	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1043				205336-01	2	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1044				205336-01	2-1/2	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1045				205336-01	2	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1046				205336-01	2-1/2	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1047				205336-01	4	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1048		AF22-3		205248-02	6	3	54C	NO		VT-1		
2AF-1048		AF22-3		205336-01	6	3	54C	NO		VT-1		
2AF-1049				205336-01	1	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1050				205336-01	3/4	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1051				205336-01	1/2	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1052				205336-01	1/2	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1053				205336-01	3/4	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1054				205336-01	3/4	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1055				205336-01	1/2	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1056				205336-01	1/2	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1057				205336-01	3/4	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1058				205336-01	3/4	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1059				205336-01	3/4	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1060				205336-01	1	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1061				205336-01	6	3	54A	YES	IWD-1220(c)	none		Open ended discharge piping excluded from VT-2 exam per IWC-5222(b)
2AF-1062				205336-01	8	3	54A	YES	IWD-1220(c)	none		Open ended discharge piping excluded from VT-2 exam per IWC-5222(b)

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2AF-1063				205336-01	8	3	54A	YES	IWD-1220(c)	none		Open ended discharge piping excluded from VT-2 exam per IWC-5222(b)
2AF-1064				205336-01	2	3	54A	YES	IWD-1220(d)	VT-2 only		
2AF-1072				205336-01	1	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1081				205336-01	1	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1094				205336-01	4	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1098				205336-01	1	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1110				205336-01	1	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-1141				205336-01	1-1/2	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1147				205336-01	1/2 & 1	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1148				205336-01	3/4	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-1157				205336-01	1	3	54C	YES	IWD-1220(a)	VT-2 only		
2AF-XXX1				205336-01	2	3	54D	YES	IWD-1220(a)	VT-2 only		
2AF-XXX2				205336-01	2	3	54C	YES	IWD-1220(a)	VT-2 only		
2BF-1015	16-BF-2221 & 14-BF-2221	SGF-2-3 SHL5	B-16-1	205302-03	16 & 14	2	16A	NO				
2BF-1017	16-BF-2231 & 14-BF-2231	SGF-2-3 SHL1	B-14-1	205302-03	16 & 14	2	16A	NO			Line partly encapsulated.	
2BF-1019	16-BF-2241 & 14-BF-2241	SGF-2-3 SHL4	B-13-1	205302-03	16 & 14	2	16A	NO				
2BF-1023	16-BF-2211 & 14-BF-2211	SGF-2-3 SHL3	B-17-1	205302-03	16 & 14	2	16A	NO				
2BR-1061				205329-02	4	2	48I	YES	IWC-1222(e)(1)	VT-2 only		
2BR-1068				205329-02	1		48U			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2BR-1069				205329-02	2		48U			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2BR-1074				205329-02	2		48U			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2BR-1075				205329-02	2		48U			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2BR-1076				205329-02	2		48U			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2BR-1279				205329-02	4	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2BR-XXX1				205329-01	3/4	3	53A	YES	IWD-1220(a)	VT-2 only		
2CA-1064				205347-01	2	2	38A	YES	IWC-1222(a)(1)	VT-2 only		
2CA-1064				205347-03	2	2	38A	YES	IWC-1222(a)(1)	VT-2 only		
2CA-1065				205347-01	2	2	38A	YES	IWC-1222(a)(1)	VT-2 only		
2CA-1065				205347-03	2	2	38A	YES	IWC-1222(a)(1)	VT-2 only		
2CA-XXX1				205347-01	2	2	38A	YES	IWC-1222(a)(1)	VT-2 only	Airlock - 100'el.	
2CA-XXX2				205347-01	2	2	38A	YES	IWC-1222(a)(1)	VT-2 only	Airlock - 130'el.	
2CC-1000				205331-01	4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1001				205331-01	4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1002		CC22-2		205331-01	18 & 12	3	52A	NO		VT-1		
2CC-1003		CC22-1		205331-01	18 & 12	3	52A	NO		VT-1		
2CC-1004		CC22-1		205331-01	16	3	52A	NO		VT-1		
2CC-1004		CC22-1		205331-02	16	3	52A	NO		VT-1		
2CC-1005		CC22-1 CC22-2		205331-01	12	3	52A	NO		VT-1		
2CC-1006		CC22-1		205331-01	12	3	52A	NO		VT-1		
2CC-1007		CC22-1		205331-01	12	3	52A	NO		VT-1		
2CC-1012		CC22-2		205331-01	10 & 12	3	52A	NO		VT-1		
2CC-1012		CC22-2		205331-02	16	3	52A	NO		VT-1		
2CC-1013		CC22-2		205331-01	10 & 12	3	52A	NO		VT-1		
2CC-1014		CC22-2		205331-01	10 & 12	3	52A	NO		VT-1		
2CC-1015		CC22-2		205331-01	24 & 16	3	52A	NO		VT-1		
2CC-1018		CC22-1		205331-01	24	3	52A	NO		VT-1		
2CC-1020		CC22-1 CC22-3		205331-01	16	3	52A	NO		VT-1		
2CC-1021		CC22-2 CC22-3		205331-01	24 & 16	3	52A	NO		VT-1		
2CC-1022		CC22-1		205331-01	18 & 12	3	52A	NO		VT-1		
2CC-1023		CC22-2		205331-01	18 & 12	3	52A	NO		VT-1		
2CC-1028				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1029				205331-01	3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1030				205331-01	3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1031				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1032				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1034				205331-01	3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1035				205331-01	3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1036				205331-01	3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1038				205331-01	3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1039				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CC-1040				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1041				205331-01	3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1042				205331-01	3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1043				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1044				205331-01	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1045				205331-01	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1046				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1048				205331-03	1-1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1049				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1050				205331-01	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1052				205331-01	2-1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1053				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1054				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1055				205331-01	2-1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1056				205331-01	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1057				205331-01	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1058				205331-01	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1059				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1060				205331-03	1-1/2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1061				205331-03	2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1062				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1063				205331-01	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1064				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1066				205331-01	3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1067				205331-01	3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1068				205331-01	3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1069				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1070				205331-01	3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1072				205331-01	1-1/2 & 1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1073				205331-01	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1074				205331-01	1-1/2 & 1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1075				205331-01	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1076				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1077				205331-01	1-1/4 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1078				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1081				205331-01	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1082				205331-01	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1083				205331-01	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1084		CC22-3		205331-02	12	3	52A	NO		VT-1		
2CC-1086		CC22-3		205331-02	8	3	52A	NO		VT-1		
2CC-1087				205331-02	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1090				205331-02	4, 3 & 1-1/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1091				205331-02	1-1/4, 1 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1092				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1093		CC22-5 CC22-6		205331-02	8	3	52A	NO		VT-1		
2CC-1094		CC22-5		205331-02	16	3	52A	NO		VT-1		
2CC-1095		CC22-5		205331-02	10	3	52A	NO		VT-1		
2CC-1096		CC22-5		205331-02	10	3	52A	NO		VT-1		
2CC-1097				205331-02	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1098				205331-02	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1099		CC22-3		205331-02	6	3	52A	NO		VT-1		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CC-1100				205331-02	4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1101		CC22-5		205331-02	6	3	52A	NO		VT-1		
2CC-1103		CC22-5		205331-02	6	3	52A	NO		VT-1		
2CC-1104				205331-02	1-1/4 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1105				205331-02	1-1/4 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1106				205331-02	1-1/4 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1107				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1108				205331-02	1-1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1109				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1110		CC22-3		205331-02	6	3	52A	NO		VT-1		
2CC-1111				205331-02	4	3	52A	YES	IWD-1220(a)	VT-2 only		Added exempt line per CC22/3. EJM 8/1/02
2CC-1112				205331-02	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1113				205331-02	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1117				205331-02	3	3	52A	YES	IWD-1220(a)	VT-2 only		Corrected to 3" exempt per CC22/5. EJM 8/1/02
2CC-1118		CC22-3		205331-02	6	3	52A	NO		VT-1		
2CC-1121				205331-02	3	3	52A	YES	IWD-1220(a)	VT-2 only		Corrected to 3" exempt per CC22/5. EJM 8/1/02
2CC-1121		CC22-5		205331-02	6	3	52A	NO		VT-1		
2CC-1129		CC22-3		205331-02	6	3	52A	NO		VT-1		
2CC-1130		CC22-6		205331-02	6	3	52A	NO		VT-1		
2CC-1131				205331-02	1-1/2 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1132				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1133				205331-02	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1134				205331-02	1-1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1135				205331-02	1-1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1136				205331-02	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1137				205331-02	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1138				205331-02	1-1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1139				205331-02	1-1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1140				205331-02	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1141				205331-02	2, 1-1/4 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1142				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1143				205331-02	2, 1-1/2, 1-1/4 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1144				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1145		CC22-3 CC23-1		205331-02	6	3	52A	NO		VT-1		
2CC-1145		CC22-3 CC23-1		205331-03	6	3	52A	NO		VT-1		
2CC-1146				205331-03	6	2	52B	YES	IWC-1222(c)	VT-2 only		
2CC-1147		CC23-1		205331-03	6	3	52A	NO		VT-1		
2CC-1148		CC23-1 CC23-3		205331-03	6	3	52A	NO		VT-1		
2CC-1149				205331-03	4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1150				205331-03	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1151				205331-03	2 & 1-1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1152				205331-03	1 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1153				205331-03	2 & 1-1/2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1154				205331-03	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1155				205331-03	1 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CC-1156				205331-03	2 & 1-1/2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1157				205331-03	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1158				205331-03	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1160				205331-03	1 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1161				205331-03	2 & 1-1/2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1162				205331-03	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1163				205331-03	1 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1164				205331-03	2 & 1-1/2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1165				205331-03	4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1166				205331-03	2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1167		CC23-2 CC23-5		205331-03	6	3	52A	NO		VT-1		
2CC-1168				205331-03	3	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1169				205331-03	6	2	52B	YES	IWC-1222(c)	VT-2 only		
2CC-1170				205331-03	3	2	52D	YES	IWC-1222(a)(1)	VT-2 only		
2CC-1171				205331-03	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1172				205331-03	4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1174				205331-03	1-1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1175				205331-03	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1176				205331-03	1 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1177				205331-03	2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1178				205331-03	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1179				205331-03	1 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1180				205331-03	2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1181				205331-03	3	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1182				205331-03	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1183				205331-03	1 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1185				205331-03	2 & 1-1/2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1186				205331-03	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1187				205331-03	1 & 3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1188				205331-03	2 & 1-1/2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1189				205331-03	1-1/2 & 3/4	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1190				205331-03	1-1/2 & 3/4	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1191				205331-03	1-1/2 & 3/4	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1192				205331-03	1-1/2 & 3/4	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1193		CC22-5 CC23-5		205331-02	6	3	52A	NO		VT-1		
2CC-1193		CC22-5 CC23-5		205331-03	6	3	52A	NO		VT-1		
2CC-1194				205331-03	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1195				205331-03	3	2	52B	YES	IWC-1222(a)(1)	VT-2 only		
2CC-1198				205331-03	3 & 4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1200				205331-03	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1202				205331-03	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1203				205331-03	3	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1204				205331-03	3/4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1205				205331-03	3/4	2	52B	YES	IWC-1222(a)(1)	VT-2 only		
2CC-1208				205331-03	1 & 3/4	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1207				205331-03	1 & 3/4	2	52D	YES	IWC-1222(a)(1)	VT-2 only		
2CC-1210				205331-01	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1211				205331-01	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1338				205331-03	1-1/2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1339				205331-03	2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1340				205331-03	4	3	52A	YES	IWD-1220(a)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CC-1342				205331-03	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1343				205331-03	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1344				205331-03	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1345				205331-03	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1348				205331-03	4	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1348				205331-03	1-1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1353				205331-03	1-1/2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1356				205331-03	1-1/2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1357				205331-03	2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1373				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1406				205331-03	1-1/2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1408				205331-03	1-1/2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1414				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1419				205331-01	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1420				205331-01	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1421				205331-01	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1422				205331-01	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1423				205331-01	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1438				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1438				205331-03	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1439				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1439				205331-03	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1440				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1441				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1442				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1443				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1444				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1445				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1446				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1447				205331-02	1	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1473				205331-03	2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1474				205331-03	1-1/2	3	52C	YES	IWD-1220(a)	VT-2 only		
2CC-1475				205331-03	3	2	52B	YES	IWC-1222(a)(1)	VT-2 only		
2CC-1476				205331-01	2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1477				205331-01	1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1478				205331-01	1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1479				205331-01	1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1480				205331-01	1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1481				205331-01	1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1482				205331-01	1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1483				205331-01	1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CC-1484				205331-01	1/2	3	52A	YES	IWD-1220(a)	VT-2 only		
2CH-AII				205216-02	AI	3	27C	YES	IWD-1220(c)	VT-2 only		
2CH-AII				205216-03	AI	3	27C	YES	IWD-1220(c)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number in Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CH-AII				205216-08	AI	3				none	Out of Scope - see Justification	Freon lines and components are excluded per NRC Reg. Guide 1.26, Rev.3 (Draft), Regulatory Position C.2. Note: the components are listed in SAP as safety related, seismic 1, nuclear class 3, QA required.
2CS-1001		CS22-1		205335-01	10	3	50A	NO		VT-1		
2CS-1003		CS22-1		205335-01	8	3	50B	NO		VT-1	No supports or welded attachments.	
2CS-1004	8-CS-2227	CS22-2, CS23-1	B-79-1 B-79-2	205335-01	8	2	50C	NO			Base Material Thickness < 3/8"	
2CS-1005				205335-01	8	2	50C	YES	IWC-1222(d)	none		Open ended discharge piping excluded from VT-2 exam per IWC-5222(b)
2CS-1006				205335-01	8	2	50C	YES	IWC-1222(d)	none		Open ended discharge piping excluded from VT-2 exam per IWC-5222(b)
2CS-1007		CS22-1		205335-01	10	3	50A	NO		VT-1		
2CS-1009		CS22-1		205335-01	8	3	50B	NO		VT-1	No supports or welded attachments.	
2CS-1010	8-CS-2229, 8-CS-2225	CS22-3, CS23-2	B-96-1 B-96-2	205335-01	8	2	50C	NO			Base Material Thickness < 3/8"	
2CS-1011				205335-01	8	2	50C	YES	IWC-1222(d)	none		Open ended discharge piping excluded from VT-2 exam per IWC-5222(b)
2CS-1012				205335-01	8	2	50C	YES	IWC-1222(d)	none		Open ended discharge piping excluded from VT-2 exam per IWC-5222(b)
2CS-1013				205335-01	3	3	50D	YES	IWD-1220(a)	VT-2 only		
2CS-1014				205335-01	3	3	50A	YES	IWD-1220(a)	VT-2 only		
2CS-1015				205335-01	3	3	50D	YES	IWD-1220(a)	VT-2 only		
2CS-1016				205335-01	3	3	50A	YES	IWD-1220(a)	VT-2 only		
2CS-1017				205335-01	3	3	50D	YES	IWD-1220(a)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CS-1018				205335-01	3	3	50B	YES	IWD-1220(a)	VT-2 only		
2CS-1019				205335-01	3	3	50A	YES	IWD-1220(a)	VT-2 only		
2CS-1020				205335-01	2	3	50B	YES	IWD-1220(a)	VT-2 only		
2CS-1021				205335-01	2	3	50B	YES	IWD-1220(a)	VT-2 only		
2CS-1031				205335-01	2	3	50A	YES	IWD-1220(a)	VT-2 only		
2CS-1032				205335-01	2	3	50D	YES	IWD-1220(a)	VT-2 only		
2CS-1034	8-CS-2225	CS23-02	B-18-2	205335-01	8	2	50C	NO			Base Material Thickness < 3/8"	
2CS-1035				205335-01	1-1/4	2	50C	YES	IWC-1222(a)(1)	VT-2 only		
2CS-1036				205335-01	1	2	50C	YES	IWC-1222(a)(1)	VT-2 only		
2CS-1037				205335-01	1-1/4	2	50C	YES	IWC-1222(a)(1)	VT-2 only		
2CS-1038				205335-01	1	3	50D	YES	IWD-1220(a)	VT-2 only		
2CS-1038				205335-01	1	2	50C	YES	IWC-1222(a)(1)	VT-2 only		
2CS-1040	8-CS-2215	CS23-1	B-18-1	205335-01	8	2	50C	NO			Base Material Thickness < 3/8"	
2CS-1041				205335-01	8	2	50C	YES	IWC-1222(a)(1)	VT-2 only	Base Material Thickness < 3/8"	
2CS-1042				205335-01	8	2	50C	YES	IWC-1222(a)(1)	VT-2 only	Base Material Thickness < 3/8"	
2CS-1043				205335-01	3/4	3	50D	YES	IWD-1220(a)	VT-2 only		
2CS-1047				205335-01	3	3	50B	YES	IWD-1220(a)	VT-2 only		
2CS-1048				205335-01	3	3	50A	YES	IWD-1220(a)	VT-2 only		
2CS-1051				205335-01	1	3	50D	YES	IWD-1220(a)	VT-2 only		
2CS-1054				205335-01	3/4	3	50D	YES	IWD-1220(a)	VT-2 only		
2CS-1061				205335-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2CS-1068				205335-01	3	3	50B	YES	IWD-1220(a)	VT-2 only		
2CS-1067				205334-01	2	3	49A	YES	IWD-1220(a)	VT-2 only	49A or 50B ??	
2CS-1067				205335-01	2	3	50B	YES	IWD-1220(a)	VT-2 only		
2CS-1071				205335-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2CS-1082				205335-01	1	3	50D	YES	IWD-1220(a)	VT-2 only		
2CS-1084				205335-01	3	3	50D	YES	IWD-1220(a)	VT-2 only		
2CS-1090				205335-01	3/4	2	50C	YES	IWC-1222(a)(1)	VT-2 only		
2CS-1104				205335-01	3/4	2	50C	YES	IWC-1222(a)(1)	VT-2 only		
2CS-1281				205301-01	1	2	44D	YES	IWC-1222(a)(1)	VT-2 only		ties to 1"-2CS-1038 on 205335-01
2CV-1000	12-CV-1243	CV23-2	A-10-1	205301-03	12	1	44A	NO				
2CV-1000	3-CV-1243	CV23-2	A-10-1	205301-03 205328-02	3	1	44A	NO				Shown as line 2CV-1512 on 205328-02.
2CV-1001				205328-02	3	2	48C	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1002				205328-02	3	2	48C	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1003				205328-02	2	2	48F	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1004				205328-02	2-1/2	2	48F	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1005				205328-02	2		48E			VT-2 only	A/E/V	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CV-1006				205328-02	3		48E			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1007				205328-02	2		48E			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1008				205328-02	3		48G			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1013				205328-01	3		48H			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1014				205328-01	2		48H			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1015				205328-01	2		48H			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1016				205328-01	3		48H			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1017				205328-01	3	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1018				205328-01	4	2	48I	YES	IWC-1222(a)(1)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CV-1019				205328-01	4	2	48J	YES	IWC-1222(a)(1)	VT-2 only		The suction flowpath is from the RWST through the 2SJ1 and 2SJ2 valves which open upon SI Actuation signal. Therefore, this line is not part of the HPSI suction flowpath.
2CV-1019				205328-02	4	2	48J	YES	IWC-1221(a)(1)	VT-2 only		This line is not considered part of the HPSI flowpath because 2CV40 and 2CV41 isolate upon SI Injection signal. Additionally, the suction flowpath is from the RWST through the 2SJ1 and 2SJ2 valves which open upon SI Actuation signal. Therefore, this line is not part of the HPSI suction flowpath.
2CV-1020	8-CV-2201	CV22-06 06 RH22-	B-20-2 B-20-3	205328-02	8	2	48J	NO			HPSI	

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CV-1020	8-CV-2201	CV22-06 RH22-06	B-20-2	205334-01	4	2	48J	YES	IWC-1221(a)(1)	VT-2 only		The suction flowpath is from the RWST through the 2SJ1 and 2SJ2 valves which open upon SI Actuation signal. Therefore, this line is not part of the HPSI suction flowpath.
2CV-1021				205328-02	4	2	48J	YES	IWC-1221(a)(1)	VT-2 only		This portion of the line is not part of the HPSI flowpath based on Safety Evaluation S00-019 and change packages 80029150 & 80029155.
2CV-1022	3-CV-2258 CV-2271 CV-2272	3- CV22-11 3-	B-87-1 B-87-3	205328-02	3	2	48A	NO			HPSI	
2CV-1022	3-CV-2258	CV22-11	B-87-2	205328-02	3	2	48A	NO			HPSI	
2CV-1022				205328-02	3	2	48A	YES	IWC-1221(a)(1)	VT-2 only		This portion of the line is not part of the HPSI flowpath based on Safety Evaluation S00-019 and change packages 80029150 & 80029155.
2CV-1023	2-CV-2213	CV22-60	B-98-1	205328-02	2	2	48A	NO			HPSI	
2CV-1024	2-CV-2254	CV22-60	B-97-1	205328-02	2	2	48A	NO			HPSI	
2CV-1025	3-CV-2251	CV22-11, CV23-2	B-89-1 B-89-2	205328-02	3	2	48A	NO			HPSI	Line partly encapsulated
2CV-1026	2-CV-2214	CV23-17	B-93-1	205328-02	2	2	48A	NO			HPSI	
2CV-1027	2-CV-2214	CV23-17	B-93-1	205328-02	2	2	48A	NO			HPSI	
2CV-1028	2-CV-2214	CV23-17	B-93-1	205328-02	2	2	48A	NO			HPSI	
2CV-1028	2-CV-2214	CV23-17	B-93-1	205328-03	2	2	48A	NO			HPSI	
2CV-1029		CV23-17		205328-03	2		48B				AE/VT Out of Scope-NSR	Part of SPT CV-002
2CV-1030		CV23-17		205328-03	1-1/2		48B				AE/VT Out of Scope-NSR	Part of SPT CV-002

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CV-1031	2-CV-2224	CV23-14	B-91-1	205328-02	2	2	48A	NO			HPSI	
2CV-1032	2-CV-2224	CV23-14	B-91-1	205328-02	1	2	48A	YES	RWC-1221(b)(1)		HPSI	
2CV-1033	2-CV-2224	CV23-14	B-91-1	205328-02	2	2	48A	NO			HPSI	
2CV-1033	2-CV-2224	CV23-14	B-91-1	205328-03	2	2	48A	NO			HPSI	
2CV-1034		CV23-14		205328-03	2		48B				AE/VT Out of Scope-NSR	Part of SPT CV-002
2CV-1035		CV23-14		205328-03	1-1/2		48B				AE/VT Out of Scope-NSR	Part of SPT CV-002
2CV-1036	2-CV-2234	CV23-6	B-92-1	205328-02	2	2	48A	NO			HPSI	
2CV-1037	2-CV-2234	CV23-6	B-92-1	205328-02	1	2	48A	YES	RWC-1221(b)(1)		HPSI	
2CV-1038	2-CV-2234	CV23-6	B-92-1	205328-02	2	2	48A	NO			HPSI	
2CV-1038	2-CV-2234	CV23-6	B-92-1	205328-03	2	2	48A	NO			HPSI	
2CV-1039		CV23-6		205328-03	2		48B				AE/VT Out of Scope-NSR	Part of SPT CV-002
2CV-1040		CV23-6		205328-03	1-1/2		48B				AE/VT Out of Scope-NSR	Part of SPT CV-002
2CV-1041	2-CV-2244	CV23-12	B-90-1	205328-02	2	2	48A	NO			HPSI	
2CV-1042	2-CV-2244	CV23-12	B-90-1	205328-02	1	2	48A	YES	RWC-1221(b)(1)		HPSI	
2CV-1043	2-CV-2244	CV23-12	B-90-1	205328-02	2	2	48A	NO			HPSI	
2CV-1043	2-CV-2244	CV23-12	B-90-1	205328-03	2	2	48A	NO			HPSI	
2CV-1044		CV23-11, CV23-12		205328-03	2		48B				AE/VT Out of Scope-NSR	Part of SPT CV-002
2CV-1045		CV23-11, CV23-12		205328-03	1-1/2		48B				AE/VT Out of Scope-NSR	Part of SPT CV-002
2CV-1056				205328-02	4	2	48O	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1056				205328-03	4	2	48O	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1057				205328-02	4	2	48N	YES	RWC-1222(a)(1)	VT-2 only	Upgraded to Class 2 for ISI	Non-Safety Related piping upgraded for ISI. Reference NC.ER-TM.ZZ-0001(Q), Rev.0, titled "PSEG Nuclear Repair Program", Page 15. Piping remains design classified as Nuclear Class II, non-safety related (NSR).
2CV-1058				205328-02	3	2	48N	YES	RWC-1222(a)(1)	VT-2 only	Upgraded to Class 2 for ISI	See Justification for Line 2CV-1057.
2CV-1059				205328-02	3	2	48N	YES	RWC-1222(a)(1)	VT-2 only	Upgraded to Class 2 for ISI	See Justification for Line 2CV-1057.
2CV-1060				205328-02	4	2	48N	YES	RWC-1222(a)(1)	VT-2 only	Upgraded to Class 2 for ISI	See Justification for Line 2CV

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CV-1060				205328-02	2	2	48N	YES	IWC-1222(a)(1)	VT-2 only	Upgraded to Class 2 for ISI	See Justification for Line 2CV-1057.
2CV-1062				205328-01	4	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1062				205328-02	4	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1063	3-CV-2258	CV22-11	B-87-2	205328-02	3	2	48A	NO			HPSI	HPSI up to 2CV69 valve. Class 2 exempt by size between valves 2CV69 and 2CV74.
2CV-1063	3-CV-2255	CV23-02	B-95-1	205328-02	3	2	48A	NO			HPSI	HPSI up to 2CV69 valve. Class 2 exempt by size between valves 2CV69 and 2CV74.
2CV-1064		CV23-2		205328-02	3		48B				AE/VT Out of Scope-NSR	Part of SPT RC-001
2CV-1065		CV23-2		205328-02	3		48B				AE/VT Out of Scope-NSR	Part of SPT RC-001
2CV-1068	3-CV-1231	CV23-2	A-13-1	205301-02	3	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2CV-1068	3-CV-1231	CV23-2	A-13-1	205328-02	3	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2CV-1067				205328-02	2	2	48F	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1068				205328-02	2	2	48F	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1069				205328-02	2	2	48F	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1070				205328-02	2		48E			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CV-1071				205328-02	2		48G			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1090				205328-01	2		48P				AE/VT Out of Scope-NSR	Part of SPT CV-001
2CV-1091				205328-01	2		48P				AE/VT Out of Scope-NSR	Part of SPT CV-001
2CV-1121	6-CV-2211	CV22-6	B-24-1	205328-02	6	2	48J	NO			HPSI	
2CV-1123	4-CV-2258, 3-CV-2260	CV22-11	B-88-2	205328-02	4 & 3	2	49G	NO			HPSI	
2CV-1124	6-CV-2212	CV22-6	B-23-1	205328-02	6	2	48J	NO			HPSI	
2CV-1126	4-CV-2257, 3-CV-2257	CV22-11	B-88-1	205328-02	4 & 3	2	49G	NO			HPSI	
2CV-1127	3-CV-2257	CV22-11	B-88-1	205328-02	3	2	48A	NO			HPSI	
2CV-1129	3-CV-2260	CV22-11	B-88-2	205328-02	3	2	48A	NO			HPSI	
2CV-1131	2-CV-2212	CV22-53	B-102-1	205328-02	2	2	49G	NO			HPSI	
2CV-1132	2-CV-2217	CV22-53	B-102-1	205328-02	2	2	49G	NO			HPSI	
2CV-1133	4-CV-2257	CV22-11	B-88-1	205328-02	3 & 4	2	49G	NO			HPSI	
2CV-1134	3-CV-2259	CV22-11	B-88-1	205328-02	3	2	49G	NO			HPSI	
2CV-1135	3-CV-2259	CV22-11	B-88-1	205328-02	3	2	48A	NO			HPSI	
2CV-1136				205328-02	2	2	48N	YES	IWC-1222(a)(1)	VT-2 only	Upgraded to Class 2 for ISI	See Justification for Line 2CV-1057.
2CV-1137	2-CV-2218	CV22-53	B-101-1	205328-02	2	2	49G	NO			HPSI	
2CV-1138	3-CV-2210	CV22-53	B-101-1	205328-02	3	2	49G	NO			HPSI	
2CV-1139	2-CV-2219	CV22-53	B-101-1	205328-02	2	2	49G	NO			HPSI	
2CV-1141	3-CV-2258	CV22-11	B-87-2	205328-02	3	2	48A	NO			HPSI	
2CV-1142	2-CV-2254	CV22-60	B-97-1	205328-02	2	2	48A	NO			HPSI	
2CV-1143	2-CV-2216	CV22-60	B-100-1	205328-02	2	2	48A	NO			HPSI	
2CV-1153	2-CV-2256	CV23-2	B-95-1	205328-02	3	2	48A	NO			HPSI	
2CV-1154		CV23-26		205328-02	2		48B				AE/VT Out of Scope-NSR	Part of SPT RC-001
2CV-1156	2-CV-1275	RC23-13	A-15-1 A-15-2	205301-01	2	1	44A	NO				
2CV-1156	2-CV-1275	RC23-13	A-15-1 A-15-2	205328-02	2	1	44A	NO				
2CV-1157		CV23-2		205328-02	3		48B				AE/VT Out of Scope-NSR	Part of SPT RC-001
2CV-1158	3-CV-1241	CV23-2	A-12-1	205301-03	3	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CV-1158	3-CV-1241	CV23-2	A-12-1	205328-02	3	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2CV-1159				205328-02	4	2	48N	YES	IWC-1222(a)(1)	VT-2 only	Upgraded to Class 2 for ISI	See Justification for Line 2CV-1057.
2CV-1161				205328-02	3	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1162				205328-02	2	2	48N	YES	IWC-1222(a)(1)	VT-2 only	Upgraded to Class 2 for ISI	See Justification for Line 2CV-1057.
2CV-1163				205328-02	2		48G			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1164				205328-02	3	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1165				205328-01	4	2	48N	YES	IWC-1222(a)(1)	VT-2 only	Upgraded to Class 2 for ISI	See Justification for Line 2CV-1057.
2CV-1165				205328-02	4	2	48N	YES	IWC-1222(a)(1)	VT-2 only	Upgraded to Class 2 for ISI	See Justification for Line 2CV-1057.
2CV-1166				205328-01	4	2	48J	YES	IWC-1222(a)(1)	VT-2 only		The suction flowpath is from the RWST through the 2SJ1 and 2SJ2 valves which open upon SI Actuation signal. Therefore, this line is not part of the HPSI suction flowpath.
2CV-1167				205328-01	3	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1168				205328-01	3 & 2	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1169				205328-01	1	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1170				205328-01	2	2	48C	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1171				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1172				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		

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Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CV-1173				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1174				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1175				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1176				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1178				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1179				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1183				205328-03	3/4	2	48O	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1184				205328-01	1	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1185				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1186				205328-01	1	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1187				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1188				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1190				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1191				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1192				205328-01	2	2	48J	YES	RWC-1222(a)(1)	VT-2 only		The suction flowpath is from the RWST through the 2SJ1 and 2SJ2 valves which open upon SI Actuation signal. Therefore, this line is not part of the HPSI suction flowpath.
2CV-1193				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1194				205328-01	2	2	48J	YES	RWC-1222(a)(1)	VT-2 only		The suction flowpath is from the RWST through the 2SJ1 and 2SJ2 valves which open upon SI Actuation signal. Therefore, this line is not part of the HPSI suction flowpath.
2CV-1195				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1196				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1197				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1198				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		
2CV-1199				205328-01	2	2	48L	YES	RWC-1222(a)(1)	VT-2 only		

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Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CV-1200				205328-01	2	2	48J	YES	IWC-1222(a)(1)	VT-2 only		The suction flowpath is from the RWST through the 2SJ1 and 2SJ2 valves which open upon SI Actuation signal. Therefore, this line is not part of the HPSI suction flowpath.
2CV-1201				205328-01	1	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1202				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1203				205328-01	2		48H			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1204				205328-02	2	2	48F	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1205				205328-02	2	2	48F	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1214				205328-02	2	2	48C	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1217				205328-02	2		48G			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1218		CV23-26		205328-02	3/4	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2CV-1219		CV23-26		205328-02	3/4		48B				AE/VT Out of Scope-NSR	Part of SPT RC-001
2CV-1223				205301-01	3	2	44D	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1223				205328-02	3	2	44D	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1224				205328-02	2		48E			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1231				205246-02	2	2	48C	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1232				205328-02	2	2	48F	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1233				205328-02	2-1/2	2	48F	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1236				205328-01	2	2	48I	YES	IWC-1222(a)(1)	VT-2 only		

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Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CV-1237				205328-01	3		48H			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1253				205328-01	2		48H			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2CV-1257				205329-02	4	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1263				205328-01	3	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1269				205328-02	1	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1275				205328-01	3/4	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1277				205328-01	1	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1280				205328-02	3/4	2	48J	YES	IWC-1221(b)(1)	VT-2 only	HPSI-Exempt	
2CV-1281				205301-01	1	2	44D	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1281				205328-02	1	2	44D	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1292				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1306	3-CV-2211	CV22-53	B-102-1	205328-02	3	2	49G	NO			HPSI	
2CV-1316				205328-02	3/4	2	48J	YES	IWC-1221(b)(1)	VT-2 only	HPSI-Exempt	
2CV-1317				205328-02	1	2	48I	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1461				205328-02	2	2	48C	YES	IWC-1221(a)(1)	VT-2 only		
2CV-1464				205328-02	2 & 1	2	48C	YES	IWC-1221(a)(1)	VT-2 only		
2CV-1465				205328-02	1		48D				AE/VT Out of Scope-NSR	Part of SPT RC-001
2CV-1466				205328-02	1		53E				AE/VT Out of Scope-NSR	Part of SPT RC-001
2CV-1467				205328-02	1		48N				AE/VT Out of Scope-NSR	Part of SPT RC-001
2CV-1468				205328-02	3/4		48N				AE/VT Out of Scope-NSR	Part of SPT RC-001
2CV-1473				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1479				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1480				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1481				205328-01	2		48P				Out of Scope-NSR	

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CV-1505				205328-01	1	2	48J	YES	IWC-1222(a)(1)	VT-2 only		The suction flowpath is from the RWST through the 2SJ1 and 2SJ2 valves which open upon SI Actuation signal. Therefore, this line is not part of the HPSI suction flowpath.
2CV-1506				205328-01	3/4	2	48J	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1509				205301-01	3	2	44D	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1509				205328-03	3	2	44D	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1512	3-CV-1243	CV23-2	A-10-1	205328-02	3	1	44A	NO				Part of the letdown line. See line 2CV-1000.
2CV-1516				205328-01	3/4	2	48J	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1523				205328-01	1	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1524				205328-01	3/4	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1525				205328-01	3/4	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1529				205328-01	1	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1533				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1536				205328-01	1	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1538				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1539				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1540				205328-01	2	3	49A	YES	IWD-1220(a)	VT-2 only		
2CV-1540				205334-01	2	3	49A	YES	IWD-1220(a)	VT-2 only		
2CV-1541				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1541				205329-02	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1542				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1583				205328-01	3/4	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1585				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1592				205328-01	3/4	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1593				205328-01	2	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1619				205328-01	2	2	48J	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1620				205328-01	2	2	48J	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1621				205328-01	2	2	48J	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1622				205328-01	2	2	48J	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1623				205328-01	1	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1624				205328-01	1	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1630				205328-01	1	2	48L	YES	IWC-1222(a)(1)	VT-2 only		
2CV-1631				205328-01	1	2	48L	YES	IWC-1222(a)(1)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2CV-1633				205328-01	2	2	48J	YES	IWC-1222(a)(1)	VT-2 only		The suction flowpath is from the RWST through the 2SJ1 and 2SJ2 valves which open upon SI Actuation signal. Therefore, this line is not part of the HPSI suction flowpath.
2CV-1640				205334-01	2	3	49A	YES	IWD-1220(a)	VT-2 only		
2CV-1640	3-CV-2251	CV22-11	B-89-1	205328-02	3	2	48A	NO			HPSI	
2DR-1001				205246-02	6	NSR	20C	N/A		N/A		Out of Scope - NSR
2DR-1002				205336-01	6	NSR	20C	N/A		N/A		Out of Scope - NSR
2DR-1004				205246-02	4	2	20A	YES	IWC-1222(a)(1)	VT-2 only		
2FP-XXX1				205222-02	4	2	27A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1000				205325-01	2	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1001				205325-01	2	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1002				205325-01 & 205325-02	3	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1006				205325-01	2	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1007				205325-01	2	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1008				205325-01 & 205325-02	3	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1012				205325-01	2	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1013				205325-01	2	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1014				205325-01 & 205325-02	3	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1018				205325-01	2	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1019				205325-01	2	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1020				205325-01 & 205325-02	3	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1047				205325-01	1	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1048				205325-01	1	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1049				205325-01	1	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2GB-1050				205325-01	1	2	59A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1000	32-MS-2211	MS23-01	B-33-1	205303-01	32	2	12A	NO				
2MS-1001	30-MS-2211	MS23-01	B33-1	205303-01	30	2	12A	NO				
2MS-1002	32-MS-2211	MS23-01	B-33-2	205303-01	32	2	12A	NO				
2MS-1003	32-MS-2211	MS23-01	B-33-2	205303-01	32	2	12A	NO				
2MS-1004	34-MS-2211	MS23-01	B-29-1 B-41-1	205303-01	34	2	12A	NO				
2MS-1008	32-MS-2231	MS23-04	B-31-1	205303-01	32	2	12A	NO				
2MS-1009	30-MS-2231	MS23-04	B-31-1	205303-01	30	2	12A	NO				
2MS-1010	32-MS-2231	MS23-04	B-31-2	205303-01	32	2	12A	NO				
2MS-1011	32-MS-2231	MS23-04	B-31-2	205303-01	32	2	12A	NO				

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2MS-1012	34-MS-2231	MS23-04	B-27-1 B-39-1	205303-01	34	2	12A	NO				
2MS-1016	32-MS-2241	MS23-05	B-30-1	205303-02	32	2	12A	NO				
2MS-1017	30-MS-2241	MS23-05	B-30-1	205303-02	30	2	12A	NO				
2MS-1018	32-MS-2241	MS23-05	B-30-2	205303-02	32	2	12A	NO				
2MS-1019	32-MS-2241	MS23-05	B-30-2	205303-02	32	2	12A	NO				
2MS-1020	34-MS-2241	MS23-05	B26-1 B38-1	205303-02	34	2	12A	NO				
2MS-1024	32-MS-2221	MS23-03	B-32-1	205303-02	32	2	12A	NO				
2MS-1025	30-MS-2221	MS23-03	B-32-1	205303-02	30	2	12A	NO				
2MS-1026	32-MS-2221	MS23-03	B-32-2	205303-02	32	2	12A	NO				
2MS-1027	32-MS-2221	MS23-03	B-32-2	205303-02	32	2	12A	NO				
2MS-1028	34-MS-2221	MS23-03	B28-1 B40-1	205303-02	34	2	12A	NO				
2MS-1056	6-MS-2211	MS22-01	B-45-1	205303-01	6	2	12A	NO			Partly Encapsulated	
2MS-1058	6-MS-2231	MS22-01 MS22-03	B-43-1 B-43-2	205303-01	6	2	12A	NO			Partly Encapsulated	
2MS-1059		MS22-3		205303-01	6	3	12C	NO		VT-1		
2MS-1060				205303-01	4	3	12C	YES	IWD-1220(a)	VT-2 only		
2MS-1061		MS22-3		205303-01	6	3	12D	NO		VT-1	Line is excluded from VT-2 exam per IWC-5222(b)	WAT = 240 per Pipe spec. This does not satisfy exemption criteria operating temp. limit of 200 for IWD-1220(c).
2MS-1061				205303-01	2	3	12D	YES	IWD-1220(a)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1062	8-MS-2212	MS23-01	B-41-1	205303-01	8	2	12A	NO				
2MS-1063	8-MS-2211	MS23-01	B-41-1	205303-01	8	2	12A	NO				
2MS-1064	8-MS-2214	MS23-01	B-41-1	205303-01	8	2	12A	NO				
2MS-1065	8-MS-2213	MS23-01	B-41-1	205303-01	8	2	12A	NO				
2MS-1066	8-MS-2215	MS23-01	B-41-1	205303-01	8	2	12A	NO				
2MS-1067				205303-01	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1068				205303-01	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1069				205303-01	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1070				205303-01	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1071				205303-01	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NOE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2MS-1072				205303-01	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note in Justification field. Ref. Dwg 218218	Note: This line is actually part of the main steam safety valve strut. By design, main steam is channeled through the strut to minimize thermal loading on the safety valve discharge nozzle.
2MS-1073				205303-01	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1072	
2MS-1074				205303-01	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1072	
2MS-1075				205303-01	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1072	
2MS-1076				205303-01	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1072	
2MS-1078				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1079				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1080				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1081				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1082				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1083				205303-01	1	2	12A	YES	IWC-1222(d)	VT-2 only		
2MS-1084				205303-01	1	2	12A	YES	IWC-1222(d)	VT-2 only		
2MS-1085				205303-01	1	2	12A	YES	IWC-1222(d)	VT-2 only		
2MS-1086				205303-01	1	2	12A	YES	IWC-1222(d)	VT-2 only		
2MS-1087				205303-01	1	2	12A	YES	IWC-1222(d)	VT-2 only		
2MS-1088				205303-01	1	2	12A	YES	IWC-1222(d)	VT-2 only		
2MS-1090				205303-01	4 & 1	2	12A	YES	IWC-1222(d)	VT-2 only		
2MS-1091	8-MS-2217	MS23-01	B-42-1	205303-01	6	2	12A	NO				
2MS-1092				205303-01	2	2	12A	YES	IWC-1222(d)	VT-2 only		
2MS-1094				205303-01	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1096				205303-01	2	2	12A	YES	IWC-1222(d)	VT-2 only		
2MS-1107				205303-01	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1108				205303-01	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1119	
2MS-1109				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1110				205303-01	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1111				205303-01	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number in Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2MS-1112				205303-01	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1113				205303-01	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1114	8-MS-2232	MS23 Sht.4	B-39-1	205303-01	8	2	12A	NO				
2MS-1115	8-MS-2231	MS23 Sht.4	B-39-1	205303-01	8	2	12A	NO				
2MS-1116	8-MS-2234	MS23 Sht.4	B-39-1	205303-01	8	2	12A	NO				
2MS-1117	8-MS-2233	MS23 Sht.4	B-39-1	205303-01	8	2	12A	NO				
2MS-1118	8-MS-2235	MS23 Sht.4	B-39-1	205303-01	8	2	12A	NO				
2MS-1119				205303-01	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note in Justification field. Ref. Dwg. 218218	Note: This line is actually part of the main steam safety valve strut. By design, main steam is channeled through the strut to minimize thermal loading on the safety valve discharge nozzle.
2MS-1120				205303-01	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1119	
2MS-1121				205303-01	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1119	
2MS-1122				205303-01	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1119	
2MS-1124				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1125				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1126				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1127				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1128				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1129				205303-01	2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1130				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1130				205303-01	2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1131				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1132				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1133				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1135				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1136				205303-01	2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1137				205303-01	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1138	6-MS-2237	MS23-04	B-42-1	205303-01	6	2	12A	NO				
2MS-1142				205303-01	2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1154				205303-02	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam . Type	Comments	Justification
2MS-1155	8-MS-2242	MS23-05	B-38-1	205303-02	8	2	12A	NO				
2MS-1156				205303-02	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1157				205303-02	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note in Justification field. Ref. Dwg. 218218	Note: This line is actually part of the main steam safety valve strut. By design, main steam is channeled through the strut to minimize thermal loading on the safety valve discharge nozzle.
2MS-1158	8-MS-2241	MS23-05	B-38-1	205303-02	8	2	12A	NO				
2MS-1159				205303-02	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1160				205303-02	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1157	
2MS-1161	8-MS-2244	MS23-05	B-38-1	205303-02	8	2	12A	NO				
2MS-1162				205303-02	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1163				205303-02	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1157	
2MS-1164	8-MS-2243	MS23-05	B-38-1	205303-02	8	2	12A	NO				
2MS-1165				205303-02	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1166				205303-02	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1157	
2MS-1167	8-MS-2245	MS23-05	B-38-1	205303-02	8	2	12A	NO				
2MS-1168				205303-02	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1169				205303-02	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1157	
2MS-1170				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1171				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1172				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1173				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1174				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1175				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1176				205303-02	2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1177				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1178				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1179				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number in Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2MS-1180				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1182				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1183				205303-02	2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1186	6-MS-2247	MS23-05	B-42-1	205303-02	6	2	12A	NO				
2MS-1187				205303-02	2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1188				205303-02	2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1198	8-MS-2222	MS23-02	B-40-1	205303-02	8	2	12A	NO				
2MS-1199				205303-02	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1200				205303-02	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note in Justification field. Ref. Dwg. 218218	Note: This line is actually part of the main steam safety valve strut. By design, main steam is channeled through the strut to minimize thermal loading on the safety valve discharge nozzle.
2MS-1201	8-MS-2221	MS23-02	B-40-1	205303-02	8	2	12A	NO				
2MS-1202				205303-02	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1203				205303-02	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1200	
2MS-1204	8-MS-2224	MS23-02	B-40-1	205303-02	8	2	12A	NO				
2MS-1205				205303-02	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1206				205303-02	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1200	
2MS-1207	8-MS-2223	MS23-02	B-40-1	205303-02	8	2	12A	NO				
2MS-1208				205303-02	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1209				205303-02	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1200	
2MS-1210	8-MS-2225	MS23-02	B-40-1	205303-02	8	2	12A	NO				
2MS-1211				205303-02	10	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1212				205303-02	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only	See note against line 2MS-1200	
2MS-1213				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1214				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1215				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1216				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2MS-1217				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1218				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1219				205303-02	2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1223				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1224				205303-02	2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1224				205303-02	2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1224	6-MS-2227	MS23-02	B-42-1	205303-02	6	2	12A	NO				
2MS-1244				205303-02	3	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1245				205303-02	2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1391				205303-01	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1392				205303-01	1	3	12C	YES	IWD-1220(a)	VT-2 only		
2MS-1411				205303-01	4 & 3	2	12A	YES	IWC-1222(d)	VT-2 only		
2MS-1413				205303-01	4 & 2	2	12A	YES	IWC-1222(d)	VT-2 only		
2MS-1428				205303-01	4 & 3	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1429				205303-01	4 & 2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1430				205303-01	4 & 2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1444				205303-02	4 & 3	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1445				205303-02	4 & 2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1446				205303-02	4 & 2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1457				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1460				205303-02	4 & 3	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1461				205303-02	4 & 2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1462				205303-02	4 & 2	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1466				205303-01	3/4	3	12C	YES	IWD-1220(a)	VT-2 only		
2MS-1470				205303-01	1	3	12D	YES	IWD-1220(a)	VT-2 only		
2MS-1471				205303-01	1	3	12D	YES	IWD-1220(a)	VT-2 only		
2MS-1478				205303-01	3/4	3	12C	YES	IWD-1220(a)	VT-2 only		
2MS-1481	6-MS-2216	MS23-01	B-41-1	205303-01	6	2	12A	NO				
2MS-1482				205303-01	4 & 2	2	12A	YES	IWC-1222(d)	VT-2 only		
2MS-1487	6-MS-2236	MS23-04	B-39-1	205303-01	6	2	12A	NO				
2MS-1492	6-MS-2246	MS23-05	B-38-1	205303-02	6	2	12A	NO				
2MS-1498	6-MS-2226	MS23-02	B-40-1	205303-02	6	2	12A	NO				
2MS-1503				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1504				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1505				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1506				205303-02	1	2	12A	YES	IWC-1222(a)(1)	VT-2 only		
2MS-1565				205303-01	18	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1566				205303-01	18	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1567				205303-01	18	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1568				205303-01	18	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1569				205303-01	18	2	12A	YES	IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2MS-1571				205303-01	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1572				205303-01	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1573				205303-01	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1574				205303-01	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1575				205303-01	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1577				205303-02	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1578				205303-02	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1579				205303-02	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1580				205303-02	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1581				205303-02	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1583				205303-02	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1584				205303-02	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1585				205303-02	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1586				205303-02	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-1587				205303-02	18	2	12A		IWC-1222(d)	none	Line is excluded from VT-2 exam per IWC-5222(b)	
2MS-XXX1				205303-06	1	3	12C	YES	IWD-1220(a)	VT-2 only		
2NT-1034				205334-03	1	2	49C	YES	IWC-1222(a)(1)	VT-2 only		
2NT-1035				205334-03	1	3	49D	YES	IWD-1220(a)	VT-2 only		
2NT-1035				205334-04	1	3	49D	YES	IWD-1220(a)	VT-2 only		
2NT-1037				205334-03	1	3	49D	YES	IWD-1220(a)	VT-2 only		
2NT-1038				205334-03	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2NT-1042				205334-04	1	3	49D	YES	IWD-1220(a)	VT-2 only		
2NT-1043				205334-04	1	3	49D	YES	IWD-1220(a)	VT-2 only		
2NT-1044				205334-04	1	3	49D	YES	IWD-1220(a)	VT-2 only		
2NT-1050				205301-01	3/4	2	44E	YES	IWC-1222(a)(1)	VT-2 only		Carbon Steel
2PR-1000				205301-01	3	2	44C	YES	IWC-1222(a)(1)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2PR-1001				205301-01	3	2	44C	YES	IWC-1222(a)(1)	VT-2 only		
2PR-1002	6-PR-2202	RC23-03 RC23-05	B-52-1	205301-01	6	2	44C	NO			Base Material Thickness < 3/8"	
2PR-1003	6-PR-2201	RC23-03 RC23-05	B-53-1	205301-01	6	2	44C	NO			Base Material Thickness < 3/8"	
2PR-1004	6-PR-2205	RC23-03 RC23-05	B-49-1	205301-01	6	2	44C	NO			Base Material Thickness < 3/8"	
2PR-1005	6-PR-2203	RC23-03	B-51-1	205301-01	6	2	44C	NO			Base Material Thickness < 3/8"	
2PR-1006	6-PR-2204	RC23-03	B-50-1	205301-01	6	2	44C	NO			Base Material Thickness < 3/8"	
2PR-1009				205301-01	3/4	2	44C	YES	IWC-1222(a)(1)	VT-2 only		
2PR-1010	12-PR-2201	RC23-03	B-46-1 B-46-2	205301-01	12	2	44C	NO			Portion inside tank excluded from VT-2 exam per IWC-5222(b)	
2PR-1012				205301-01	4	2	44D	YES	IWC-1222(a)(1)	VT-2 only		
2PR-1017				205301-01	4	2	44D	YES	IWC-1222(a)(1)	VT-2 only		
2PR-1018	6-RC-2250	RC23-04	B-85-1	205301-01	6	2	44D	NO			Base Material Thickness < 3/8"	Previously marked for deletion. Records recalled, as no justifiable basis was documented.
2PR-1021				205301-01	3/4	2	44D	YES	IWC-1222(a)(1)	VT-2 only		
2PR-1026				205301-01	2	2	44C	YES	IWC-1222(a)(1)	VT-2 only		
2PR-1027				205301-01	4	2	44D	YES	IWC-1222(a)(1)	VT-2 only		
2PR-1028				205301-01	4	2	44C	YES	IWC-1222(a)(1)	VT-2 only		
2PR-1033				205301-01	3/4	2	44D	YES	IWC-1222(a)(1)	none	Open to Trench 2WDE17	Open ended discharge piping excluded from VT-2 exam per IWC-5222(b)
2PR-1033				205327-03	3/4	2	44D	YES	IWC-1221(a)(1)	none	Open to Trench 2WDE17	Open ended discharge piping excluded from VT-2 exam per IWC-5222(b). Note: A boundary drawing was not generated for this portion of line.
2PR-1036				205301-01	2	2	44D	YES	IWC-1222(a)(1)	VT-2 only		
2PR-1037				205301-01	2	2	44D	YES	IWC-1222(a)(1)	VT-2 only		
2PR-1038				205301-01	3	2	44D	YES	IWC-1222(a)(1)	VT-2 only	Portion inside tank excluded from VT-2 exam per IWC-5222(b)	
2PR-1039				205301-01	3/4	2	44D	YES	IWC-1222(a)(1)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2PR-1042	6-PR-2201	RC23-20	B-53-1	205301-01	6	2	44C	NO			Base Material Thickness < 3/8"	
2PS-1000	4-PS-1231	RC 23-6	A-26-1	205301-01 205301-02	4	1	44A	NO				
2PS-1000	4-PS-1231	RC 23-6	A-26-1	205301-01 205301-02	4	1	44A	NO				
2PS-1000	4-PS-1231	RC 23-7	A-26-2	205301-01 205301-02	4	1	44A	NO				
2PS-1001	4-PS-1211	RC 23-6	A-28-1	205301-01 205301-02	4	1	44A	NO				
2PS-1005				205301-01	1	1	44A	YES	FWB-1220(b)(1)	VT-2 only		
2PS-1006				205301-01	3/4	1	44A	YES	FWB-1220(b)(1)	VT-2 only		
2PS-1007				205301-01	3/4	1	44B	YES	FWB-1220(b)(1)	VT-2 only		
2PS-1009				205301-01	1	1	44A	YES	FWB-1220(b)(1)	VT-2 only		
2PS-1010				205301-01	3/4	1	44A	YES	FWB-1220(b)(1)	VT-2 only		
2PS-1011				205301-01	1	1	44A	YES	FWB-1220(b)(1)	VT-2 only		
2PS-1012				205301-01	3/4	1	44A	YES	FWB-1220(b)(1)	VT-2 only		
2PS-1013				205301-01	3/4	1	44A	YES	FWB-1220(b)(1)	VT-2 only		
2PS-1014				205301-01	3/4	1	44B	YES	FWB-1220(b)(1)	VT-2 only		
2PS-1016	14-PS-1231	RC 23-2	A-25-1	205301-01 205301-02	14	1	44A	NO				
2-PS-1026	4-PR-1200	RC 23-5	A-20-1	205301-01	4	1	44B	NO				
2PS-1027	3-PR-1206	RC 23-5	A-24-1	205301-01	3	1	44B	NO				
2PS-1028	3-PR-1207	RC 23-5	A-20-1	205301-01	3	1	44B	NO				
2-PS-1034	6-PR-1203	RC 23-5	A-19-1	205301-01	6	1	44B	NO				
2PS-1035	6-PR-1204	RC-23-3	A-18-1	205301-01	6	1	44B	NO				
2PS-1036	6-PR-1205	RC 23-3	A-17-1	205301-01	6	1	44B	NO				
2PS-1043				205301-01	3/4	1	44B	YES	FWB-1220(b)(1)	VT-2 only		
2RC-1000	29-RC-1210	RC23-1	A-36-1	205301-02	29	1	44A	NO				
2RC-1001	31-RC-1210	RC23-1	A-32-1	205301-02	31	1	44A	NO				
2RC-1002	27 1/2-RC-1210	RC23-1	A-40-1	205301-02	27 1/2	1	44A	NO				
2RC-1003	29-RC-1220	RC23-1	A-35-1	205301-03	29	1	44A	NO				
2RC-1004	31-RC-1220	RC23-1	A-31-1	205301-03	31	1	44A	NO				
2RC-1005	27 1/2-RC-1220	RC23-1	A-39-1	205301-03	27 1/2	1	44A	NO				
2RC-1006	29-RC-1230	RC23-2	A-34-1	205301-02	29	1	44A	NO				
2RC-1007	31-RC-1230	RC23-2	A-30-1	205301-02	31	1	44A	NO				
2RC-1008	27 1/2-RC-1230	RC23-2	A-38-1	205301-02	27 1/2	1	44A	NO				
2RC-1009	29-RC-1240	RC23-2	A-33-1	205301-03	29	1	44A	NO				
2RC-1010	31-RC-1240	RC23-2	A-29-1	205301-03	31	1	44A	NO				
2RC-1011	27 1/2-RC-1240	RC23-2	A-37-1	205301-03	27 1/2	1	44A	NO				
2RC-1029	31-RC-1210	RC23-1	A-32-1	205301-02	3	1	44A	NO				
2RC-1039	2-RC-1211	RC23-17	A-56-1	205301-02	2	1	44A	NO				
2RC-1052	31-RC-1220	RC23-1	A-31-1	205301-03	3	1	44A	NO				
2RC-1060	2-RC-1221	RC23-17	A-53-1	205301-03	2	1	44A	NO				
2RC-1068				205301-02	3/4	1	44A	YES	FWB-1220(b)(1)	VT-2 only		
2RC-1077	31-RC-1230	RC23-2	A-30-1	205301-02	3	1	44A	NO				
2RC-1087	2-RC-1231	RC23-17	A50-1	205301-02	2	1	44A	NO				
2RC-1087	2-RC-1231	RC23-17	A-50-1	205328-02	2	1	44A	NO				
2RC-1092				205301-02	1	1	44A	YES	FWB-1220(b)(1)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2RC-1092				205328-02	1	1	44A	YES	IWB-1220(b)(1)	VT-2 only		Verified line size is 1" per Iso. CV-2-3, Sht.5.
2RC-1100				205301-01	3/4	2	44C	YES	IWC-1222(a)(1)	VT-2 only		
2RC-1102	31-RC-1240	RC23-2	A-29-1	205301-03	3	1	44A	NO				
2RC-1103				205301-01	3/4	2	44C	YES	IWC-1222(a)(1)	VT-2 only		
2RC-1104				205301-01	3/4	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2RC-1105				205301-01	3/4	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2RC-1106				205301-01	3/4	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2RC-1107	3-CV-1243	RC23-19	A-10-1	205301-01 205328	12 & 3	1	44A	NO				
2RC-1108				205301-01	3/4	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2RC-1109				205301-01	3/4	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2RC-1110	2-RC-1241	RC23-19	A-47-1	205301-03	2	1	44A	NO				
2RH-1000	14-RH-1211	RH23-04	A-61-1	205301-02	14	1	44A	NO				
2RH-1000	14-RH-1211	RH23-04	A-61-1	205332-02	14	1	44A	NO				
2RH-1001	14-RH-2224	RH22-07	B-54-1	205332-02	14	2	51A	NO				
2RH-1001	14-RH-2212	RH23-04 RH22-07	B-56-1	205332-01	14	2	51A	NO				
2RH-1002	14-RH-2214	RH22-07 RH22-03	B-55-1	205332-01	14	2	51A	NO				
2RH-1003	8-RH-2226	RH22-01	B-61-1	205332-01	8	2	51B	NO			8" NPS Base Material Thickness < 3/8"	
2RH-1004	8-RH-2226	RH22-01	B-61-1	205332-01	8	2	51B	NO			Base Material Thickness < 3/8"	
2RH-1004	8-RH-2226	RH22-01	B-61-1	205332-02	8	2	51B	NO			8" NPS Base Material Thickness < 3/8"	
2RH-1006	12-RH-2252	RH22-01	B-68-1	205332-01	12	2	51B	NO				
2RH-1007				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1010	8-RH-2216	RH22-02	B-63-1	205332-01	8	2	51B	NO			8" NPS Base Material Thickness < 3/8"	
2RH-1011	8-RH-2216	RH22-02	B-63-1	205332-01	8	2	51B	NO			8" NPS Base Material Thickness < 3/8"	
2RH-1012				205332-01	3	2	51A	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1013				205332-01	3/4	2	51A	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1014				205332-01	3	2	51A	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1015				205332-01	3	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1016	8-RH-2273	RH22-01 RH22-02	B-59-1	205332-01	8	2	51B	NO			Base Material Thickness < 3/8"	
2RH-1016	8-RH-2273	RH22-01 RH22-02	B-59-1	205332-02	8	2	51B	NO			Base Material Thickness < 3/8"	
2RH-1017				205332-01	2	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1019				205332-01	1/2	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1019				205332-02	3/4	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2RH-1020	8-RH-2274	RH22-02	B-58-1	205332-01	8	2	51B	NO			Base Material Thickness < 3/8"	
2RH-1021				205332-01	3	2	51A	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1022				205332-01	3	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1023				205332-02	3/4	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2RH-1024				205332-02	3/4	1	44A	YES	IWB-1220(b)(1)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2RH-1025				205332-01	3/4	2	51A	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1026				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1027				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1028				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1031				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1032				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1034	8-RH-2253	RH22-01 RH22-03	B-60-1	205332-01	8	2	51B	NO			Base Material Thickness < 3/8"	
2RH-1035				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1036				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1037				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1038				205332-01	3/4	2	51A	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1038				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1039				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1040				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1043				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1044				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1049	12-RH-2252	RH22-01 RH22-02	B-68-1	205332-01	12	2	51B	NO				
2RH-1051	12-RH-1251	RH23-02	A-62-1	205332-01	12	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2RH-1052				205332-01	2	2	51A	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1053				205332-01	2	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1054				205332-01	2	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1055				205332-01	2	2	51A	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1056				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1079				205328-02	2	2	51B	Yes	IWC-1221(a)(1)	VT-2 only		
2RH-1079				205332-01	2	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1079				205332-01	2	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1079				205332-02	2	2	51B	Yes	IWC-1221(a)(1)	VT-2 only		
2RH-1080				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1083				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1084				205332-01	1/2	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1089				205332-01	3/4	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2RH-1107				205327-03	4	2	44D	YES	IWC-1221(a)(1)	none	Open to Trench 2WDE17	Open ended discharge piping excluded from VT-2 exam per IWC-5222(b). Note: A boundary drawing was not generated for this portion of line.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2RH-1107				205332-01	4	2	44D	YES	IWC-1221(a)(1)	none	Open to Trench ZWDE17	Open ended discharge piping excluded from
2RH-1108				205327-03	1	2	44D	YES	IWC-1221(a)(1)	none	Open to Trench ZWDE17	Open ended discharge piping excluded from VT-2 exam per IWC-5222(b). Note: A boundary drawing was not generated for this portion of line.
2RH-1108				205332-01	1	2	44D	YES	IWC-1221(a)(1)	none	Open to Trench ZWDE17	Open ended discharge piping excluded from VT-2 exam per IWC-5222(b)
2RH-1110				205332-02	1	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2RH-1111				205332-02	1	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2RH-1113				205327-03	1/2	2	44D	YES	IWC-1221(a)(1)	none	Open to Trench ZWDE17	Open ended discharge piping excluded from VT-2 exam per IWC-5222(b). Note: A boundary drawing was not generated for this portion of line.
2RH-1113				205332-01	1/2	2	44D	YES	IWC-1221(a)(1)	none	Open to Trench ZWDE17	Open ended discharge piping excluded from VT-2 exam per IWC-5222(b)
2RH-1119				205327-03	1/2	2	44D	YES	IWC-1221(a)(1)	none	Open to Trench ZWDE17	Open ended discharge piping excluded from VT-2 exam per IWC-5222(b). Note: A boundary drawing was not generated for this portion of line.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2RH-1110				205332-02	1/2	2	44D	YES	IWC-1221(a)(1)	none	Open to Trench 2WDE17	Open ended discharge piping excluded from VT-2 exam per IWC-5222(b)
2RH-1120				205332-02	1/2	N	53F			N/A	Out of Scope.	Refer to 205301, Sheet 1 (E-6,7)
2RH-1141				205332-01	1/2	2	51B	YES	IWC-1221(a)(1)	VT-2 only		
2SA-1000				205317-02	3	2	32A	YES	IWC-1222(a)(1)	VT-2 only		
2SA-XXX1				205317-01	3/4	2	32A	YES	IWC-1222(a)(1)	VT-2 only	ILRT Test Lines	
2SA-XXX2				205317-01	3/4	2	32A	YES	IWC-1222(a)(1)	VT-2 only	ILRT Test Lines	
2SA-XXX3				205317-01	3/4	2	32A	YES	IWC-1222(a)(1)	VT-2 only	ILRT Test Lines	
2SF-1000				205333-01	10	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	Non-Safety Related piping upgraded for ISI. Reference PR# 890119178 and DCP 2EE-0339 which analyzed piping class 55B to Seismic Category 1. Piping and components are subject to VT-2 (part of SPT SF-001).
2SF-1001				205333-01	10	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1002				205333-01	8	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1003				205333-01	8	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1004				205333-01	10	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1005				205333-01	10	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1006				205333-01	8	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1007				205333-01	3	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1?	Basis For Exemption	Exam Type	Comments	Justification
2SF-1008				205333-01	2	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1009				205333-01	2	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1010				205333-01	3	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1011				205333-01	2	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1012				205333-01	2	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1013				205333-01	3	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1023				205333-01	4	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1068				205333-01	3	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1070				205333-01	2	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1085				205333-01	3	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1090				205333-01	3	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1096				205333-01	2	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1097				205333-01	2	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1098				205333-01	2	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1099				205334-01	2	3	49A	YES	IWD-1220(e)	VT-2 only		
2SF-1100				205333-01	2	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1101				205333-01	2	2	55C	YES	IWC-1222(a)(1)	VT-2		
2SF-1102				205333-01	3	2	55C	YES	IWC-1222(a)(1)	VT-2		
2SF-1102				205339-03	3	2	55C	YES	IWC-1222(a)(1)	VT-2		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SF-1114				205333-01	3	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1114				205334-01	3	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1116				205333-01	3	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1129				205333-01	2	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1131				205333-01	2	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1136				205333-01	3	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1140				205333-01	3	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-1148				205333-01	2	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000.
2SF-XXX1				205333-01	6 & 8	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000. Cross tie to No.1 Spent Fuel Pit HX.
2SF-XXX2				205333-01	6 & 8	3	55B	YES	IWD-1220(c)	VT-2 only	Upgraded to Class 3 for ISI	See Justification for line 2SF-1000. Cross tie to No.1 Spent Fuel Pit HX.
2SJ-1000		RH22-6		205334-01	20	3	49A	NO		VT-1		HPSI Suction flowpath
2SJ-1000		RH22-6		205334-02	20	3	49A	NO		VT-1		
2SJ-1001	12-RH-2269	RH22-03	B-67-1	205334-03	12	2	51A	NO				
2SJ-1002		RH22-6		205334-01	8	3	49A	NO		VT-1		HPSI Suction flowpath
2-SJ-1003	8-CV-2201	RH22-06	B-20-1	205328-02	8	2	48J	NO			HPSI	
2-SJ-1003	8-CV-2201	RH22-06	B-20-1	205334-01	8	2	48J	NO			HPSI	
2SJ-1004		RH22-6		205334-01	8	3	49A	NO		VT-1		HPSI Suction flowpath
2SJ-1006	4-SJ-2212	RH23-05	B-84-2	205334-01	4	2	49G	NO			HPSI	
2SJ-1007	4-SJ-2212	RH23-05	B-84-2	205334-01	4	2	49G	NO			HPSI	
2SJ-1008	6-SJ-2204	RH23-05	B-77-1	205334-01	6	2	49G	NO			HPSI	
2SJ-1009	4-SJ-2201	RH23-05	B-80-1	205334-01	4	2	49G	NO			HPSI	
2SJ-1010	4-SJ-2201	RH23-05	B-80-1	205334-01	4	2	49G	NO			HPSI	

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1?	Basis For Exemption	Exam Type	Comments	Justification
2SJ-1011	4-SJ-1295	RH23-05	A-84-1	205334-01	4	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1012	3-SJ-1292	RH23-05	A-84-1	205334-01	3	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1013	1-1/2-SJ-1222	RH23-08	A-105-1 A-105-2	205301-03	1-1/2	1	44A	NO				
2SJ-1013	1-1/2-SJ-1222	RH23-08	A-105-1 A-105-2	205334-01	1-1/2	1	44A	NO				
2SJ-1014	1-1/2-SJ-1212	RH23-11	A-107-1 A-107-2	205301-02	1-1/2	1	44A	NO				
2SJ-1014	1-1/2-SJ-1212	RH23-11	A-107-1 A-107-2	205334-01	1-1/2	1	44A	NO				
2SJ-1015	1-1/2-SJ-1232	RH23-08	A-103-1 A-103-2	205301-02	1-1/2	1	44A	NO				
2SJ-1015	1-1/2-SJ-1232	RH23-08	A-103-1 A-103-2	205334-01	1-1/2	1	44A	NO				
2SJ-1016	1-1/2-SJ-1242	RH23-07	A-101-1 A-101-2	205301-03	1-1/2	1	44A	NO				
2SJ-1016	1-1/2-SJ-1242	RH23-07	A-101-1 A-101-2	205334-01	1-1/2	1	44A	NO				
2SJ-1017	8-SJ-2207	RH22-05	B-86-1	205334-02	8	2	49E	NO			Base Material Thickness < 3/8"	
2SJ-1018	6-SJ-2207	RH22-05	B-86-1	205334-02	6	2	49E	NO			Base Material Thickness < 3/8"	4" section is exempt by size.
2SJ-1018		RH22-05		205334-02	4	2	49E	YES	IWC-1221(a)(1)	VT-2		Note: Shown as 4-SJ-2207 on ISI Iso. B-86-1
2SJ-1019				205334-02	6/4	2	49F	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1020	2-SJ-1237	RH23-11	A-93-1	205334-03	2	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1021				205334-02	4 & 2-1/2	2	49F	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1022	2-SJ-1218	RH23-19 RH23-21	A-99-1 A-99-2	205334-03	2	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SJ-1023				205334-02	4	2	49F	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1024				205334-02	4	2	49F	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1025	8-SJ-1252	RH23-01	A-69-1 A-69-2	205334-03	8	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1025	8-SJ-1252	RH23-01	A-69-1 A-69-2	205334-04	8	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1026	6-SJ-1212	RH23-01	A-81-1	205334-04	6	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1027				205334-01	1-1/2	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1027	8-SJ-1262	RH23-03	A-67-1 A-67-2	205334-03	8	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1027	8-SJ-1262	RH23-03	A-67-1 A-67-2	205334-04	8	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1028	6-SJ-1222	RH23-03	A-79-1	205334-04	6	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1029	8-RH-2215	RH22-02 RH22-05	B-75-1	205334-02	8	2	51B	NO			Base Material Thickness < 3/8"	
2SJ-1029	8-RH-2215	RH22-02 RH22-05	B-75-1	205334-03	8	2	51B	NO			Base Material Thickness < 3/8"	
2SJ-1030	8-RH-2215	RH22-05	B-86-3	205334-02	8	2	49E	NO			Base Material Thickness < 3/8"	

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Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1?	Basis For Exemption	Exam Type	Comments	Justification
2SJ-1031	8-RH-2225	RH22-08	B-74-1	205334-01	8	2	51B	NO			Base Material Thickness < 3/8"	
2SJ-1031	8-RH-2225	RH22-08	B-74-1	205334-03	8	2	51B	NO			Base Material Thickness < 3/8"	
2SJ-1034	14-RH-2224	RH22-03	B-65-1	205334-03	14	2	51A	NO				
2SJ-1035	14-RH-2214	RH22-03	B-65-1	205334-03	14	2	51A	NO				
2SJ-1036	10-SJ-1211	RH23-01	A-66-1	205301-02	10	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1036	10-SJ-1211	RH23-01	A-66-1	205334-04	10	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1037	10-SJ-1221	RH23-03	A-65-1	205301-03	10	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1037	10-SJ-1221	RH23-03	A-65-1	205334-04	10	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1038	10-SJ-1231	RH23-01	A-64-1	205301-02	10	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1038	10-SJ-1231	RH23-01	A-64-1	205334-04	10	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SJ-1039	10-SJ-1241	RH23-04	A-63-1	205301-03	10	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1039	10-SJ-1241	RH23-04	A-63-1	205334-04	10	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1040		RH22-3		205334-02	12	3	49A	NO		VT-1		
2SJ-1040		RH22-3		205334-03	12	3	49A	NO		VT-1		
2SJ-1041	6-SJ-2203	RH23-05	B-77-1	205334-01	6	2	49G	NO			HPSI	
2SJ-1042	4-SJ-1293	RH23-05	A-84-1	205334-01	4	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1043		RH22-5		205334-02	8	3	49A	NO		VT-1		
2SJ-1044	6-SJ-2208	RH22-05	B-86-3	205334-02	6	2	49E	NO			Base Material Thickness < 3/8"	
2SJ-1044		RH22-05		205334-02	4	2	49E	YES	IWC-1221(a)(1)	VT-2		Note: Shown as 4-SJ-2208 on ISI Iso. B-86-3
2SJ-1045	4-SJ-1272	RH23-05	A-87-1	205334-02	4	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1045	4-SJ-1272	RH23-05	A-87-1	205334-03	4	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1046	4-SJ-1282	RH23-06	A-86-1	205334-02	4	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SJ-1046	4-SJ-1282	RH23-06	A-86-1	205334-03	4	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1047	2-SJ-1228	RH23-19	A-94-1 A-94-2 A-94-3	205334-03	2	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1048	2-SJ-1239	RH23-13	A-92-1	205334-04	2	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1049	4-SJ-1294	RH23-06	A-85-1	205334-02	4	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1049	4-SJ-1294	RH23-06	A-85-1	205334-04	4	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1050	6-SJ-1232	RH23-01	A-76-1	205334-04	6	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1051	6-SJ-1242	RH23-04	A-73-1	205334-04	6	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1052	6-SJ-2208	RH22-05	B-86-3	205334-02	6	2	49E	NO			Base Material Thickness < 3/8"	

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SJ-1053		RH22-03		205334-03	18	2	51A	YES	IWC-1221(D)	VT-2 only		
2SJ-1054				205334-03	18	2	51A	YES	IWC-1221(D)	VT-2 only		
2SJ-1055	4-SJ-2202	RH23-05	B-84-1 B-84-2	205328-02	4	2	49G	NO			HPSI	
2SJ-1055	4-SJ-2202	RH23-05	B-84-1 B-84-2	205334-01	4	2	49G	NO			HPSI	
2SJ-1057				205334-04	10	2	49D	YES	IWC-1221(c)	VT-2 only	Optionally upgraded to Class 2 for ISI only.	Reference: NRC Reg. Guide 1.26, Rev.3 (draft) ; Regulatory Position C.1.b.
2SJ-1058				205334-04	10	2	49D	YES	IWC-1221(c)	VT-2 only	Optionally upgraded to Class 2 for ISI only.	Reference: NRC Reg. Guide 1.26, Rev.3 (draft) ; Regulatory Position C.1.b.
2SJ-1059				205334-04	10	2	49D	YES	IWC-1221(c)	VT-2 only	Optionally upgraded to Class 2 for ISI only.	Reference: NRC Reg. Guide 1.26, Rev.3 (draft) ; Regulatory Position C.1.b.
2SJ-1060				205334-04	10	2	49D	YES	IWC-1221(c)	VT-2 only	Optionally upgraded to Class 2 for ISI only.	Reference: NRC Reg. Guide 1.26, Rev.3 (draft) ; Regulatory Position C.1.b.
2SJ-1061	2-SJ-1247	RH23-11	A-91-1	205334-03	2	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1062				205334-01	2	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1062				205334-02	3/4	2	49F	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1065				205334-01	3	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1068				205334-01	2	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1069				205334-01	3	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1071				205334-01	2	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1072				205334-01	2	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1074				205334-01	4	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1075				205334-01	3/4	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1076				205334-01	4	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1077				205334-01	2	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1077				205334-02	2	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1078				205334-02	2	2	49F	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1079				205334-02	3/4	2	49F	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1080				205334-02	1-1/2	2	49F	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1081				205334-02	3/4	2	49F	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1082				205334-02	1-1/2	2	49F	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1090				205334-01	1-1/4	2	49G	YES	IWC-1221(b)(1)	VT-2 only		
2SJ-1090				205334-01	1-1/4	2	49G	YES	IWD-1220(a)	VT-2 only		
2SJ-1091				205334-01	1-1/4	2	49G	YES	IWD-1220(a)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SJ-1097	3-SJ-1292	RH23-05	A-84-1	205334-01	3	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1099				205333-01	2	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1099				205334-04	1	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2SJ-1100				205334-01	3/4	3	49A	YES	IWD-1220(a)	VT-2 only		
2SJ-1101				205334-01	3/4	2	49G	YES	IWD-1220(a)	VT-2 only		
2SJ-1103	6-SJ-2210	RH22-08	B-86-2	205334-01	6	2	49E	NO			Base Material Thickness < 3/8"	
2SJ-1103	6-SJ-2210	RH22-08	B-88-2	205334-02	6	2	49E	NO			Base Material Thickness < 3/8"	
2SJ-1105	6-SJ-2210	RH22-08	B-86-2	205334-01	6	2	49E	NO			Base Material Thickness < 3/8"	
2SJ-1108	6-CV-2201	RH22-08	B-25-1	205334-01	6	2	49E	NO			Base Material Thickness < 3/8"	
2SJ-1109	8-CV-2201	RH22-08	B-20-3	205334-01	8	2	49E	NO			Base Material Thickness < 3/8"	
2SJ-1110	6-CV-2201	RH22-08	B-25-1	205334-01	6	2	49E	NO			Base Material Thickness < 3/8"	
2SJ-1111				205334-03	3/4	2	51A	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1112				205334-03	3/4	2	51A	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1113	2-SJ-1219	RH23-13	A-98-1	205334-04	2	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1114	2-SJ-1249	RH23-13	A-89-1 A-89-2	205334-04	2	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1115	2-SJ-1229	RH23-13	A-94-1 A-94-2	205334-04	2	1	44A	NO				Reference PIR No. 960319179 which authorizes pressure testing to Class 2 criteria.
2SJ-1116				205334-04	3/4	2	49H	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1117				205334-04	1	2	49H	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1118				205334-04	3/4	2	49H	YES	IWC-1221(a)(1)	VT-2 only		
2SJ-1119				205334-03	3/4	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2SJ-1119				205334-04	3/4	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2SJ-1120				205334-03	1	1	44A	YES	IWB-1220(b)(1)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	PAID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1.7	Basis For Exemption	Exam Type	Comments	Justification
2SL-1122				205334-01	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1122				205334-04	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1123				205334-04	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1124				205334-01	1	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1124				205334-04	1	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1125				205334-03	1	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1125				205334-04	1	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1126				205334-04	1	1	49D	YES	MB-1220b(1)	VT-2 only		
2SL-1127				205334-04	1	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1128				205334-04	1	3	49D	YES	MB-1220b(1)	VT-2 only		
2SL-1129				205334-04	1	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1131				205334-04	1	3	49D	YES	MB-1220b(1)	VT-2 only		
2SL-1133				205334-04	1	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1134				205334-04	1 & 3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1136				205334-04	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1137				205334-04	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1138				205334-04	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1139				205334-04	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1141				205334-04	1	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1143				205334-04	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1143				205334-03	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1144				205334-04	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1145				205334-04	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1146				205334-03	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1146				205334-04	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1156		RH22-3		205334-03	6	3	49A	NO		VT-1	No welded attachments or supports, VT-2 only.	
2SL-1157				205334-02	1	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1157				205334-04	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1158				205334-04	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1158				205334-03	1	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1161				205334-03	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1162				205334-03	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1163				205334-03	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1164				205334-03	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1165				205334-04	1	1	49D	YES	MB-1220b(1)	VT-2 only		
2SL-1166				205334-04	1	3	49D	YES	MB-1220b(1)	VT-2 only		
2SL-1167				205334-04	1	3	49D	YES	MB-1220b(1)	VT-2 only		
2SL-1168				205334-04	1	3	49D	YES	MB-1220b(1)	VT-2 only		
2SL-1169				205334-03	3/4	1	44A	YES	MB-1220b(1)	VT-2 only		
2SL-1170	6-SL-1241	RH23-02	A-74.1	205301-03	6	1	44A	NO				
2SL-1170	6-SL-1241	RH23-02	A-74.1	205301-03	6	1	44A	NO				
2SL-1171	6-RH-1231	RH23-02	A-77.1	205301-02	6	1	44A	NO				
2SL-1171	6-RH-1231	RH23-02	A-77.1	205301-03	6	1	44A	NO				
2SL-1172	6-SL-1211	RH23-04	A-98.2	205301-02	6	1	44A	NO				
2SL-1172	6-SL-1211	RH23-04	A-98.2	205301-03	6	1	44A	NO				
2SL-1173	6-SL-1221	RH23-03	A-90.1	205301-03	6	1	44A	NO				
2SL-1173	6-SL-1221	RH23-03	A-90.1	205334-03	6	1	44A	NO				
2SL-1183				205334-01	3/4	2	49C	YES	MB-1220b(1)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SJ-1184				205334-01	3/4	2	49G	YES	RWC-1222(a)(1)	VT-2 only		
2SJ-1187				205334-01	2	N				N/A	Out of Scope.	Line is capped off & abandoned in place.
2SJ-1188				205334-02	1	2	49E	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1190				205301-01	1	2	44D	YES	RWC-1222(a)(1)	VT-2 only		
2SJ-1190				205334-02	1	2	44D	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1196				205334-04	1	1	44A	YES	RWB-1220(b)(1)	VT-2 only		
2SJ-1197				205334-04	1	1	44A	YES	RWB-1220(b)(1)	VT-2 only		
2SJ-1201				205334-03	3/4	2	51A	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1202				205334-03	3/4	2	51A	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1216				205334-01	3/4	2	51B	YES	RWC-1222(a)(1)	VT-2 only		
2SJ-1226				205334-01	3/4	3	49A	YES	RWD-1220(a)	VT-2 only		
2SJ-1227				205334-01	2	3	49A	YES	RWD-1220(a)	VT-2 only		
2SJ-1227				205334-04	1	3	49D	YES	RWD-1220(a)	VT-2 only		
2SJ-1228				205334-01	1	3	49A	YES	RWD-1220(a)	VT-2 only		
2SJ-1229		CS22-1		205334-01	12	3	50A	NO		VT-1		
2SJ-1229		CS22-1		205335-01	12	3	50A	NO		VT-1		
2SJ-1231				205334-01	3	3	49A	YES	RWD-1220(a)	VT-2 only		
2SJ-1232				205334-01	3	3	49A	YES	RWD-1220(a)	VT-2 only		
2SJ-1237				205334-01	3	3	49A	YES	RWD-1220(a)	VT-2 only		
2SJ-1248				205334-02	3/4	2	49F	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1249				205334-02	3/4	2	49F	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1261	B-RH-1235	RH23-02	A-62-1	205334-03	8	1	44A	NO				
2SJ-1262	B-SJ-1245	RH23-02	A-71-1	205334-03	8	1	44A	NO				
2SJ-1264				205334-02	3/4	2	51B	YES	RWC-1222(a)(1)	VT-2 only		
2SJ-1267				205334-02	3/4	2	49F	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1268				205334-02	3/4	2	49F	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1287				205301-01	3	2	44D	YES	RWC-1222(a)(1)	VT-2 only		
2SJ-1287				205334-03	3	2	44D	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1288				205334-03	2-1/2	2	51B	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1294	B-RH-2252	RH22-02 RH23-01	B-72-1	205334-03	8	2	51B	NO			Base Material Thickness < 3/8"	
2SJ-1295	B-RH-2262	RH23-03	B-70-1	205334-03	8	2	51B	NO			Base Material Thickness < 3/8"	
2SJ-1296				205301-01	3	2	44D	YES	RWC-1222(a)(1)	VT-2 only		
2SJ-1296				205334-03	3	2	44D	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1299				205334-03	2-1/2	2	51B	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1307				205334-02	1	2	49F	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1307				205335-01	1	2	49F	YES	RWC-1222(a)(1)	VT-2 only		
2SJ-1308				205334-02	1-1/4	2	49F	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1312				205334-02	3/4	2	49F	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1314				205334-03	3/4	1	44A	YES	RWB-1220(b)(1)	VT-2 only		
2SJ-1323				205334-02	1-1/4 & 3/4	2	49F	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1324				205334-03	3/4	1	44A	YES	RWB-1220(b)(1)	VT-2 only		
2SJ-1325				205301-01	1	2	44D	YES	RWC-1222(a)(1)	VT-2 only		
2SJ-1325				205334-02	1	2	44D	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1328				205334-02	1-1/4 & 3/4	2	49F	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1331				205301-01	1	2	44D	YES	RWC-1222(a)(1)	VT-2 only		
2SJ-1331				205334-02	1	2	44D	YES	RWC-1221(a)(1)	VT-2 only		
2SJ-1342				205334-01	3/4	3	49A	YES	RWD-1220(a)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SJ-1366				205334-04	1	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2SJ-1380				205334-03	3/4	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2SJ-1423	8-CS-2225	RH22-08	B-18-2	205334-03	8	2	51B	NO			Base Material Thickness < 3/8"	
2SJ-1423	8-CS-2225	RH22-08	B-18-2	205335-01	8	2	51B	NO			Base Material Thickness < 3/8"	
2SJ-1424	8-CS-2215 RH-2215	8- RH22-05	B-18-1	205334-03	8	2	51B	NO			Base Material Thickness < 3/8"	
2SJ-1424	8-CS-2215 RH-2215	8- RH22-05	B-18-1	205335-01	8	2	51B	NO			Base Material Thickness < 3/8"	
2SJ-1448				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1449				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1450				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1451				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1452				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1453				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1454				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1455				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1456				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1457				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1458				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1459				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1460				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1461				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1462				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1463				205334-04	2	3	49D	YES	IWD-1220(a)	VT-2 only		
2SJ-1467				205334-04	1	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2SJ-1470				205334-04	1	1	44A	YES	IWB-1220(b)(1)	VT-2 only		
2SS-XXX1				205344-01	3/8	2	56A	YES	IWC-1222(a)(1)	VT-2 only	Multiple penetrations	
2SS-XXX2				205344-03	3/8 & 1/2	2	56A	YES	IWC-1222(a)(1)	VT-2 only	Multiple penetrations	
2SW-1000				205342-02	20	3	27F	NO		VT-1		
2SW-1001				205342-02	20	3	27F & 27C	NO		VT-1		
2SW-1003				205342-02	20	3	27F	NO		VT-1		
2SW-1004				205342-01	20	3	27F	NO		VT-1		
2SW-1005				205342-01	20	3	27F & 27C	NO		VT-1		
2SW-1006				205342-01	20	3	27F	NO		VT-1		
2SW-1007				205342-02	20	3	27F & 27C	NO		VT-1		
2SW-1008				205342-02	20	3	27F & 27C	NO		VT-1		
2SW-1009				205342-02	20	3	27F & 27C	NO		VT-1		
2SW-1010				205342-01	20	3	27F	NO		VT-1		
2SW-1011				205342-01	20	3	27F	NO		VT-1		
2SW-1012				205342-01	20	3	27F	NO		VT-1		
2SW-1013				205342-02	30	3	27F	NO		VT-1		
2SW-1014				205342-01	30	3	27F	NO		VT-1		
2SW-1015				205342-01	24	3	27C	NO		VT-1		
2SW-1015				205342-01	24	3	28C	YES	IWD-1220(d)	VT-2 only		Refer to IWA-5244 for VT-2 examination of buried piping.
2SW-1016				205342-03	24	3	27F	NO		VT-1		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SW-1017				205342-03	20	3	27F & 27C	NO		VT-1		
2SW-1018				205342-03	20 & 18	3	27C & 27G	NO		VT-1		
2SW-1018				205342-06	20	3	27C & 27G	NO		VT-1		
2SW-1019				205342-03	24 & 6	3	27G	NO		VT-1		
2SW-1019				205342-06	24	3	27G	NO		VT-1		
2SW-1020				205342-03	24	3	27F	NO		VT-1		
2SW-1020				205342-04	24 & 10	3	27F	NO		VT-1		
2SW-1021				205342-04	20	3	27F	NO		VT-1		
2SW-1022				205342-04	20 & 18	3	27G	NO		VT-1		
2SW-1022				205342-05	20	3	27G	NO		VT-1		
2SW-1023				205342-03	24 & 6	3	27B & 27G	NO		VT-1		
2SW-1023				205342-05	24	3	27G	NO		VT-1		
2SW-1024				205342-03	24	3	28C	NO		VT-1		Refer to IWA-5244 for VT-2 examination of buried piping.
2SW-1025				205342-03	8	3	27C & 27F	NO		VT-1		
2SW-1026				205342-03	6	3	27F	NO		VT-1		
2SW-1028				205342-03	6	3	27G	NO		VT-1		
2SW-1030				205342-03	24	3	28C	NO		VT-1		Refer to IWA-5244 for VT-2 examination of buried piping.
2SW-1031				205342-03	8	3	27C & 27F	NO		VT-1		
2SW-1032				205342-03	6	3	27F	NO		VT-1		
2SW-1033				205342-03	8	3	27F	NO		VT-1		
2SW-1034				205342-03	6	3	27F	NO		VT-1		
2SW-1036				205342-03	6	3	27G	NO		VT-1		
2SW-1037				205342-03	6	3	27G	NO		VT-1		
2SW-1038				205342-03	6	3	27F	NO		VT-1		
2SW-1040				205342-03	6	3	27G	NO		VT-1		
2SW-1041				205342-03	8	3	27G	NO		VT-1		
2SW-1042				205342-03	6	3	27G	NO		VT-1		
2SW-1043				205342-03	8	3	27G	NO		VT-1		
2SW-1044				205342-03	6	3	27G	NO		VT-1		
2SW-1045				205342-03	8	3	27G	NO		VT-1		
2SW-1048				205342-03	8	3	27F & 27G	NO		VT-1		
2SW-1049				205342-03	8	3	27F	NO		VT-1		
2SW-1050				205342-03	6	3	27F	NO		VT-1		
2SW-1051				205342-03	6	3	27F	NO		VT-1		
2SW-1052				205342-03	18 & 6	3	27F	NO		VT-1		
2SW-1052				205342-06	18	3	27F	NO		VT-1		
2SW-1053				205342-06	10	3	27F	NO		VT-1		
2SW-1054				205342-05	18 & 6	3	27F	NO		VT-1		
2SW-1054				205342-06	18	3	27F	NO		VT-1		
2SW-1055				205342-06	10	3	27F	NO		VT-1		
2SW-1056				205342-06	10	3	27G	NO		VT-1		
2SW-1057				205342-06	10	3	27F	NO		VT-1		
2SW-1058				205342-06	10	3	27G	NO		VT-1		
2SW-1059				205342-06	10	3	27F	NO		VT-1		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SW-1060				205342-06	10	3	27G	NO		VT-1		
2SW-1061				205342-06	10	3	27F	NO		VT-1		
2SW-1062				205342-06	10	3	27G	NO		VT-1		
2SW-1063				205342-06	10	3	27F	NO		VT-1		
2SW-1064				205342-06	10	3	27G	NO		VT-1		
2SW-1065				205342-06	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1066				205342-06	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1067				205342-06	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1068				205342-06	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1069				205342-06	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1070				205342-06	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1071				205342-06	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1072				205342-06	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1073				205342-06	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1074				205342-06	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1076				205342-05	6	3	27F	NO		VT-1		Line partly abandoned in place.
2SW-1077				205342-05	6 & 3		27C			none		Line abandoned in place.
2SW-1078				205342-05	4		27C			none		Line abandoned in place.
2SW-1079				205342-05	4		27C			none		Line abandoned in place.
2SW-1080				205342-05	4		27C			none		Line abandoned in place.
2SW-1081				205342-05	6	3	27G	NO		VT-1		Line partly abandoned in place.
2SW-1081				205342-05	4		27C			none		Line abandoned in place.
2SW-1082				205342-05	4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1083				205342-05	4	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1084				205342-05	4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1085				205342-05	4	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1087				205342-05	4	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1089				205342-05	4 & 3	3	27F & 27G	YES	IWD-1220(a)	VT-2 only		
2SW-1091				205342-05	4	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1093				205342-05	4 & 3	3	27F & 27G	YES	IWD-1220(a)	VT-2 only		
2SW-1094				205342-03	4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1094				205342-05	4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1095				205342-05	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1096				205342-05	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1097				205342-05	4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1098				205342-05	4	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1098				205342-06	4	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1100				205342-05	4	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1102				205342-05	4 & 3	3	27F & 27G	YES	IWD-1220(a)	VT-2 only		
2SW-1107				205342-03	6	3	27F	NO		VT-1		
2SW-1108				205342-03	4	3	27F	YES	IWD-1220(a)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SW-1109				205342-03	1-1/2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1110				205342-03	1-1/2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1111				205342-03	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1112				205342-03	1-1/2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1113				205342-03	1	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1114				205342-03	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1115				205342-03	2 & 1	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1116				205342-03	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1119				205342-03	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1120				205342-03	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1121				205342-03	4	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1121				205342-04	4	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1122				205342-03	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1123				205342-03	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1124				205342-03	1-1/2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1125				205342-03	1-1/2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1126				205342-03	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1127				205342-03	1-1/2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1128				205342-03	1-1/2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1129				205342-03	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1130				205336-01	6	3	27C	NO		VT-1		
2SW-1130				205342-03	6	3	27F	NO		VT-1		
2SW-1130				205342-04	8 & 6	3	27C & 27F	NO		VT-1		
2SW-1131				205342-04	6	3	27F	NO		VT-1		
2SW-1132				205342-04	4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1133				205342-04	6	3	27C & 27F	NO		VT-1		
2SW-1133				205342-03	4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1133				205342-04	4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1134				205342-04	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1135				205342-04	1-1/2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1136				205342-04	1-1/2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1137				205342-04	1-1/2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1138				205342-04	1-1/2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1139				205342-04	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1140				205342-04	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1141				205342-04	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1142				205342-04	2	3	27C & 27G	YES	IWD-1220(a)	VT-2 only		
2SW-1143				205342-04	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1144				205342-04	1-1/2 & 1	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1145				205342-04	1	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1146				205342-04	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1147				205342-04	1-1/2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1148				205342-04	1-1/2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1149				205342-04	2, 1-1/2 & 1	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1152				205342-04	2 & 1	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1154				205342-02	3	3	27F & 27C	YES	IWD-1220(a)	VT-2 only		
2SW-1155				205342-04	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1156				205342-04	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1158				205342-04	2 & 1-1/2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1159				205342-04	4	3	27G	YES	IWD-1220(a)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SW-1160				205342-04	2 & 1-1/2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1161				205342-01	30	3	27F & 27C	NO		VT-1		
2SW-1161				205342-02	30	3	27F & 27C	NO		VT-1		
2SW-1161				205342-02	3 & 1	3	27F & 27C	YES	IWD-1220(a)	VT-2 only		
2SW-1164				205342-01	1-1/2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1165				205342-01	30 & 16	3	27F & 27C	NO		VT-1		
2SW-1165				205342-02	30	3	27F & 27C	NO		VT-1		
2SW-1165				205342-01	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1166				205342-02	30	3	27F	NO		VT-1		
2SW-1167				205342-02	4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1168				205342-02	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1169				205342-02	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1170				205342-02	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1171				205342-02	1-1/2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1172				205342-02	1	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1172				205342-02	1	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1173				205342-02	1/2 & 3/4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1174				205342-02	1/2 & 3/4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1175				205342-02	1	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1177				205342-02	6	3	27F	NO		VT-1		
2SW-1177				205342-02	4	3	27F & 27C	YES	IWD-1220(a)	VT-2 only		
2SW-1178				205342-02	6	3	27F	NO		VT-1		
2SW-1179				205342-02	8	3	27F	NO		VT-1		
2SW-1180				205342-02	10	3	27F & 27C	NO		VT-1		
2SW-1183				205342-02	6	3	27F	NO		VT-1		
2SW-1183				205342-02	4	3	27F & 27C	YES	IWD-1220(a)	VT-2 only		
2SW-1184				205342-02	6	3	27F	NO		VT-1		
2SW-1186				205342-02	6	3	27F	NO		VT-1		
2SW-1186				205342-02	4	3	27F & 27C	YES	IWD-1220(a)	VT-2 only		
2SW-1187				205342-02	6	3	27F	NO		VT-1		
2SW-1191				205342-02	1/2 & 3/4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1192				205342-02	1/2 & 3/4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1193				205342-02	1/2 & 3/4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1195				205342-01	4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1196				205342-01	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1197				205342-01	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1198				205342-01	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1199				205342-01	1-1/2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1200				205342-01	1	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1201				205342-01	1/2 & 3/4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1202				205342-01	1/2 & 3/4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1202				205342-01	1/2 & 3/4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1204				205342-01	1/2 & 3/4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1206				205342-01	1/2 & 3/4	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1208				205342-01	6	3	27F	NO		VT-1		
2SW-1208				205342-01	4	3	27F & 27C	YES	IWD-1220(a)	VT-2 only		
2SW-1209				205342-01	6	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1210				205342-01	10	3	27C & 27F	NO		VT-1		
2SW-1213				205342-01	6	3	27F	NO		VT-1		
2SW-1213				205342-01	4	3	27F & 27C	YES	IWD-1220(a)	VT-2 only		
2SW-1214				205342-01	6	3	27F	NO		VT-1		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SW-1216				205342-01	1	3	27F	YES	MD-1220(s)	VT-2 only		
2SW-1218				205342-01	6	3	27F	NO		VT-1		
2SW-1218				205342-01	4	3	27F & 27C	YES	MD-1220(s)	VT-2 only		
2SW-1219				205342-01	6	3	27F	NO		VT-1		
2SW-1220				205342-01	8	3	27F	NO		VT-1		
2SW-1222				205342-06	16 & 6	3	27G	NO		VT-1		
2SW-1223				205342-06	10	3	27G	NO		VT-1		
2SW-1224				205342-02	3/4	3	27F	YES	MD-1220(s)	VT-2 only		
2SW-1225				205342-01	1/2 & 3/4	3	27F	YES	MD-1220(s)	VT-2 only		
2SW-1226				205342-03	2	3	27F	YES	MD-1220(s)	VT-2 only		
2SW-1227				205342-03	2	3	27G	YES	MD-1220(s)	VT-2 only		
2SW-1230				205342-01	24	3	27F	NO		VT-1		
2SW-1230				205342-01	3 & 1	3	27F & 27C	YES	MD-1220(s)	VT-2 only		
2SW-1231				205342-03	24, 22 & 6	3	27F & 27C	NO		VT-1		
2SW-1233				205342-02	1-1/2	3	27F	YES	MD-1220(s)	VT-2 only		
2SW-1234				205342-06	10 & 8	3	27F	NO		VT-1		
2SW-1235				205342-06	10	2	27J	NO			CHR < 3/8".	Need to add welds and supports to the database.
2SW-1236				205342-06	10	2	27J	NO			CHR < 3/8".	Need to add welds and supports to the database.
2SW-1237				205342-06	10 & 8	3	27G	NO		VT-1		
2SW-1238				205342-06	10 & 8	3	27F	NO		VT-1		
2SW-1238				205342-06	10	2	27J	NO			CHR < 3/8".	Need to add welds and supports to the database.
2SW-1240				205342-06	10	2	27J	NO			CHR < 3/8".	Need to add welds and supports to the database.
2SW-1241				205342-06	10 & 8	3	27G	NO		VT-1		
2SW-1242				205342-06	10 & 8	3	27F	NO		VT-1		
2SW-1243				205342-06	10	2	27J	NO			CHR < 3/8".	Need to add welds and supports to the database.
2SW-1244				205342-06	10	2	27J	NO			CHR < 3/8".	Need to add welds and supports to the database.
2SW-1245				205342-06	10 & 8	3	27G	NO		VT-1		
2SW-1246				205342-06	10 & 8	3	27F	NO		VT-1		
2SW-1247				205342-06	10	2	27J	NO			CHR < 3/8".	Need to add welds and supports to the database.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SW-1248				205342-06	10	2	27J	NO			CHR < 3/8".	Need to add welds and supports to the database.
2SW-1249				205342-06	10 & 8	3	27G	NO		VT-1		
2SW-1250				205342-06	10 & 8	3	27F	NO		VT-1		
2SW-1251				205342-06	10	2	27J	NO			CHR < 3/8".	Need to add welds and supports to the database.
2SW-1252				205342-06	10	2	27J	NO			CHR < 3/8".	Need to add welds and supports to the database.
2SW-1253				205342-06	10 & 8	3	27G	NO		VT-1		
2SW-1255				205342-03	8	3	27G	NO		VT-1		
2SW-1256				205342-03	24	3	28B	NO		VT-1		Refer to IWA-5244 for VT-2 examination of buried piping.
2SW-1257				205342-03	24	3	28B	NO		VT-1		Refer to IWA-5244 for VT-2 examination of buried piping.
2SW-1258				205342-02	24	3	28C	NO		VT-1		Refer to IWA-5244 for VT-2 examination of buried piping.
2SW-1258				205342-03	24	3	28C	NO		VT-1		Refer to IWA-5244 for VT-2 examination of buried piping.
2SW-1259				205342-03	24	3	27C & 27F	NO		VT-1		
2SW-1259				205342-05	24	3	27F	NO		VT-1		
2SW-1260				205342-03	8	3	27G	NO		VT-1		
2SW-1261				205342-03	24	3	27G	NO		VT-1		Refer to IWA-5244 for VT-2 examination of buried piping.
2SW-1262				205342-03	8	3	27G	NO		VT-1		
2SW-1264				205342-04	2	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1265				205342-02	12 & 8	3	27F	NO		VT-1		
2SW-1272				205342-01	12 & 8	3	27F	NO		VT-1		
2SW-1308				205342-05	2	3	27C & 27F	YES	IWD-1220(a)	VT-2 only		
2SW-1379				205325-02	3	3	27C			none	Removed from scope	Abandoned in Place
2SW-1379				205342-05	3		27C			none		Line abandoned in place.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SW-1440				205342-02	10	3	27F	NO		VT-1		Open ended discharge piping excluded from VT-2 exam per IWD-5240(b)
2SW-1454				205342-01	10	3	27F	NO		VT-1		Open ended discharge piping excluded from VT-2 exam per IWD-5240(b)
2SW-1466				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1467				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1468				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1469				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1470				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1471				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1472				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1473				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1474				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1475				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1476				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1477				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1478				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1479				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1480				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1481				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1482				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1483				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1484				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1485				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1486				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1487				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1488				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1489				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1490				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1491				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1492				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1493				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1494				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1495				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1496				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1497				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1498				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1499				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1500				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1501				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1502				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1503				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1504				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1505				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1506				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SW-1507				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1508				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1509				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1510				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1511				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1512				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1513				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1514				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1515				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1516				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1517				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1518				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1519				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1520				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1521				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1522				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1523				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1524				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1525				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1526				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1527				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1528				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1529				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1530				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1531				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1532				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1533				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1534				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1535				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1536				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1537				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1538				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1539				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1540				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1541				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1542				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1543				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1544				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1545				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1546				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1547				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1548				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1549				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1550				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1551				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1552				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1553				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1554				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1555				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1556				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1557				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SW-1558				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1559				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1560				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1561				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1562				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1563				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1564				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1565				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1566				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1567				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1568				205342-05	16 & 6	3	27G	NO		VT-1		
2SW-1568				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1569				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1570				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1571				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1572				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1573				205342-06	3	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1574				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1575				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1576				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1577				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1578				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1579				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1580				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1581				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1582				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1583				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1584				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1585				205342-06	3	3	27G	YES	IWD-1220(a)	VT-2 only		
2SW-1586				205342-06	16	3	27G	NO		VT-1		
2SW-1586				205342-06	16	3	27G	NO		VT-1		
2SW-1587				205342-02	26	3	27C	NO	in pipe tunnel	VT-1		
2SW-1588				205342-01	26	3	27C	NO		VT-1	in pipe tunnel	
2SW-1589				205342-03	24	3	28C	NO		VT-1		Refer to IWA-5244 for VT-2 examination of buried piping.
2SW-1589				205342-01	24	3	28C	YES	IWD-1220(d)	VT-2 only		Refer to IWA-5244 for VT-2 examination of buried piping.
2SW-1782				205342-02	24	3	27F & 27C	NO		VT-1		
2SW-1782				205342-02	3 & 1	3	27F & 27C	YES	IWD-1220(a)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2SW-1789				205209-02	24	3	28B	NO		VT-1	Ref. DWG 219563, Sect. 2-2	Refer to IWA-5244 for VT-2 examination of buried piping. Note: A boundary drawing was not generated for this portion of line.
2SW-1789				205342-03	24	3	28B	NO		VT-1		Refer to IWA-5244 for VT-2 examination of buried piping.
2SW-1791				205209-01	24	3	28B	NO		VT-1	Ref. DWG 219563, Sect. 2-2	Refer to IWA-5244 for VT-2
2SW-1791				205342-03	24	3	28B	NO		VT-1		Refer to IWA-5244 for VT-2
2SW-1902				205342-03	2	3	27C & 27G	YES	IWD-1220(a)	VT-2 only		
2SW-1902				205342-04	2	3	27C	YES	IWD-1220(a)	VT-2 only		
2SW-1XX1				205342-05	10	3	27F	NO		VT-1		From No.22 Accumulator
2SW-1XX1				205342-05	10	3	27F	NO		VT-1		From No.22 Accumulator
2SW-1XX2				205342-07	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1XX3				205342-07	1	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1YY1				205342-06	10	3	27F	NO		VT-1		
2SW-1YY1				205342-07	10	3	27F	NO		VT-1		
2SW-1YY2				205342-07	2	3	27F	YES	IWD-1220(a)	VT-2 only		
2SW-1YY3				205342-07	1	3	27F	YES	IWD-1220(a)	VT-2 only		
2VC-XX10				205338-02	36	2	47	YES	IWC-1222(c)	VT-2 only		Purge Supply
2VC-XX11				205338-02	10	2	47	YES	IWC-1222(c)	VT-2 only		Press. Vacuum Relief
2VC-XXX1				205338-01	1	2	47	YES	IWC-1222(a)(1)	VT-2 only		130' Airlock Sample Line
2VC-XXX2				205338-01	1	2	47	YES	IWC-1222(a)(1)	VT-2 only		130' Airlock Sample Line
2VC-XXX3				205338-01	1	2	47	YES	IWC-1222(a)(1)	VT-2 only		100' Airlock Sample Line
2VC-XXX4				205338-01	1	2	47	YES	IWC-1222(a)(1)	VT-2 only		100' Airlock Sample Line
2VC-XXX5				205338-01	3/4	2	47	YES	IWC-1222(a)(1)	VT-2 only		Cont. RMS Sample Inlet Line 22B
2VC-XXX6				205338-01	3/4	2	47	YES	IWC-1222(a)(1)	VT-2 only		Cont. RMS Sample Inlet Line 22A
2VC-XXX7				205338-01	3/4	2	47	YES	IWC-1222(a)(1)	VT-2 only		Cont. RMS Sample Outlet Line 22C

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2VC-XXX8				205338-01	3/4	2	47	YES	RWC-1222(a)(1)	VT-2 only		Cont. RMS Sample Outlet Line 22
2VC-XXX9				205338-02	3/4	2	47	YES	RWC-1222(c)	VT-2 only		Purge Exhaust
2WG-1000				205339-03	2		53T			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WG-1002				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1003				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1003				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1004				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1005				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1006				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1009				205329-01	3/4	3	53A	YES	RWD-1220(a)	VT-2 only		
2WG-1009				205340-02	3/4	3	53A	YES	RWD-1220(a)	VT-2 only		
2WG-1012				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1013				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1014				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1015				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1015				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1016				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1017				205340-02	2	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1018				205340-02	2	3	53C	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1018				205340-02	2	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1019				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1020				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1021				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1022				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1023				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1024				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1025				205340-02	1	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1026				205340-02	2	3	53C	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1027				205340-02	2	3	53C	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1028				205340-02	2	3	53C	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1029				205340-02	2	3	53C	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1035				205340-02	3/4	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1036				205340-02	2	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1042				205340-02	3/4	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1043				205340-02	3/4	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1044				205340-02	3/4	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1045				205340-02	3/4	3	53A	YES	RWC-1222(a)(1)	VT-2 only		
2WG-1047				205340-02	2	3	53A	YES	RWC-1222(a)(1)	VT-2 only		

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2WG-1049				205329-02	2		48U			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WG-1049				205340-02	2		48U			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WG-1065				205340-02	3/4	3	53A	YES	IWD-1220(a)	VT-2 only		
2WG-1066				205340-02	3/4	3	53A	YES	IWD-1220(a)	VT-2 only		
2WG-1195				205340-02	1	3	53A	YES	IWC-1222(a)(1)	VT-2 only		
2WG-1197				205340-02	1	3	53A	YES	IWC-1222(a)(1)	VT-2 only		
2WG-1198				205340-02	1	3	53A	YES	IWC-1222(a)(1)	VT-2 only		
2WG-1199				205340-02	1	3	53A	YES	IWC-1222(a)(1)	VT-2 only		
2WG-1200				205340-02	1	3	53A	YES	IWC-1222(a)(1)	VT-2 only		
2WG-1201				205340-02	1	3	53A	YES	IWC-1222(a)(1)	VT-2 only		
2WG-1202				205340-02	1	3	53A	YES	IWC-1222(a)(1)	VT-2 only		
2WG-1203				205340-02	1	3	53A	YES	IWC-1222(a)(1)	VT-2 only		
2WL-1008				205339-02	6		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1009				205339-02	6		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1010				205339-02	6		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1011				205339-03	1	2	53M	YES	IWC-1222(a)(1)	VT-2 only	PEN 21	

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2WL-1011				205339-02	2		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1012				205339-02	2		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1013				205339-02	2		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1014				205339-03	3/4	2	53J	YES	IWC-1222(a)(1)	VT-2 only	PEN 18	
2WL-1053				205339-01	2	3	27B	YES	IWD-1220(a)	VT-2 only		
2WL-1053				205342-04	2	3	27B/27C	YES	IWD-1220(a)	VT-2 only		
2WL-1064				205339-03	3	2	53H	YES	IWC-1222(a)(1)	VT-2 only	PEN 27	
2WL-1072				205339-03	3	2	53J	YES	IWC-1222(a)(1)	VT-2 only	PEN 45	
2WL-1097				205339-03	1	2	53M	YES	IWC-1222(a)(1)	VT-2 only	PEN 21	
2WL-1098				205339-03	1		53T			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1108				205339-03	6	2	55C	YES	IWC-1222(d)	VT-2 only		
2WL-1109				205339-03	4	2	55C	YES	IWC-1222(a)(1)	VT-2 only		
2WL-1111				205333-01	3	2	55C	YES	IWC-1222(a)(1)	VT-2 only		
2WL-1111				205339-03	3	2	55C	YES	IWC-1222(a)(1)	VT-2 only		
2WL-1161				205339-02	1		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.

Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number in Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2WL-1162				205339-02	1		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1163				205339-02	1		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1174				205339-02	1		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1188				205339-02	1		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1188(U1)				205334-01	8	3	49A	YES	MWD-1220(c)	VT-2 only		
2WL-1189				205339-02	1		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1190				205339-02	2		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1218				205339-01	2		53T			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.

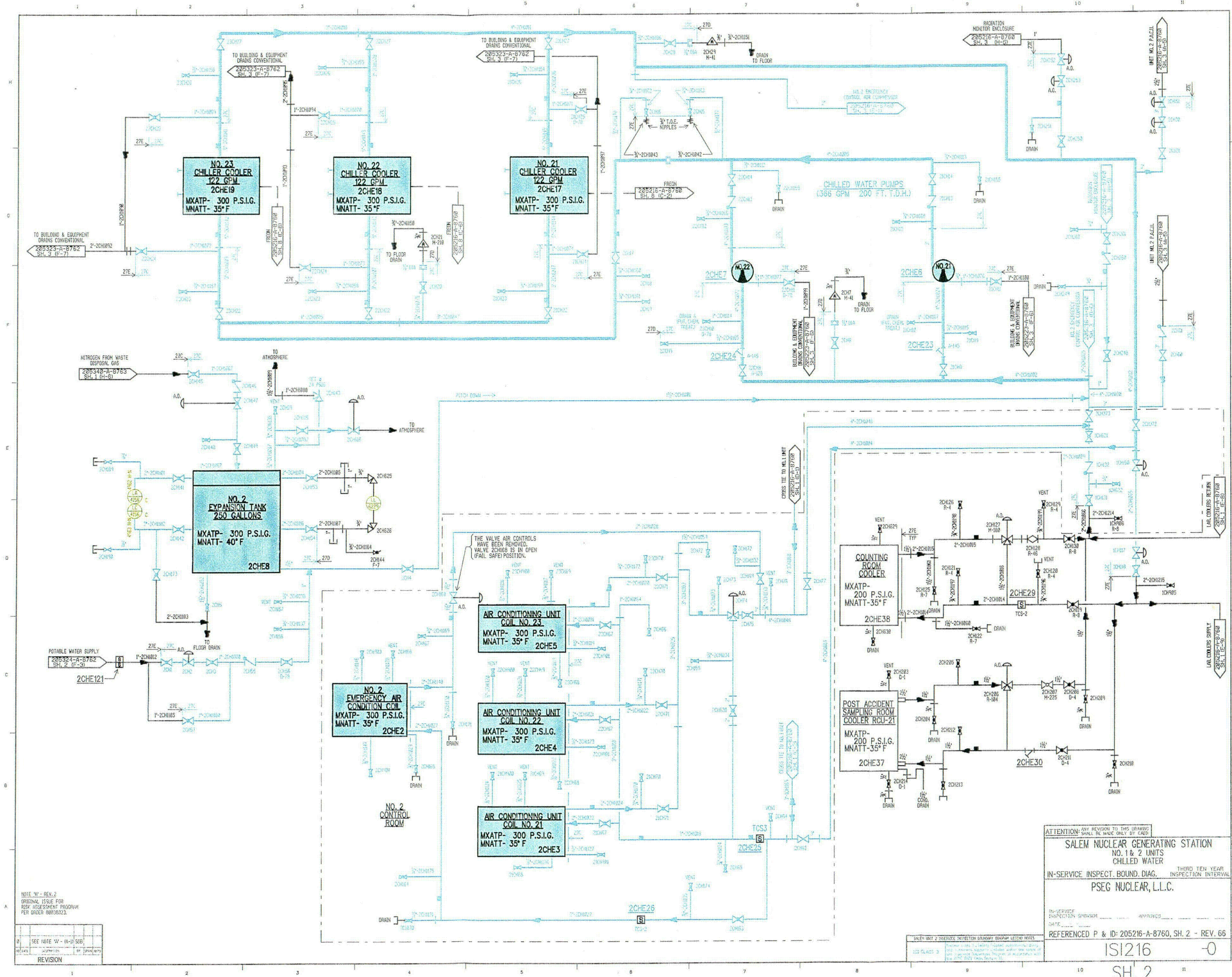
Appendix A Salem Unit 2 Boundary Basis Table - Piping

Line Number On ISO & P&ID	ISI Line Number In Long Term Plan	Isometric Drawing No.	ISI Sketch Number	P&ID Number	Size	Class	Piping Spec Group	Exempt From NDE or VT-1 ?	Basis For Exemption	Exam Type	Comments	Justification
2WL-1220				205339-01	2		53T			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1269				205339-02	1		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-1284				205339-03	4	2	55C	YES	IWC-1222(a)(1)	VT-2 only		
2WL-1309				205339-02	2 & 1-1/2		53D			VT-2 only	AE/VT	Not Section XI Scope-NSR, however part of NUREG-0578 commitment to perform VT-2 each refuel.
2WL-XXX1				205327-01	1-1/2 & 3/4	3	53C	YES	IWD-1220(a)	none	Ref. VTD 239598	Open ended drain piping excluded from VT-2 exam per IWD-5240(b). Note: A boundary drawing was not generated for this line.
2WR-1048				205328-01	2		48P				AE/VT Out of Scope-NSR	Part of SPT CV-001
2WR-1073				205301-01	3	2	48J	YES	IWC-1222(a)(1)	VT-2 only		

APPENDIX B

Inservice Inspection Boundary Diagrams

Boundary Diagram No.	Sheet(s) No.	System Description
ISI 216	2-3	Chilled Water
ISI 222	2	Fire Protection
ISI 246	2	Demineralized Water- Restricted Areas
ISI 301	1-3	Reactor Coolant
ISI 302	3	Steam Generator Feed & Condensate
ISI 303	1-2 & 6	Main Reheat & Turbine By-Pass Steam
ISI 317	1-2	Compressed Air
ISI 325	1-2	Steam Generator Drains and Blowdown
ISI 328	1-3	Chemical and Volume Control Operation
ISI 329	1-2	Chemical and Volume Control Boric Acid Recovery
ISI 331	1-3	Component Cooling
ISI 332	1-2	Residual Heat Removal
ISI 333	1	Spent Fuel Cooling
ISI 334	1-4	Safety Injection
ISI 335	1	Containment Spray
ISI 336	1	Auxiliary Feedwater
ISI 338	1-2	Reactor Containment- Ventilation
ISI 339	1-3	Waste Disposal - Liquid
ISI 340	2-3	Waste Disposal - Gas
ISI 342	1-7	Service Water Nuclear Area
ISI 344	1 & 3	Sampling
ISI 347	1 & 3	Control Air



NOTE: W-REV. 2
ORIGINAL ISSUE FOR
REVISION PROGRAM
PER ORDER 800-2023.

REV	DATE	DESCRIPTION	BY
0		SEE NOTE W- (A-1) SUB	
1		REVISION	

ATTENTION: ANY REVISION TO THIS DRAWING
SHALL BE MADE ONLY BY CAE.

SALEM NUCLEAR GENERATING STATION
NO. 1 & 2 UNITS
CHILLED WATER
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR
PSEG NUCLEAR, L.L.C. INSPECTION INTERVAL

IN-SERVICE
INSPECTION SCHEDULE
DATE: _____

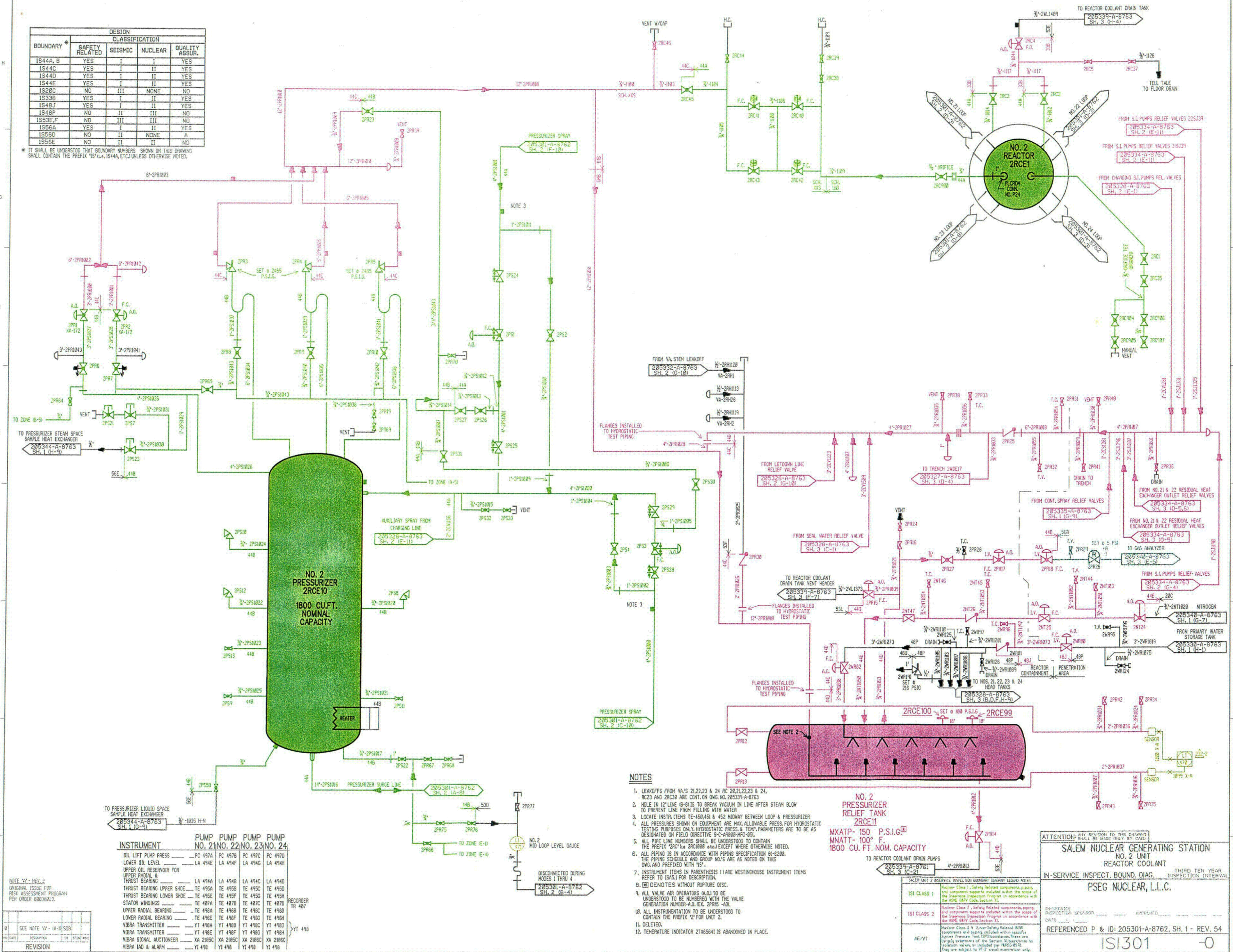
REFERENCED P & ID: 205216-A-8760, SH. 2 - REV. 66

SALEM UNIT 2 INSPECTION BOUNDARY DIAGRAM LISTING NOTES
CLASS 3

ISI216 -0
SH. 2

DESIGN CLASSIFICATION				
BOUNDARY *	SAFETY RELATED	SEISMIC	NUCLEAR	QUALITY ASSUR.
IS44A, B	YES	I	I	YES
IS44C	YES	I	II	YES
IS44D	YES	I	II	YES
IS44E	YES	I	II	YES
IS20C	NO	III	NONE	NO
IS33B	YES	I	II	YES
IS48J	YES	I	II	YES
IS48P	NO	III	III	NO
IS53E, F	NO	III	III	NO
IS66A	YES	I	II	YES
IS66D	NO	II	NONE	A
IS66E	NO	II	II	NO

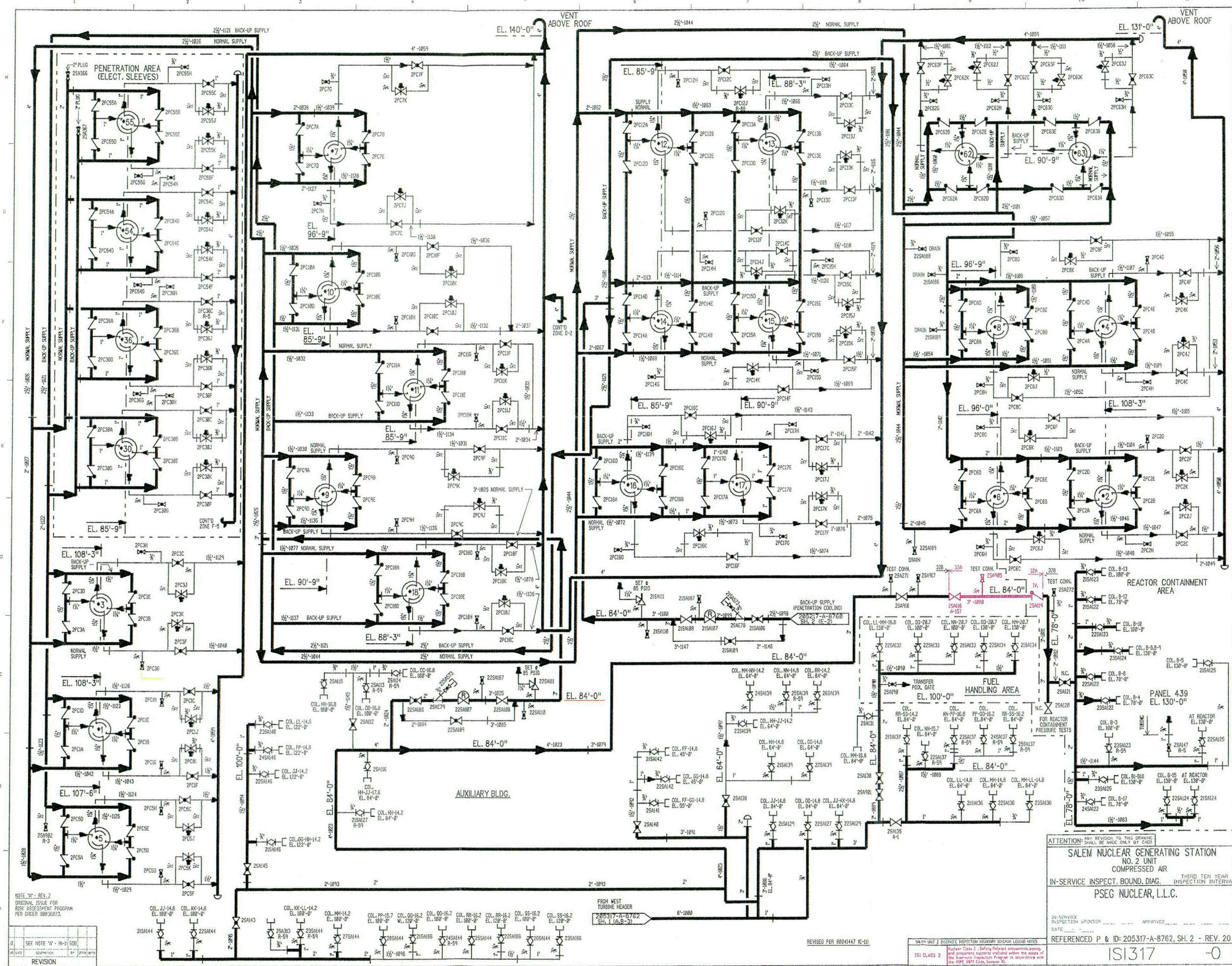
* IT SHALL BE UNDERSTOOD THAT BOUNDARY NUMBERS SHOWN ON THIS DRAWING SHALL CONTAIN THE PREFIX 'IS' (e.g., IS44A, ETC.) UNLESS OTHERWISE NOTED.



PUMP NO. 21 NO. 22 NO. 23 NO. 24			
LIFT PUMP PRESS	PC 497A	PC 497B	PC 497C
LOWER OIL LEVEL	LA 494E	LA 494F	LA 494G
UPPER OIL RESERVOIR FOR UPPER RADIAL & THRUST BEARING	LA 494A	LA 494B	LA 494C
THRUST BEARING UPPER SHOE	TE 495A	TE 495B	TE 495C
THRUST BEARING LOWER SHOE	TE 495E	TE 495F	TE 495G
STATOR WINDINGS	TE 497A	TE 497B	TE 497C
UPPER RADIAL BEARING	TE 498A	TE 498B	TE 498C
LOWER RADIAL BEARING	TE 498E	TE 498F	TE 498G
VIBRA TRANSMITTER	YT 498A	YT 498B	YT 498C
VIBRA TRANSMITTER	YT 498E	YT 498F	YT 498G
VIBRA SIGNAL AUCTIONEER	XA 2185C	XA 2185D	XA 2185E
VIBRA IAD & ALARM	YT 498	YT 498	YT 498

- NOTES**
1. LEAKOFFS FROM VALVES 21.22.23 & 24, RC23 AND 2RCE10 ARE CONT. ON DWG. NO. 205334-A-8763.
 2. HOLE IN 12" LINE (B-1) IS TO BREAK VACUUM IN LINE AFTER STEAM BLOW TO PREVENT LINE FROM FILLING WITH WATER.
 3. LOCATE INSTR. ITEMS TE-498A & 498B MIDWAY BETWEEN LOOP & PRESSURIZER.
 4. ALL PRESSURES SHOWN ON EQUIPMENT ARE MAX. ALLOWABLE PRESS. FOR HYDROSTATIC TESTING PURPOSES ONLY. HYDROSTATIC PRESS. & TEMP. PARAMETERS ARE TO BE AS DESIGNATED ON FIELD DIRECTIVE 9-C-40000-H-001.
 5. ALL PIPE LINE NUMBERS SHALL BE UNDERSTOOD TO CONTAIN THE PREFIX '2RCE' (e.g., 2RCE10) EXCEPT WHERE OTHERWISE NOTED.
 6. ALL PIPING IS IN ACCORDANCE WITH PIPING SPECIFICATION 81-0200. THE PIPING SCHEDULE AND GROUP NO.'S ARE AS NOTED ON THIS DWG. AND PREFIXED WITH 'N'.
 7. INSTRUMENT ITEMS IN PARENTHESIS () ARE WESTINGHOUSE INSTRUMENT ITEMS REFER TO IS44.1 FOR DESCRIPTION.
 8. (B) VALVE NOTES WITHOUT ROUTINE DISC.
 9. ALL VALVE AND OPERATORS (A.O.) TO BE UNDERSTOOD TO BE NUMBERED WITH THE VALVE GENERATION NUMBER-A.O. EX. 2RCE10-A.O.
 10. ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX '2RCE' FOR UNIT 2.
 11. DELETED.
 12. TEMPERATURE INDICATOR 27A5541 IS ABANDONED IN PLACE.

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
REACTOR COOLANT
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL
PSEG NUCLEAR, L.L.C.
REFERENCED P & ID: 205301-A-8762, SH. 1 - REV. 54
ISI301 - 0
SH. 1 OF 3



NOTE: "A" - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 38036023.

REVISION	DATE	BY	CHKD
0	SEE NOTE "A" - REV. 2		

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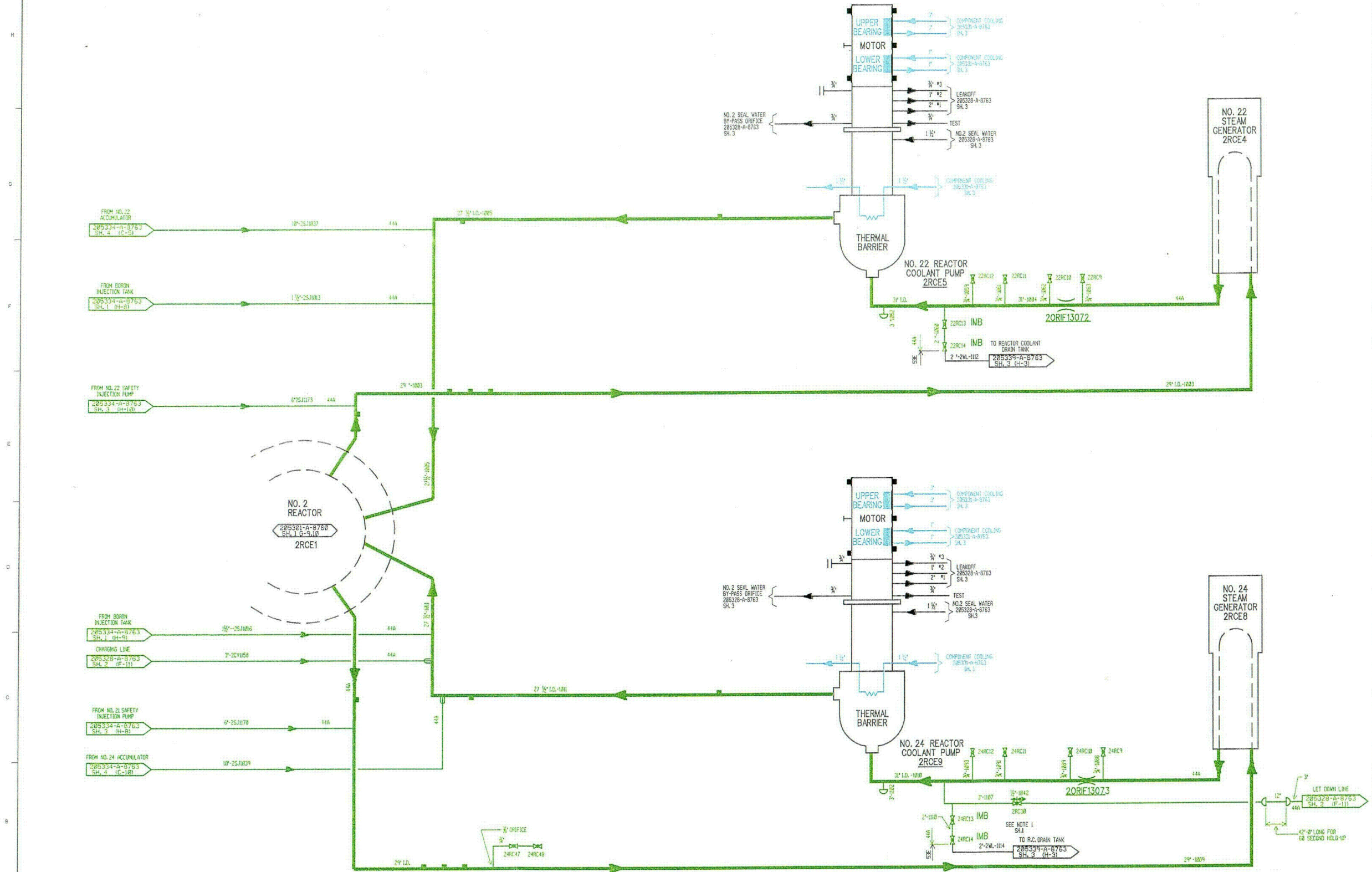
SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
COMPRESSED AIR
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL
PSEG NUCLEAR, L.L.C.

IN-SERVICE INSPECTION SPONSOR: _____ APPROVED: _____
DATE: _____

REFERENCED P & ID: 205317-A-8762, SH. 2 - REV. 20

ISI317 - 0

SH. 2



NOTE: "A" - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 60030023

Q	SEE NOTE "A" - (A) (S) (S)	REVISION
1		
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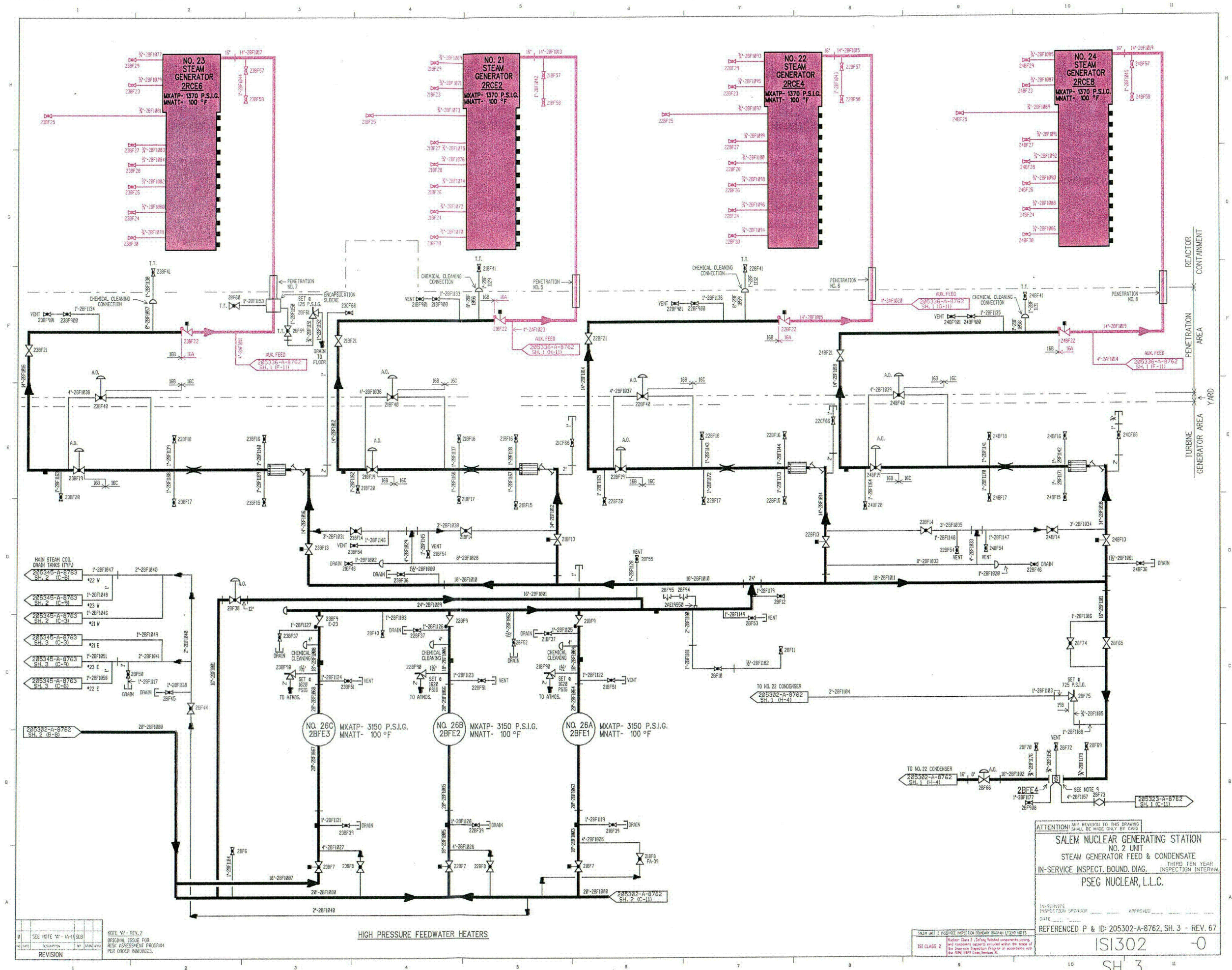
SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
REACTOR COOLANT
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL
PSEG NUCLEAR, L.L.C.

IN-SERVICE INSPECTION DISPOSITION: _____ APPROVED: _____
DATE: _____

REFERENCED P & ID: 205301-A-8762, SH. 3 - REV. 29

ISI301 -0

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEGEND NOTES
1ST CLASS 1: Nuclear Class 1, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME NQA-1 Code Section 4.2.
2ND CLASS 2: Components and piping not subject to the ASME NQA-1 Code Section 4.2, but which are included in the Inservice Inspection Program in accordance with the ASME NQA-1 Code Section 4.2.
3RD CLASS 3: Components and piping not subject to the ASME NQA-1 Code Section 4.2, and which are not included in the Inservice Inspection Program in accordance with the ASME NQA-1 Code Section 4.2.



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SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
STEAM GENERATOR FEED & CONDENSATE
IN-SERVICE INSPECT. BOUND. DIAG.
PSEG NUCLEAR, L.L.C.

THIRD TEN YEAR INSPECTION INTERVAL

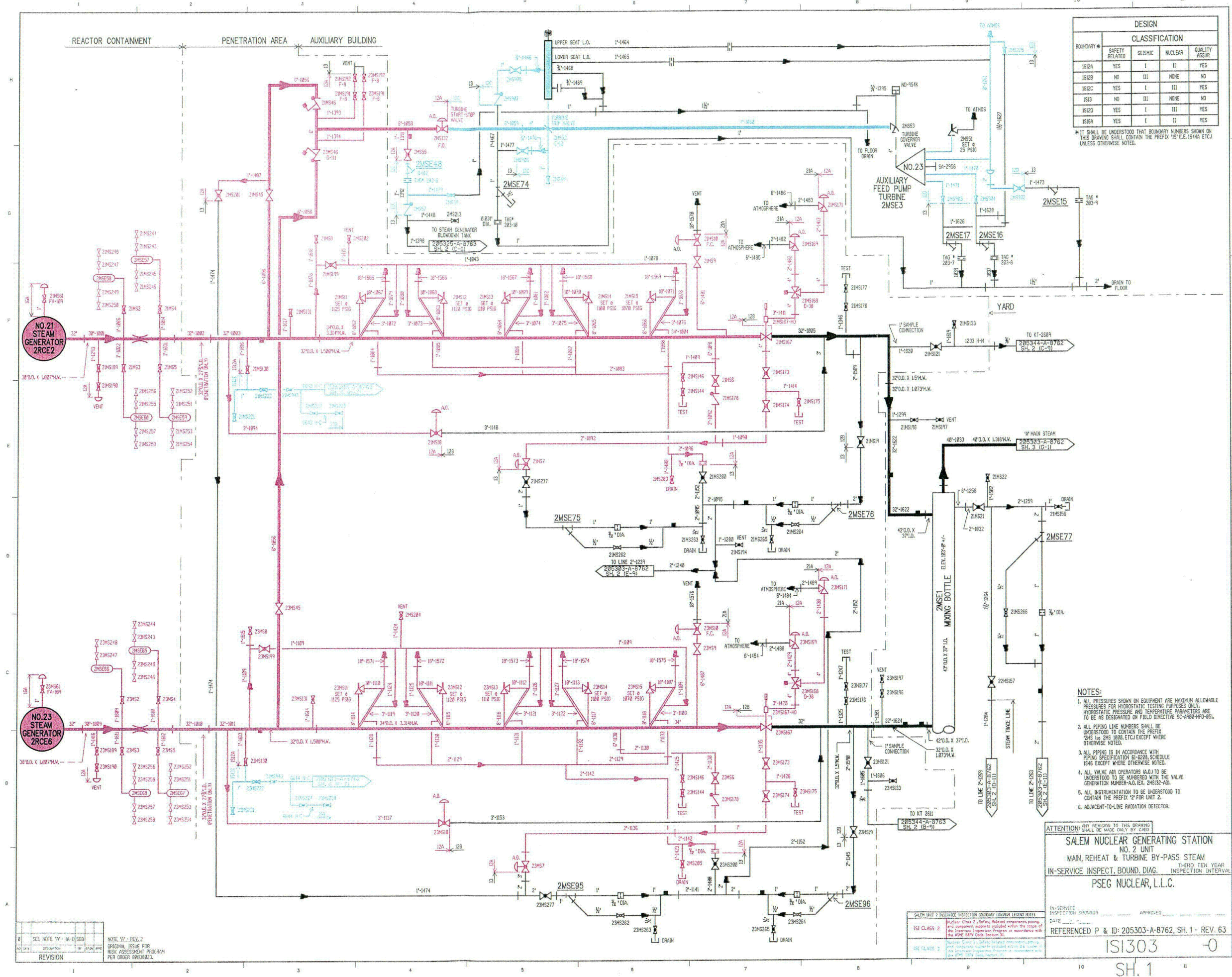
IN-SERVICE INSPECTION SPONSOR: _____
DATE: _____
APPROVED: _____

REFERENCED P & ID: 205302-A-8762, SH. 3 - REV. 67

151302 -0

SH. 3

REV	DATE	DESCRIPTION	BY	APP'D
0		SEE NOTE "A" - (A-1) SUB		
1		ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER 90N3023.		



DESIGN				
CLASSIFICATION				
BOUNDARY #	SAFETY RELATED	SEISMIC	NUCLEAR	QUALITY ASSUR
IS12A	YES	I	II	YES
IS12B	NO	III	NONE	NO
IS12C	YES	I	III	YES
IS13	NO	III	NONE	NO
IS12D	YES	I	III	YES
IS16A	YES	I	II	YES

* IT SHALL BE UNDERSTOOD THAT BOUNDARY NUMBERS SHOWN ON THIS DRAWING SHALL CONTAIN THE PREFIX 'IS' (I.E. IS14A ETC.) UNLESS OTHERWISE NOTED.

- NOTES:
1. ALL PRESSURES SHOWN ON EQUIPMENT ARE MAXIMUM ALLOWABLE PRESSURES FOR HYDROSTATIC TESTING PURPOSES ONLY. HYDROSTATIC PRESSURE AND TEMPERATURE PARAMETERS ARE TO BE AS DESIGNATED ON FIELD DIRECTIVE SC-A800-400-B51.
 2. ALL PIPING LINE NUMBERS SHALL BE UNDERSTOOD TO CONTAIN THE PREFIX '2MS' (I.E. 2MS1000 ETC.) EXCEPT WHERE OTHERWISE NOTED.
 3. ALL PIPING IS IN ACCORDANCE WITH PIPING SPECIFICATION 61-8208 SCHEDULE 10-40 EXCEPT WHERE OTHERWISE NOTED.
 4. ALL VALVE AND OPERATOR LOGS TO BE UNDERSTOOD TO BE NUMBERED WITH THE VALVE GENERATION NUMBER-A.O. (EX. 2MS102-A.O.).
 5. ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX '2' FOR UNIT 2.
 6. ADJACENT-TO-LINE RADIATION DETECTOR.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CADD.

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
MAIN, REHEAT & TURBINE BY-PASS STEAM
IN-SERVICE INSPECT. BOUND. DIAG. INSPECTION INTERVAL
PSEG NUCLEAR, L.L.C.

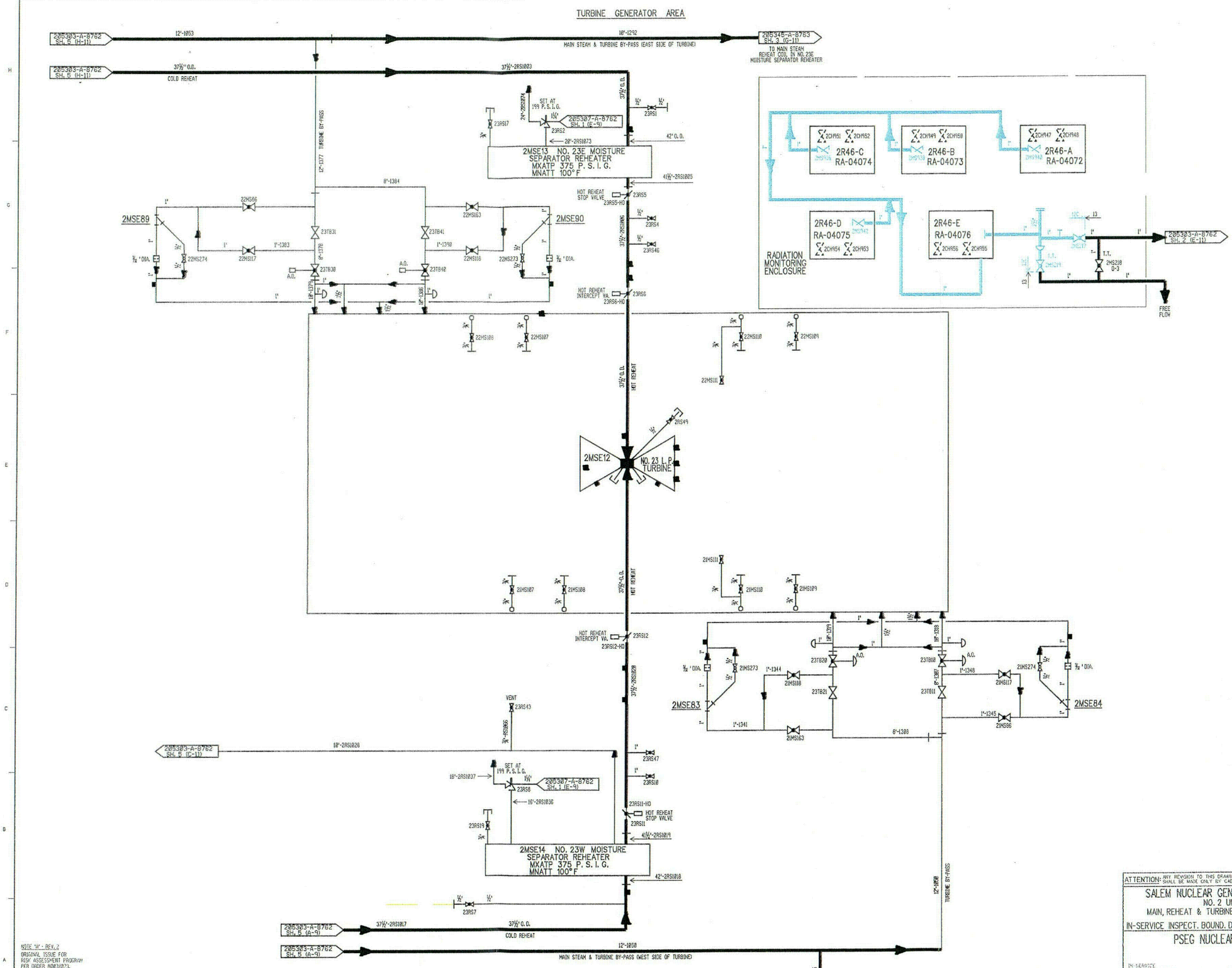
IN-SERVICE INSPECTION (SCHEDULE) APPROVED: _____
DATE: _____

REFERENCED P & ID: 205303-A-8762, SH. 1 - REV. 63

IS1303 -0

SH. 1

REVISION	DESCRIPTION	DATE
1	SEE NOTE '1' - (A-1) SUB	
2	NOTE '1' - REV. 2	
3	ORIGINAL ISSUE FOR RISK ASSESSMENT PROGRAM PER ORDER BN038023.	



NOTE: 'N' - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 8003023.

REVISION	DESCRIPTION	DATE	BY	CHKD
1	SEE NOTE 'N' - (A-1) 508			

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY DIAGRAM LEADS NOTES
1ST CLASS: 3

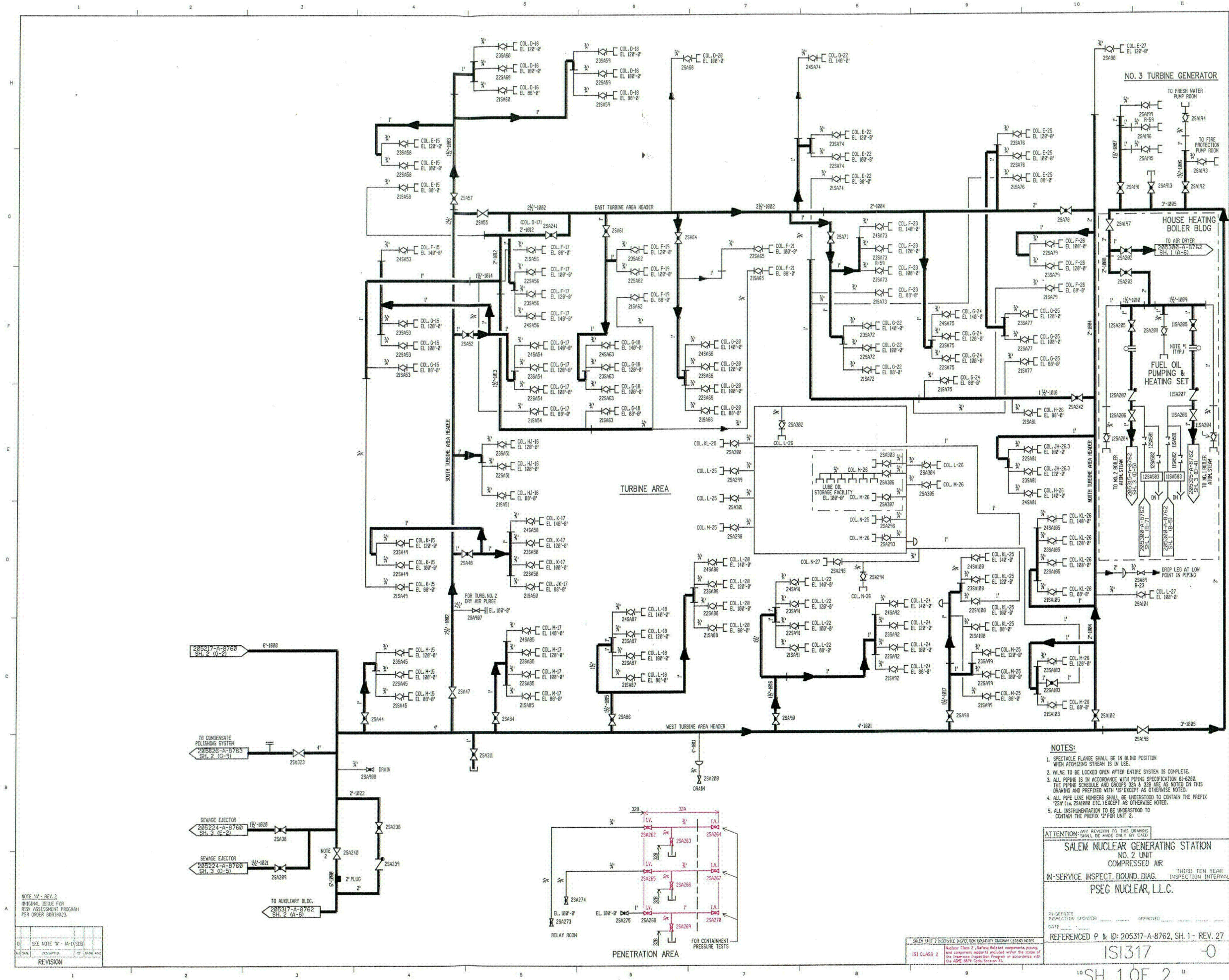
ATTENTION: ANY REVISION TO THIS DRAWING
SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
MAIN, REHEAT & TURBINE BY-PASS STEAM
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR
INSPECTION INTERVAL
PSEG NUCLEAR, L.L.C.

IN SERVICE
INSPECTION SPONSOR: _____
DATE: _____
APPROVED: _____

REFERENCED P & ID: 205303-A-8762, SH. 6 - REV. 50

ISI303 -0
SH. 6



NOTES:

1. SPECTACLE FLANGE SHALL BE IN BLIND POSITION WHEN ATOMIZING STREAM IS IN USE.
2. VALVE TO BE LOCKED OPEN AFTER ENTIRE SYSTEM IS COMPLETE.
3. ALL PIPING IS IN ACCORDANCE WITH PIPING SPECIFICATION 61-6200. THE PIPING SCHEDULE AND GROUPS FOR A & B ARE AS NOTED ON THIS DRAWING AND PREVIEWED WITH 105 EXCEPT AS OTHERWISE NOTED.
4. ALL PIPE LINE NUMBERS SHALL BE UNDERSTOOD TO CONTAIN THE PREFIX "25A" (e.g., 25A1000 ETC.) EXCEPT AS OTHERWISE NOTED.
5. ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX "2" FOR UNIT 2.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAD.

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
COMPRESSED AIR
IN-SERVICE INSPECT. BOX AND DIAG. THIRD TEN YEAR INSPECTION INTERVAL
PSEG NUCLEAR, L.L.C.

IN-SERVICE INSPECTION EXPONDER: _____ APPROVED: _____
DATE: _____

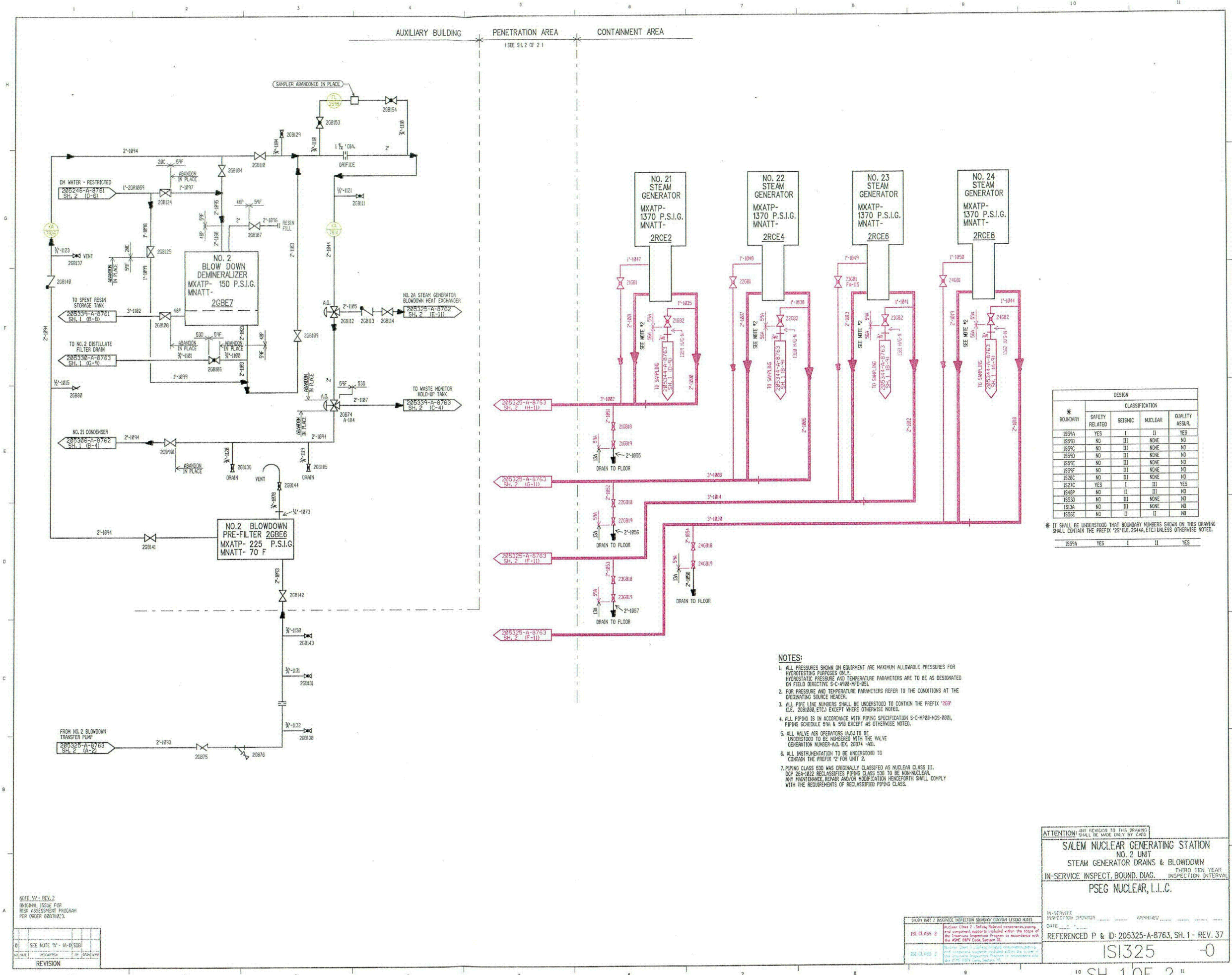
REFERENCED P & ID: 205317-A-8762, SH. 1 - REV. 27

ISI CLASS 2

SH. 1 OF 2

NOTE: REV. 2
ORIGINAL ISSUE FOR
REVISION PROGRAM
PER ORDER 8003823.

REV	DATE	DESCRIPTION
0	SEE NOTE "W" - (A-H) (SIB)	
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* BOUNDARY	DESIGN CLASSIFICATION			
	SAFETY RELATED	SEISMIC	NUCLEAR	QUALITY ASSUR.
1559A	YES	I	II	YES
1559B	NO	III	NONE	NO
1559C	NO	III	NONE	NO
1559D	NO	III	NONE	NO
1559E	NO	III	NONE	NO
1559F	NO	III	NONE	NO
1559G	NO	III	NONE	NO
1559H	YES	I	III	YES
1559I	NO	III	NONE	NO
1559J	NO	III	NONE	NO
1559K	NO	III	NONE	NO
1559L	NO	III	NONE	NO
1559M	NO	III	NONE	NO
1559N	NO	III	NONE	NO

* IT SHALL BE UNDERSTOOD THAT BOUNDARY NUMBERS SHOWN ON THIS DRAWING SHALL CONTAIN THE PREFIX "25" (I.E. 2544A, ETC.) UNLESS OTHERWISE NOTED.

- NOTES:
- ALL PRESSURES SHOWN ON EQUIPMENT ARE MAXIMUM ALLOWABLE PRESSURES FOR HYDROTESTING PURPOSES ONLY. HYDROSTATIC PRESSURE AND TEMPERATURE PARAMETERS ARE TO BE AS DESIGNATED ON FIELD DIRECTIVE 5-C-400-MPD-051.
 - FOR PRESSURE AND TEMPERATURE PARAMETERS REFER TO THE CONDITIONS AT THE ORIGINATING SOURCE HEADER.
 - ALL PIPE LINE NUMBERS SHALL BE UNDERSTOOD TO CONTAIN THE PREFIX "2GB" (I.E. 2GB100, ETC.) EXCEPT WHERE OTHERWISE NOTED.
 - ALL PIPING IS IN ACCORDANCE WITH PIPING SPECIFICATION 5-C-MP22-NGS-000, PIPING SCHEDULE 50A & 50B EXCEPT AS OTHERWISE NOTED.
 - ALL VALVE AIR OPERATORS (A.O.) TO BE UNDERSTOOD TO BE NUMBERED WITH THE VALVE GENERATION NUMBER-A.O. (EX. 20874 -A.O.).
 - ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX "2" FOR UNIT 2.
 - PIPING CLASS 530 WAS ORIGINALLY CLASSIFIED AS NUCLEAR CLASS III. DCP 25A-1022 RECLASSIFIES PIPING CLASS 530 TO BE NON-NUCLEAR. ANY MAINTENANCE, REPAIR AND/OR MODIFICATION HENCEFORTH SHALL COMPLY WITH THE REQUIREMENTS OF RECLASSIFIED PIPING CLASS.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAD

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
STEAM GENERATOR DRAINS & BLOWDOWN
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR INSPECTION INTERVAL
PSEG NUCLEAR, L.L.C.

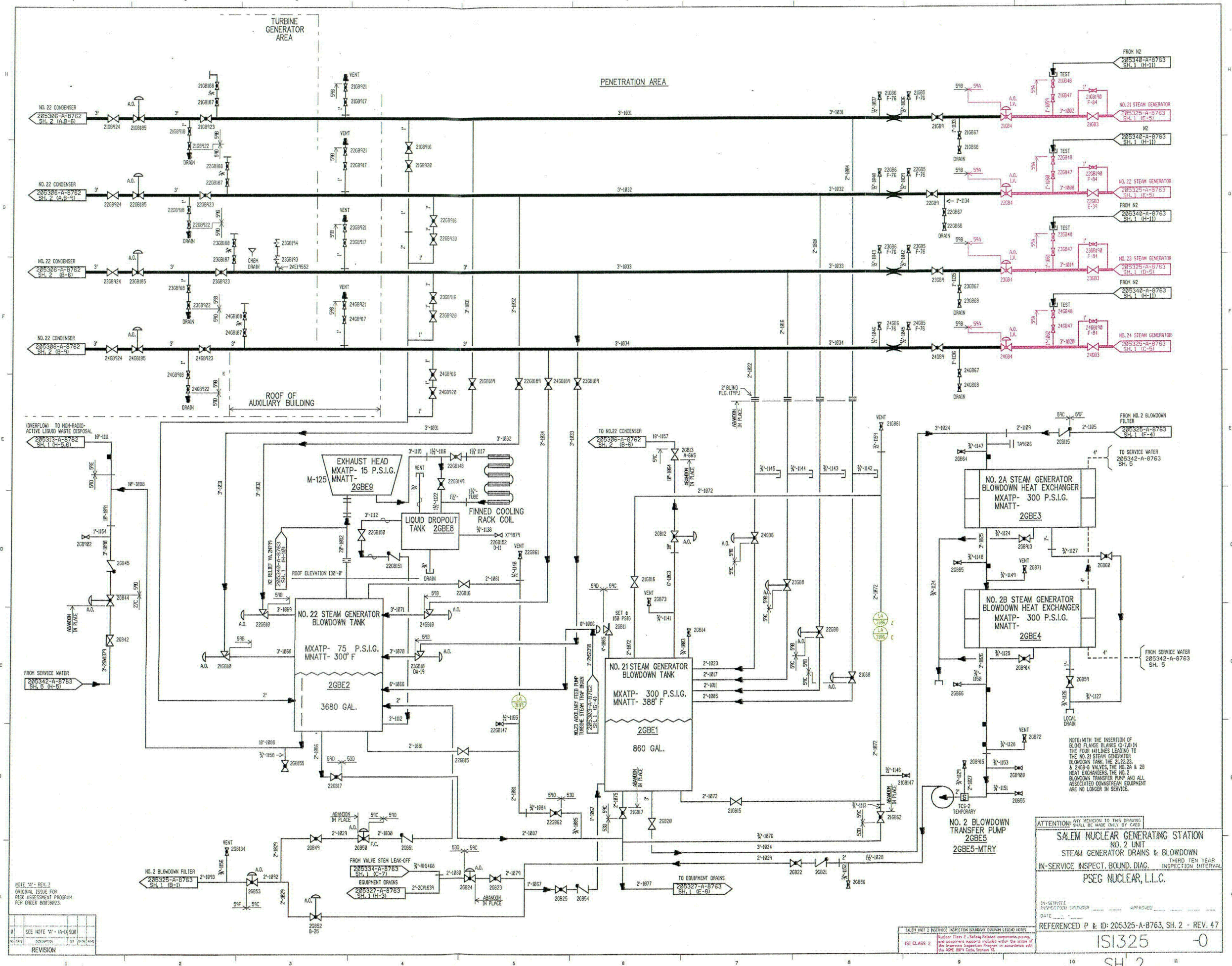
IN-SERVICE INSPECTION SCHEDULE: _____ APPROVED: _____
DATE: _____

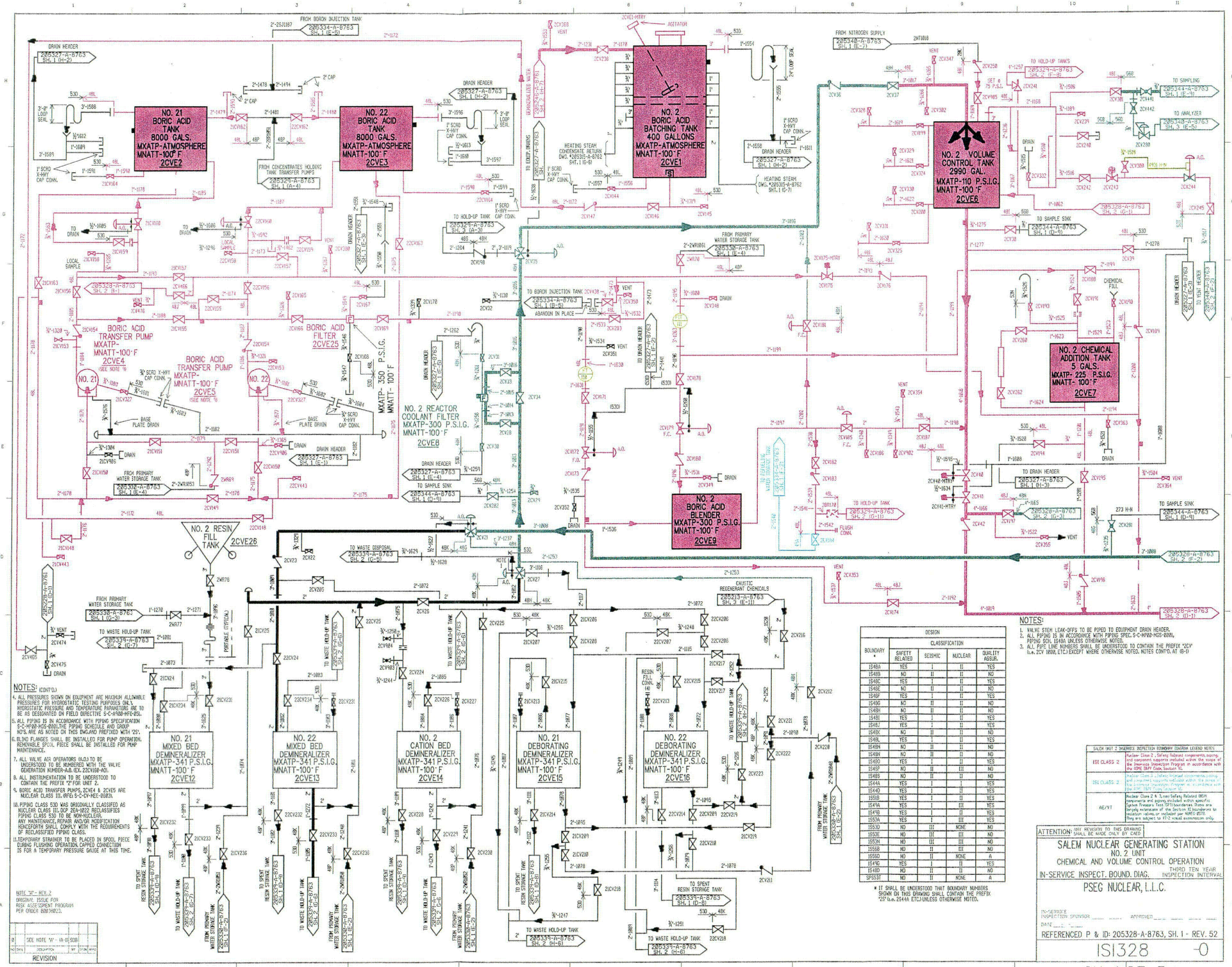
REFERENCED P & ID: 205325-A-8763, SH. 1 - REV. 37

ISI325 -0

NOTE: "W" - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 00030623

NO.	DATE	DESCRIPTION	BY	CHKD
1		SEE NOTE "W" - (A-1) SUB		
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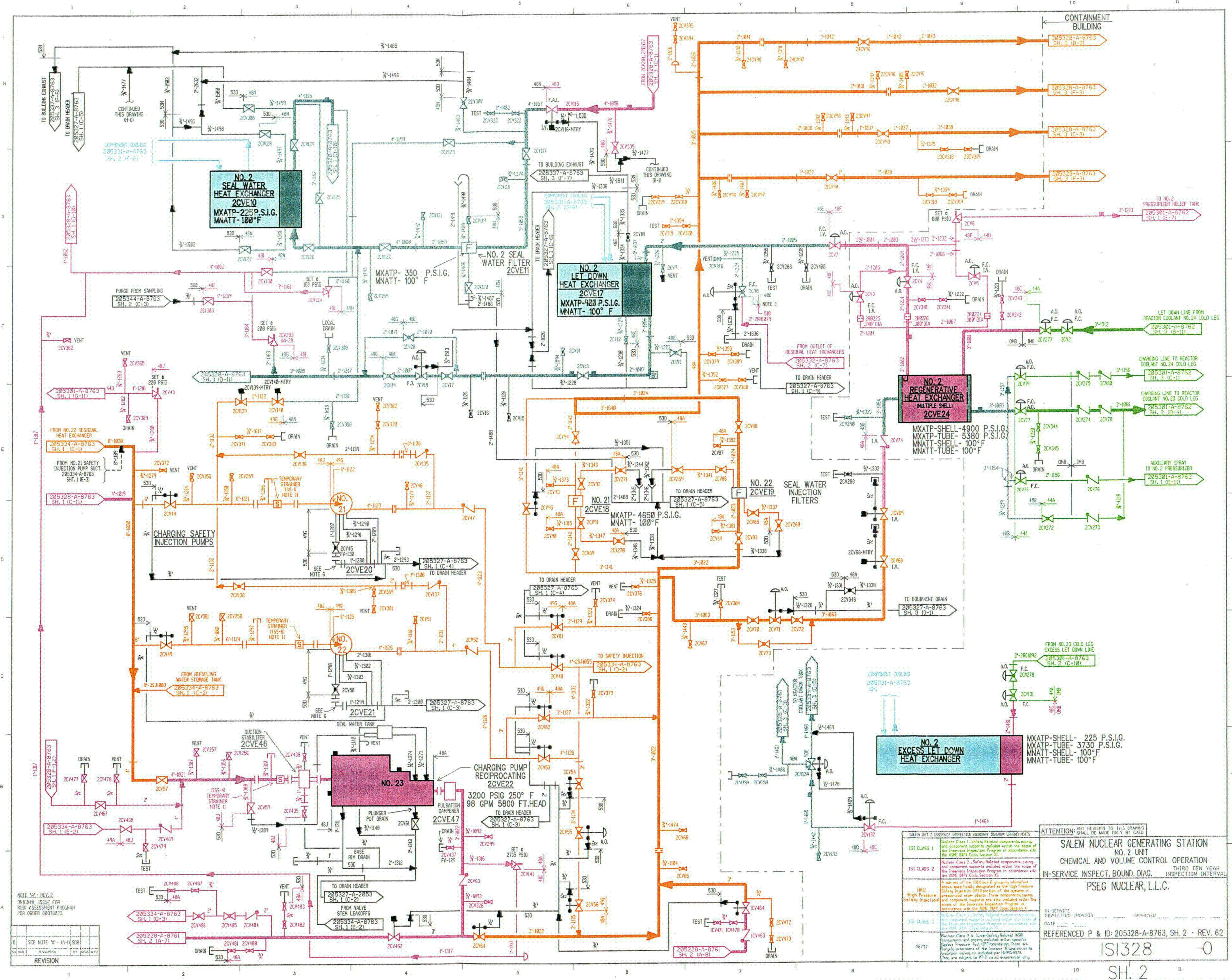


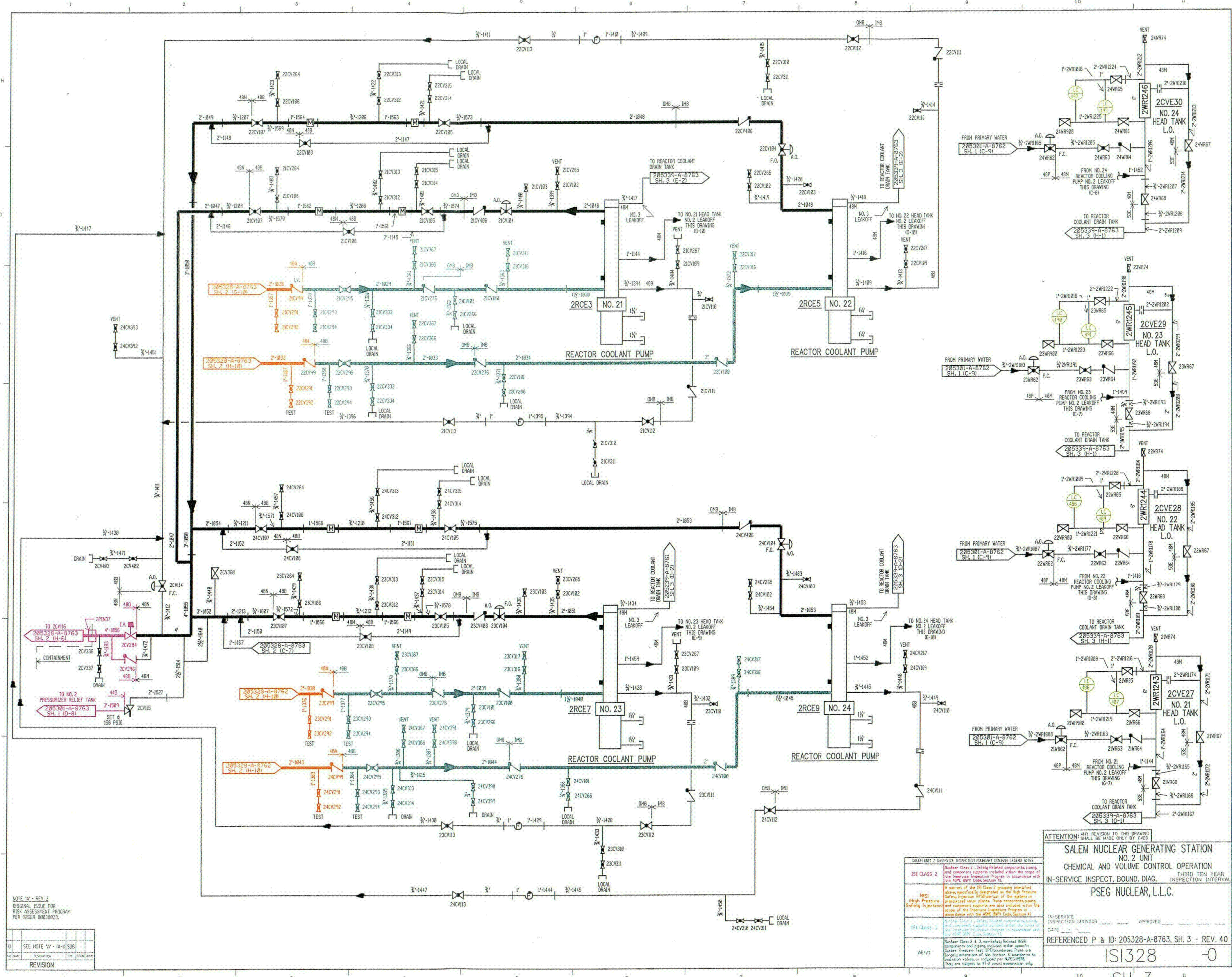
NOTES: (CONT'D.)
4. ALL PRESSURES SHOWN ON EQUIPMENT ARE MAXIMUM ALLOWABLE PRESSURES FOR HYDROSTATIC TESTING PURPOSES ONLY. HYDROSTATIC PRESSURE AND TEMPERATURE PARAMETERS ARE TO BE AS DESIGNATED ON FIELD DIRECTIVE S-C-A-800-MFD-001.
5. ALL PIPING IS IN ACCORDANCE WITH PIPING SPECIFICATION S-C-A-800-MFD-001. THE PIPING SCHEDULE AND GROUP NOS. ARE AS NOTED ON THIS DRAWING PREFIXED WITH '2'.
6. GROUND FLANGES SHALL BE INSTALLED FOR PUMP OPERATION. REMOVABLE SPOOL PIECE SHALL BE INSTALLED FOR PUMP MAINTENANCE.
7. ALL VALVE AIR OPERATORS (A.O.) TO BE UNDERSTOOD TO BE NUMBERED WITH THE VALVE GENERATION NUMBER-A.O. EX. 22CV158-A.O.
8. ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX '2' FOR UNIT 2.
9. BORIC ACID TRANSFER PUMPS, 2CV154 & 2CV155 ARE NUCLEAR CLASS III. RFEI S-C-DY-ME-0030.
10. PIPING CLASS 530 WAS ORIGINALLY CLASSIFIED AS NUCLEAR CLASS III. RFEI S-C-DY-ME-0030. PIPING CLASS 530 TO BE NON-NUCLEAR. ANY MAINTENANCE REPAIR AND/OR MODIFICATION HEREON SHALL COMPLY WITH THE REQUIREMENTS OF RECLASSIFIED PIPING CLASS.
11. TEMPORARY STRAINER TO BE PLACED IN SPOOL PIECE DURING FLUSHING OPERATION. CAPED CONNECTION IS FOR A TEMPORARY PRESSURE WEDGE AT THIS TIME.

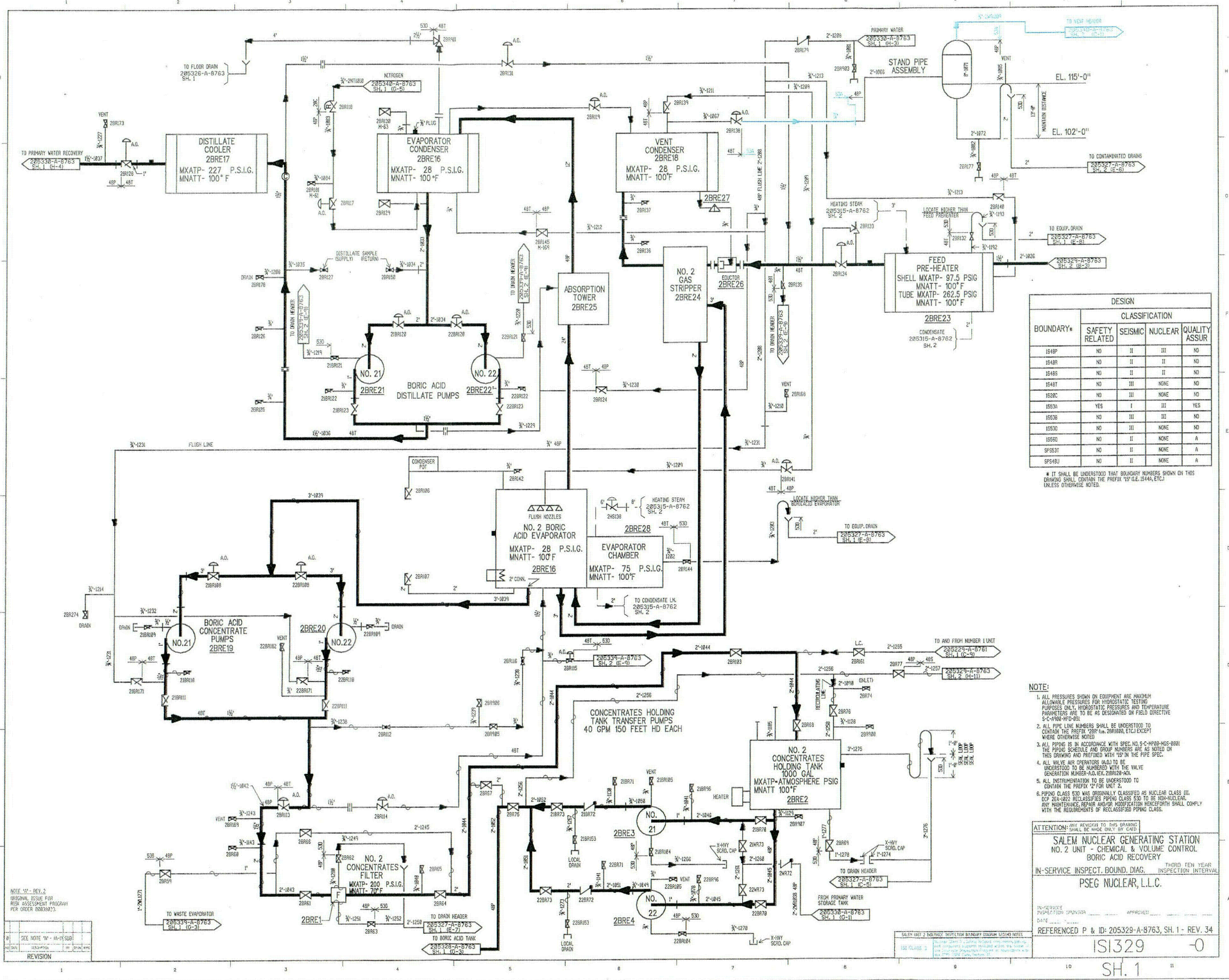
NOTE: "A" - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 68038023.

REV	DESCRIPTION	DATE
1	SEE NOTE "A" - (A-1) SUB	
2	REVISION	

DESIGN				
BOUNDARY *	CLASSIFICATION			QUALITY ASSUR.
	SAFETY RELATED	SEISMIC	NUCLEAR	
1546A	YES	I	II	YES
1546B	NO	II	II	NO
1546C	YES	I	II	YES
1546E	NO	II	II	NO
1546F	YES	I	II	YES
1546G	NO	II	II	NO
1546H	NO	I	II	NO
1546I	YES	I	II	YES
1546J	NO	II	II	NO
1546L	YES	I	II	YES
1546M	NO	II	II	NO
1546N	YES	I	II	YES
1546O	NO	II	II	NO
1546P	YES	I	II	YES
1546Q	NO	II	III	NO
1546R	NO	II	I	NO
1546S	YES	I	I	YES
1546T	YES	I	I	YES
1546U	YES	I	II	YES
1546V	YES	I	II	YES
1546W	YES	I	II	YES
1546X	YES	I	II	YES
1546Y	YES	I	II	YES
1546Z	YES	I	II	YES
1546AA	YES	I	II	YES
1546AB	YES	I	II	YES
1546AC	YES	I	II	YES
1546AD	YES	I	II	YES
1546AE	YES	I	II	YES
1546AF	YES	I	II	YES
1546AG	YES	I	II	YES
1546AH	YES	I	II	YES
1546AI	YES	I	II	YES
1546AJ	YES	I	II	YES
1546AK	YES	I	II	YES
1546AL	YES	I	II	YES
1546AM	YES	I	II	YES
1546AN	YES	I	II	YES
1546AO	YES	I	II	YES
1546AP	YES	I	II	YES
1546AQ	YES	I	II	YES
1546AR	YES	I	II	YES
1546AS	YES	I	II	YES
1546AT	YES	I	II	YES
1546AU	YES	I	II	YES
1546AV	YES	I	II	YES
1546AW	YES	I	II	YES
1546AX	YES	I	II	YES
1546AY	YES	I	II	YES
1546AZ	YES	I	II	YES
1546BA	YES	I	II	YES
1546BB	YES	I	II	YES
1546BC	YES	I	II	YES
1546BD	YES	I	II	YES
1546BE	YES	I	II	YES
1546BF	YES	I	II	YES
1546BG	YES	I	II	YES
1546BH	YES	I	II	YES
1546BI	YES	I	II	YES
1546BJ	YES	I	II	YES
1546BK	YES	I	II	YES
1546BL	YES	I	II	YES
1546BM	YES	I	II	YES
1546BN	YES	I	II	YES
1546BO	YES	I	II	YES
1546BP	YES	I	II	YES
1546BQ	YES	I	II	YES
1546BR	YES	I	II	YES
1546BS	YES	I	II	YES
1546BT	YES	I	II	YES
1546BU	YES	I	II	YES
1546BV	YES	I	II	YES
1546BW	YES	I	II	YES
1546BX	YES	I	II	YES
1546BY	YES	I	II	YES
1546BZ	YES	I	II	YES
1546CA	YES	I	II	YES
1546CB	YES	I	II	YES
1546CC	YES	I	II	YES
1546CD	YES	I	II	YES
1546CE	YES	I	II	YES
1546CF	YES	I	II	YES
1546CG	YES	I	II	YES
1546CH	YES	I	II	YES
1546CI	YES	I	II	YES
1546CJ	YES	I	II	YES
1546CK	YES	I	II	YES
1546CL	YES	I	II	YES
1546CM	YES	I	II	YES
1546CN	YES	I	II	YES
1546CO	YES	I	II	YES
1546CP	YES	I	II	YES
1546CQ	YES	I	II	YES
1546CR	YES	I	II	YES
1546CS	YES	I	II	YES
1546CT	YES	I	II	YES
1546CU	YES	I	II	YES
1546CV	YES	I	II	YES
1546CW	YES	I	II	YES
1546CX	YES	I	II	YES
1546CY	YES	I	II	YES
1546CZ	YES	I	II	YES
1546DA	YES	I	II	YES
1546DB	YES	I	II	YES
1546DC	YES	I	II	YES
1546DD	YES	I	II	YES
1546DE	YES	I	II	YES
1546DF	YES	I	II	YES
1546DG	YES	I	II	YES
1546DH	YES	I	II	YES
1546DI	YES	I	II	YES
1546DJ	YES	I	II	YES
1546DK	YES	I	II	YES
1546DL	YES	I	II	YES
1546DM	YES	I	II	YES
1546DN	YES	I	II	YES
1546DO	YES	I	II	YES
1546DP	YES	I	II	YES
1546DQ	YES	I	II	YES
1546DR	YES	I	II	YES
1546DS	YES	I	II	YES
1546DT	YES	I	II	YES
1546DU	YES	I	II	YES
1546DV	YES	I	II	YES
1546DW	YES	I	II	YES
1546DX	YES	I	II	YES
1546DY	YES	I	II	YES
1546DZ	YES	I	II	YES
1546EA	YES	I	II	YES
1546EB	YES	I	II	YES
1546EC	YES	I	II	YES
1546ED	YES	I	II	YES
1546EE	YES	I	II	YES
1546EF	YES	I	II	YES
1546EG	YES	I	II	YES
1546EH	YES	I	II	YES
1546EI	YES	I	II	YES
1546EJ	YES	I	II	YES
1546EK	YES	I	II	YES
1546EL	YES	I	II	YES
1546EM	YES	I	II	YES
1546EN	YES	I	II	YES
1546EO	YES	I	II	YES
1546EP	YES	I	II	YES
1546EQ	YES	I	II	YES
1546ER	YES	I	II	YES
1546ES	YES	I	II	YES
1546ET	YES	I	II	YES
1546EU	YES	I	II	YES
1546EV	YES	I	II	YES
1546EW	YES	I	II	YES
1546EX	YES	I	II	YES
1546EY	YES	I	II	YES
1546EZ	YES	I	II	YES
1546FA	YES	I	II	YES
1546FB	YES	I	II	YES
1546FC	YES	I	II	YES
1546FD	YES	I	II	YES
1546FE	YES	I	II	YES
1546FF	YES	I	II	YES
1546FG	YES	I	II	YES
1546FH	YES	I	II	YES
1546FI	YES	I	II	YES
1546FJ	YES	I	II	YES
1546FK	YES	I	II	YES
1546FL	YES	I	II	YES
1546FM	YES	I	II	YES
1546FN	YES	I	II	YES
1546FO	YES	I	II	YES
1546FP	YES	I	II	YES
1546FQ	YES	I	II	YES
1546FR	YES	I	II	YES
1546FS	YES	I	II	YES
1546FT	YES	I	II	YES
1546FU	YES	I	II	YES
1546FV	YES	I	II	YES
1546FW	YES	I	II	YES
1546FX	YES	I	II	YES
1546FY	YES	I	II	YES
1546FZ	YES	I	II	YES
1546GA	YES	I	II	YES
1546GB	YES	I	II	YES
1546GC	YES	I	II	YES
1546GD	YES	I	II	YES
1546GE	YES	I	II	YES
1546GF	YES	I	II	YES
1546GG	YES	I	II	YES
1546GH	YES	I	II	YES
1546GI	YES	I	II	YES
1546GJ	YES	I	II	YES
1546GK	YES	I	II	YES
1546GL	YES	I	II	YES
1546GM	YES	I	II	YES
1546GN	YES	I	II	YES
1546GO	YES	I	II	YES
1546GP	YES	I	II	YES
1546GQ	YES	I	II	YES
1546GR	YES	I	II	YES
1546GS	YES	I	II	YES
1546GT	YES	I	II	YES
1546GU	YES	I	II	YES
1546GV	YES	I	II	YES
1546GW	YES	I	II	YES
1546GX	YES	I	II	YES
1546GY	YES	I	II	YES
1546GZ	YES	I	II	YES
1546HA	YES	I	II	YES
1546HB	YES	I	II	YES
1546HC	YES	I	II	YES
1546HD	YES	I	II	YES
1546HE	YES	I	II	YES
1546HF	YES	I	II	YES
1546HG	YES	I	II	YES
1546HH	YES	I	II	YES
1546HI	YES	I	II	YES
1546HJ	YES	I	II	YES
1546HK	YES	I	II	YES
1546HL	YES	I	II	YES
1546HM	YES	I	II	YES
1546HN	YES	I	II	YES
1546HO	YES	I	II	YES
1546HP	YES	I	II	YES
1546HQ	YES	I	II	YES
1546HR	YES	I	II	YES
1546HS	YES	I	II	YES
1546HT	YES	I	II	YES
1546HU	YES	I	II	YES
1546HV	YES	I	II	YES
1546HW	YES	I	II	YES
1546HX	YES	I	II	YES
1546HY	YES	I	II	YES
1546HZ	YES	I	II	YES
1546IA	YES	I	II	YES
1546IB	YES	I	II	YES
1546IC	YES	I	II	YES
1546ID	YES	I	II	YES
1546IE	YES	I	II	YES
1546IF	YES	I	II	YES
1546IG	YES	I	II	YES
1546IH	YES	I	II	YES
1546II	YES	I	II	YES
1546IJ	YES	I	II	YES
1546IK	YES	I	II	YES
1546IL	YES	I	II	YES
1546IM	YES	I	II	YES
1546IN	YES	I	II	YES
1546IO	YES	I	II	YES
1546IP	YES	I	II	YES
1546IQ	YES	I	II	YES
1546IR	YES	I	II	YES
1546IS	YES	I	II	YES
1546IT	YES	I	II	YES
1546IU	YES	I	II	YES
1546IV	YES	I	II	YES
1546IW	YES	I	II	YES
1546IX	YES	I	II	YES
1546IY	YES	I	II	YES
1546IZ	YES	I	II	YES
1546JA	YES	I	II	YES
1546JB	YES	I	II	YES
1546JC	YES	I	II	YES
1546JD	YES	I	II	YES
1546JE	YES	I	II	YES
1546JF	YES	I	II	YES
1546JG	YES	I	II	YES
1546JH	YES	I	II	YES
1546JI	YES	I	II	YES
1546JJ	YES	I	II	YES
1546JK	YES	I	II	YES
1546JL	YES	I	II	YES
1546JM	YES	I	II	YES
1546JN	YES	I	II	YES
1546JO	YES	I	II	YES
1546JP	YES	I	II	YES
1546JQ	YES	I	II	YES
1546JR	YES	I	II	YES
1546JS	YES	I	II	YES
1546JT	YES	I	II	YES
1546JU	YES	I	II	YES
1546JV	YES	I	II	YES
1546JW	YES	I	II	YES
1546JX	YES	I	II	YES
1546JY	YES	I	II	YES
1546JZ	YES	I	II	YES
1546KA	YES	I	II	YES
1546KB	YES	I	II	YES
1546KC	YES	I	II	YES
1546KD	YES	I	II	YES
1546KE	YES	I	II	YES
1546KF	YES	I	II	YES
1546KG	YES	I	II	YES
1546KH	YES	I	II	YES
1546KI	YES	I	II	YES
1546KJ	YES	I	II	YES
1546KL	YES	I	II	YES
1546KM	YES	I	II	YES
1546KN	YES	I	II	YES
1546KO	YES	I	II	YES
1546KP	YES	I	II	YES
1546KQ	YES	I	II	YES
1546KR	YES	I	II	YES
1546KS	YES	I	II	YES
1546KT	YES	I	II	YES
1546KU	YES	I	II	YES
1546KV	YES	I	II	YES
1546KW	YES	I	II	YES
1546KX	YES	I	II	YES
1546KY	YES	I	II	YES
1546KZ	YES	I	II	YES
1546LA	YES	I	II	YES
1546LB	YES	I	II	YES
1546LC	YES	I	II	YES
1546LD	YES	I	II	YES
1546LE	YES	I	II	YES
1546LF	YES	I	II	YES
1546LG	YES	I	II	YES
1546LH	YES	I	II	YES
1546LI	YES	I	II	YES
1546LJ	YES	I	II	YES
1546LK	YES	I	II	YES
1546LL	YES	I	II	YES
1546LM	YES	I	II	YES
1546LN	YES	I	II	YES
1546LO	YES	I	II	YES
1546LP	YES	I	II	YES
1546LQ	YES	I	II	YES
1546LR	YES	I	II	YES
1546LS	YES	I	II	YES
1546LT	YES	I	II	YES
1546LU	YES	I	II	YES
1546LV	YES	I	II	YES
1546LW	YES			







BOUNDARY	CLASSIFICATION			
	SAFETY RELATED	SEISMIC	NUCLEAR	QUALITY ASSUR
IS48P	NO	II	III	NO
IS48R	NO	II	II	NO
IS48S	NO	II	II	NO
IS48T	NO	III	NONE	NO
IS50C	NO	III	NONE	NO
IS53A	YES	I	III	YES
IS53B	NO	III	III	NO
IS53D	NO	III	NONE	NO
IS55D	NO	II	NONE	A
SFS3T	NO	II	NONE	A
SFS4B	NO	II	NONE	A

IT SHALL BE UNDERSTOOD THAT BOUNDARY NUMBERS SHOWN ON THIS DRAWING SHALL CONTAIN THE PREFIX 'IS' (I.E. IS48P, ETC.) UNLESS OTHERWISE NOTED.

- NOTE:
1. ALL PRESSURES SHOWN ON EQUIPMENT ARE MAXIMUM ALLOWABLE PRESSURES FOR HYDROSTATIC TESTING PURPOSES ONLY. HYDROSTATIC PRESSURES AND TEMPERATURE PARAMETERS ARE TO BE AS DESIGNATED ON FIELD DIRECTIVE S-C-1600-100-001.
 2. ALL PIPE LINE NUMBERS SHALL BE UNDERSTOOD TO CONTAIN THE PREFIX '28R' (A. 28R100A, ETC.) EXCEPT WHERE OTHERWISE NOTED.
 3. ALL PIPING IS IN ACCORDANCE WITH SPEC. NO. S-C-1600-100-001 THE PIPING SCHEDULE AND GROUP NUMBERS ARE AS NOTED ON THIS DRAWING AND PREFIXED WITH 'IS' IN THE PIPE SPEC.
 4. ALL VALVE AIR OPERATORS (A.O.) TO BE UNDERSTOOD TO BE NUMBERED WITH THE VALVE GENERATION NUMBER-A.D.I.E.X. 28R100-A.O.I.
 5. ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX 'I' FOR UNIT 2.
 6. PIPING CLASS 530 WAS ORIGINALLY CLASSIFIED AS NUCLEAR CLASS III. D.P. 28R-1001 RECLASSIFIES PIPING CLASS 530 TO BE NON-NUCLEAR. ANY MAINTENANCE, REPAIR AND/OR MODIFICATION HEREON SHALL COMPLY WITH THE REQUIREMENTS OF RECLASSIFIED PIPING CLASS.

ATTENTION: ANY REVISIONS TO THIS DRAWING SHALL BE MADE ONLY BY CADD

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT - CHEMICAL & VOLUME CONTROL
BORIC ACID RECOVERY
IN-SERVICE INSPECT. BOUND. DIAG.
PSEG NUCLEAR, L.L.C.
THIRD TEN YEAR INSPECTION INTERVAL

REVISION

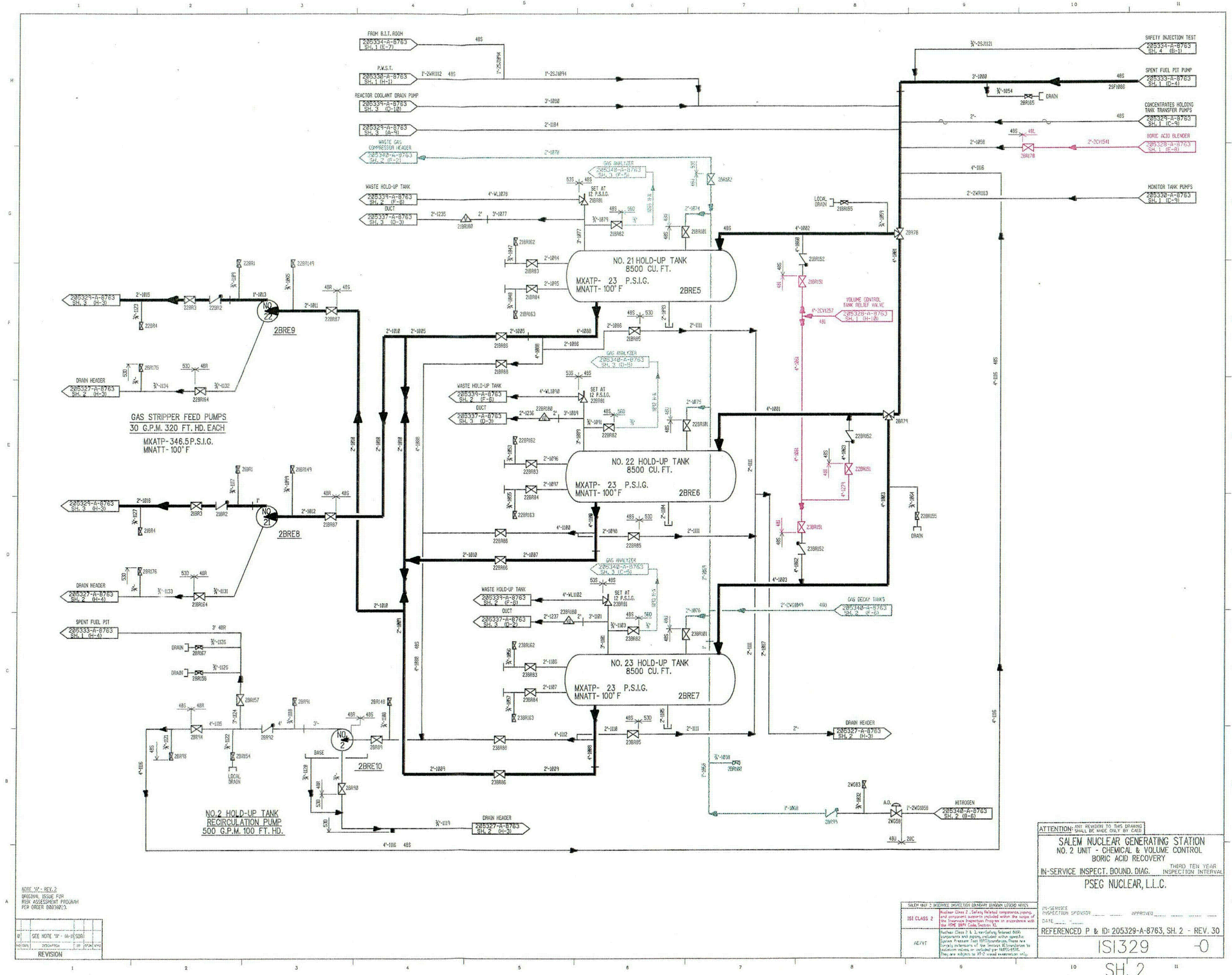
DATE

APPROVED

REFERENCE P & ID: 205329-A-8763, SH. 1 - REV. 34

ISI329

0



NOTE: SEE NOTE 'A' - (A-1) FOR
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 00014003.

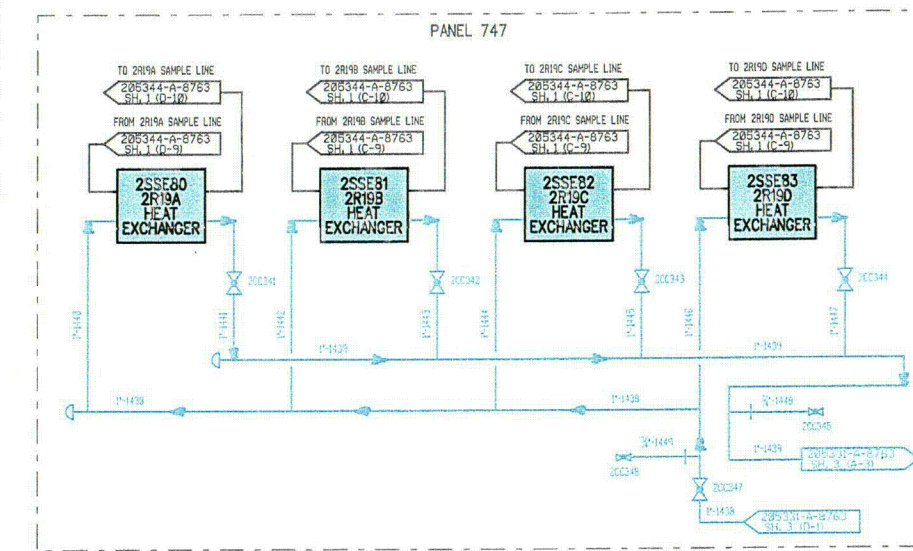
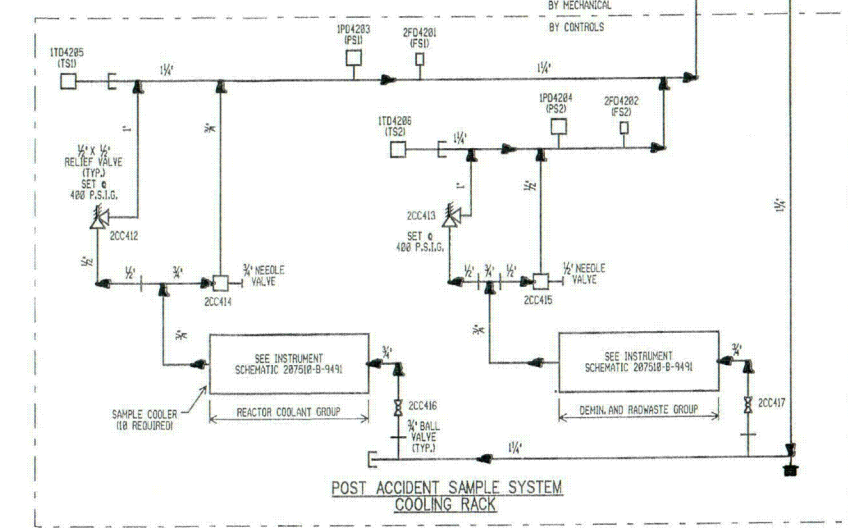
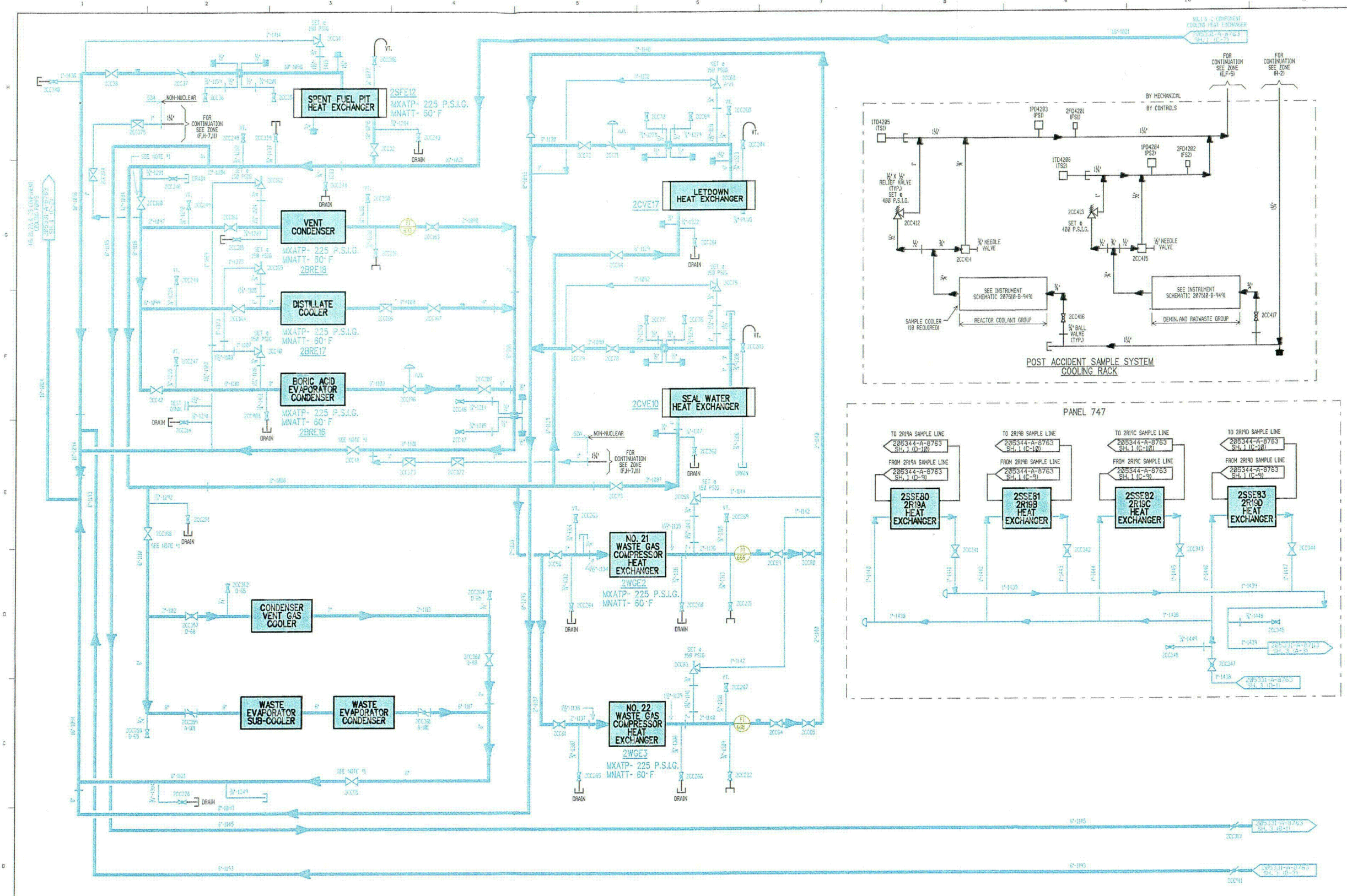
REVISION	DATE	BY	APP'D
1	01/11/01	W	
2	01/11/01	W	
3	01/11/01	W	
4	01/11/01	W	
5	01/11/01	W	
6	01/11/01	W	
7	01/11/01	W	
8	01/11/01	W	
9	01/11/01	W	
10	01/11/01	W	
11	01/11/01	W	
12	01/11/01	W	
13	01/11/01	W	
14	01/11/01	W	
15	01/11/01	W	
16	01/11/01	W	
17	01/11/01	W	
18	01/11/01	W	
19	01/11/01	W	
20	01/11/01	W	

SALEM UNIT 1 INSPECTOR'S REPORT (ISSUED 02/20/01)
181 CLASS 2
REVIEW

ATTENTION: ANY REVISIONS TO THIS DRAWING
SHALL BE MADE ONLY BY CADD

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT - CHEMICAL & VOLUME CONTROL
BORIC ACID RECOVERY
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR
INSPECTION INTERVAL
PSEG NUCLEAR, L.L.C.

DATE: 01/11/01
APPROVED: [Signature]
REFERENCE P & ID: 205329-A-8763, SH. 2 - REV. 30
ISI329 -0
SH. 2



NOTE "W" - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 88030202.

REV	DATE	DESCRIPTION	BY	CHKD
1	10/1/80	SEE NOTE "W" - REV. 2		

ATTENTION: ANY REVISION TO THIS DRAWING
SHALL BE MADE ONLY BY CADD

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
COMPONENT COOLING
IN-SERVICE INSPECT. BOUND. DIAG. THIRD TEN YEAR
PSEG NUCLEAR, L.L.C. INSPECTION INTERVAL

IN-SERVICE
INSPECTION SHOWN: _____ APPROVED: _____
DATE: _____

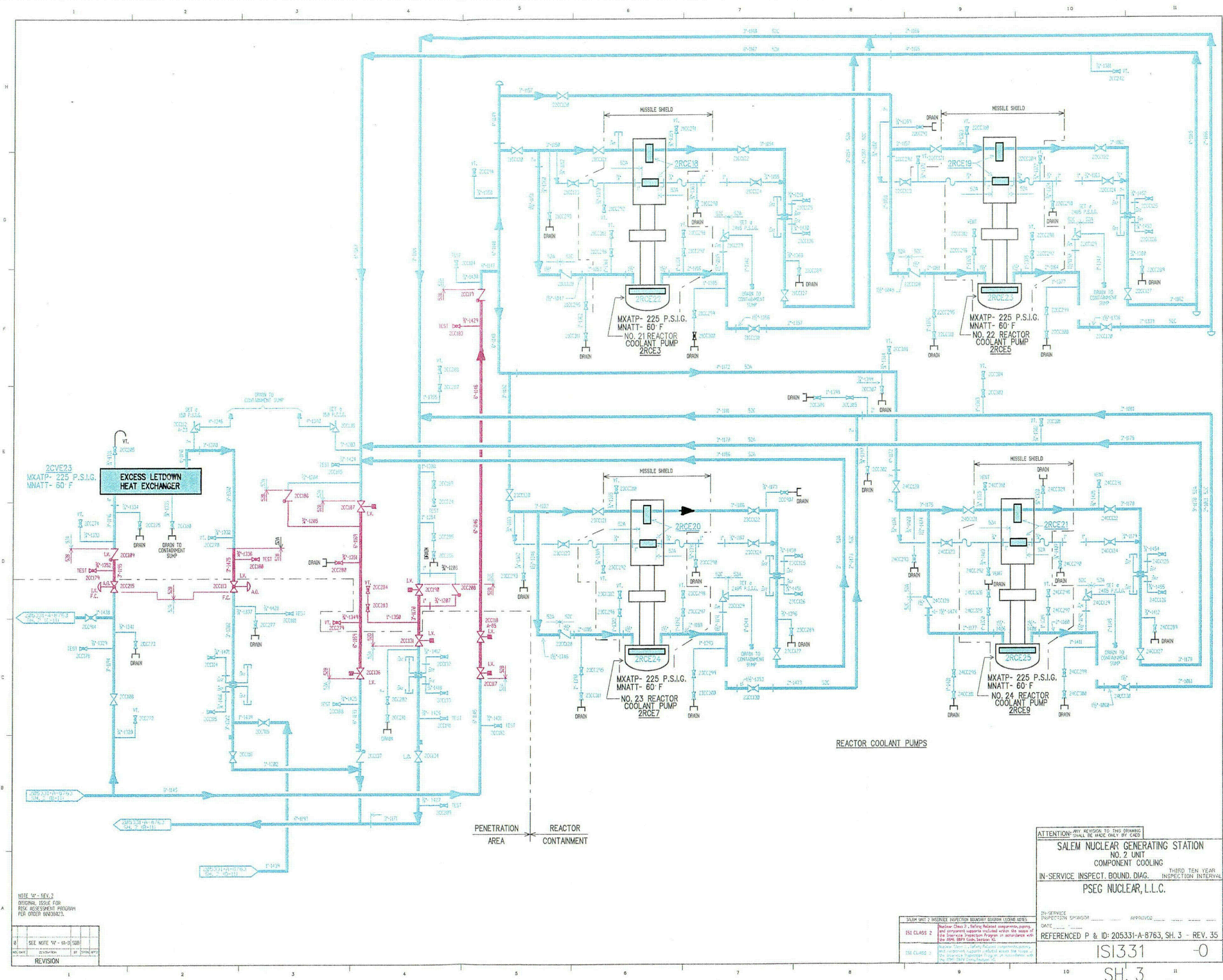
REFERENCED P & ID: 205331-A-8763, SH. 2 - REV. 38

SALEM UNIT 2 IN-SERVICE INSPECTION BOUNDARY GROUPING LEGEND

LEGEND	DESCRIPTION
100 GLASS 3	100 GLASS 3

ISI331 -0
SH. 2

C19

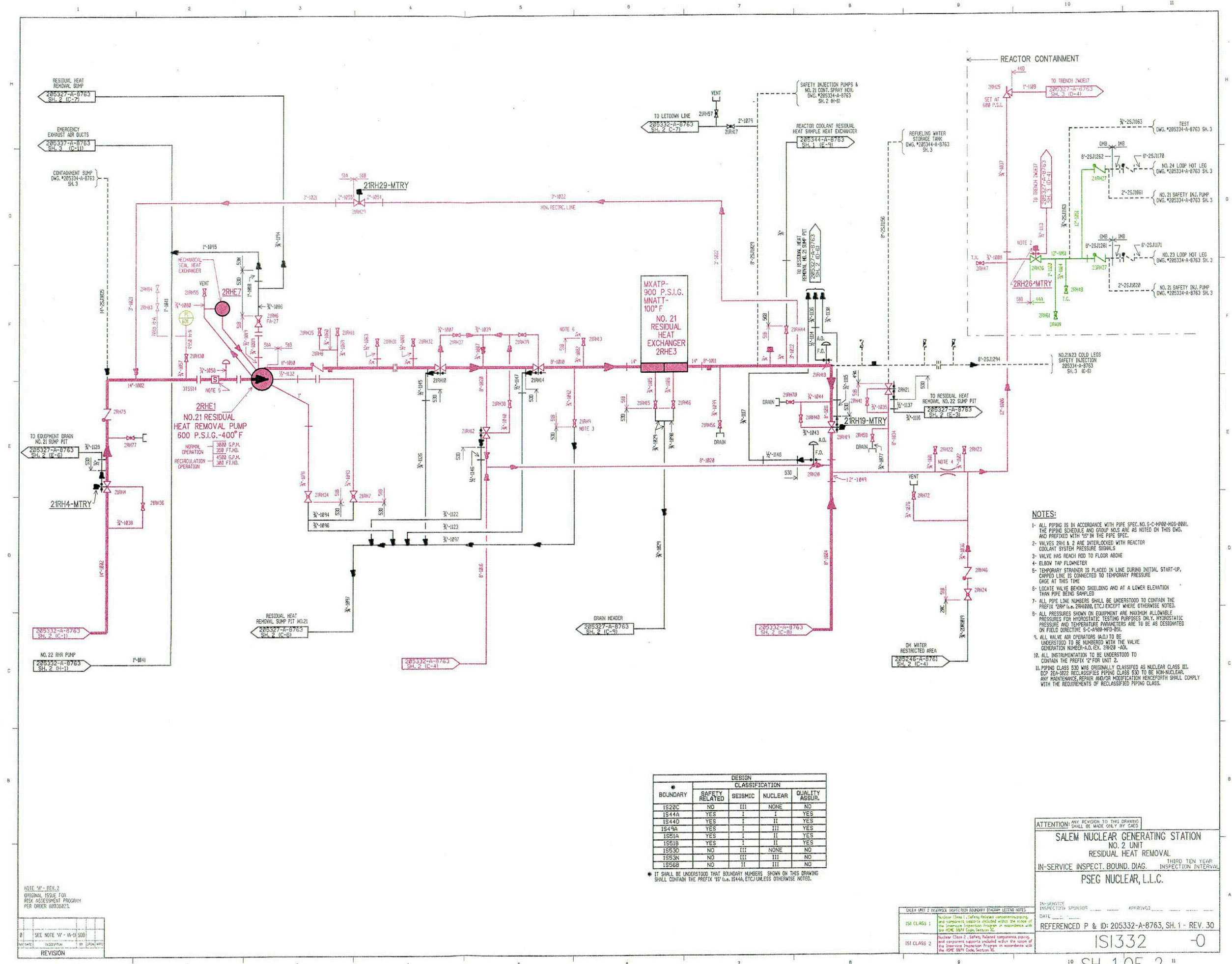


NOTE: 'X' - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 8403823.

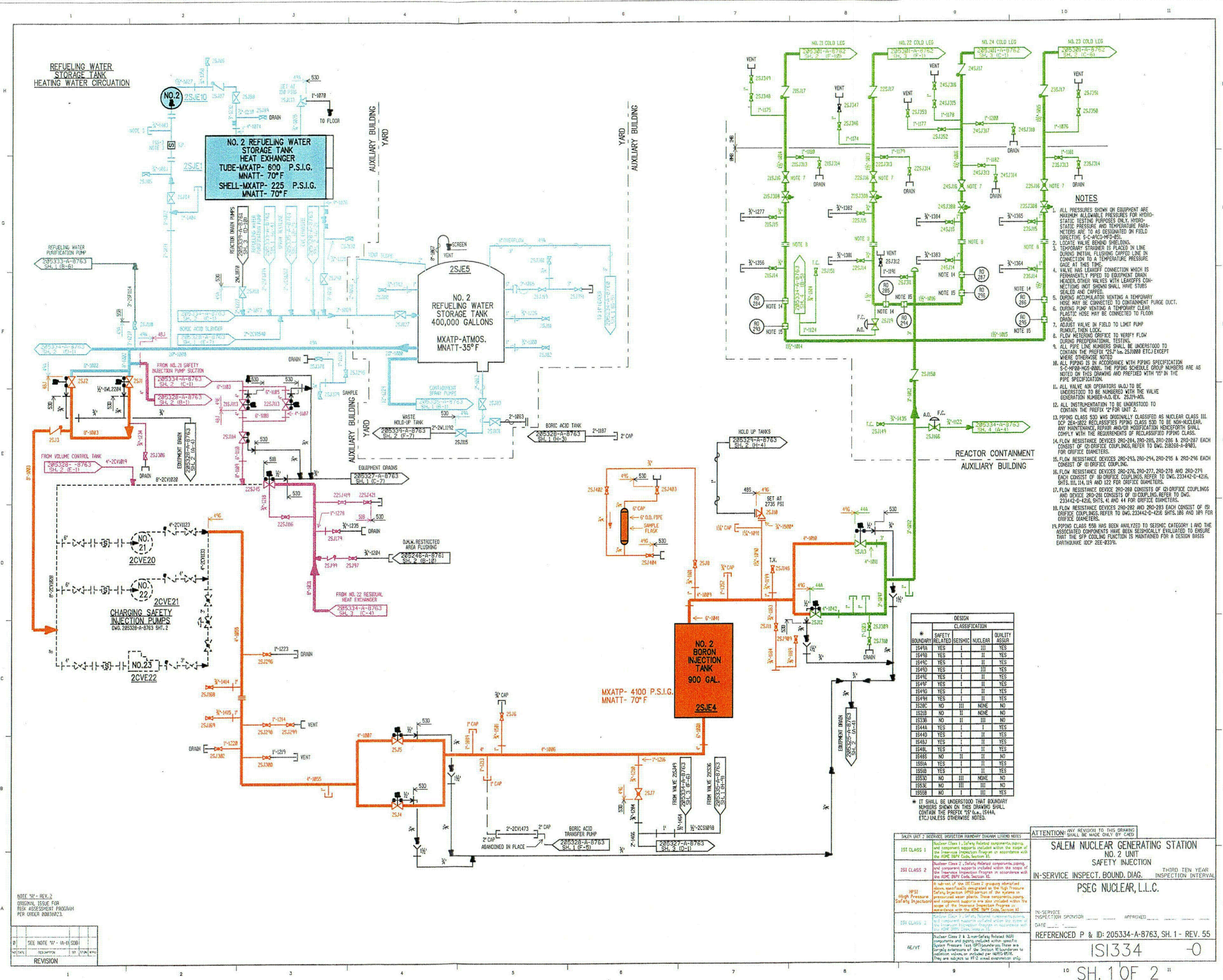
REVISION	
0	SEE NOTE 'X' - REV. 2

REACTOR COOLANT PUMPS

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CADD	
SALEM NUCLEAR GENERATING STATION NO. 2 UNIT COMPONENT COOLING IN-SERVICE INSPECT. BOUND. DIAG. PSEG NUCLEAR, L.L.C.	
IN-SERVICE INSPECTION DIVISION	APPROVED
DATE	
REFERENCED P & ID: 205331-A-8763, SH. 3 - REV. 35	
ISI CLASS 2	ISI CLASS 2
SH. 3	







NOTE: 'M' - REV. 2
ORIGINAL ISSUE FOR
RISK ASSESSMENT PROGRAM
PER ORDER 88038023

REV	DESCRIPTION	BY	DATE
0	SEE NOTE 'M' - (M-1) SOB		
1	REVISION		

- NOTES**
- ALL PRESSURES SHOWN ON EQUIPMENT ARE MAXIMUM ALLOWABLE PRESSURES FOR HYDROSTATIC TESTING PURPOSES ONLY. HYDROSTATIC PRESSURE AND TEMPERATURE PARAMETERS ARE TO BE DESIGNATED ON FIELD OBJECTIVE S-C-400-100-001.
 - LOCATE VALVE BEHIND SHIELDING.
 - TEMPORARY STRAINER IS PLACED IN LINE DURING INITIAL FLUSHING CAPED LINE IN CONNECTION TO A TEMPERATURE PRESSURE GAGE AT THIS TIME.
 - VALVE THIS LEAKOFF CONNECTION WHICH IS PERMANENTLY PIPED TO EQUIPMENT DRAIN HEADER, OTHER VALVES WITH LEAKOFFS CONNECTIONS NOT SHOWN SHALL HAVE STUDS SEALED AND CAPPED.
 - DURING ACCUMULATOR VENTING A TEMPORARY HOSE MAY BE CONNECTED TO CONTAINMENT PURGE DUCT.
 - DURING PUMP VENTING A TEMPORARY CLEAR PLASTIC HOSE MAY BE CONNECTED TO FLOOR DRAIN.
 - ADJUST VALVE IN FIELD TO LIMIT PUMP RUNOUT, THEN LOCK.
 - FLOW METERING ORIFICE TO VERIFY FLOW DURING PREOPERATIONAL TESTING.
 - ALL PIPE LINE NUMBERS SHALL BE UNDERSTOOD TO CONTAIN THE PREFIX '25' (e.g. 25J1000 ETC) EXCEPT WHERE OTHERWISE NOTED.
 - ALL PIPING IS IN ACCORDANCE WITH PIPING SPECIFICATION S-C-400-100-001. THE PIPING SCHEDULE GROUP NUMBERS ARE AS NOTED ON THIS DRAWING AND PREFIXED WITH '15' IN THE PIPE SPECIFICATION.
 - ALL VALVE AIR OPERATORS (A.O.) TO BE UNDERSTOOD TO BE NUMBERED WITH THE VALVE GENERATION NUMBER-A.O. EX. 25J119-A.O.
 - ALL INSTRUMENTATION TO BE UNDERSTOOD TO CONTAIN THE PREFIX '25' FOR UNIT 2.
 - PIPING CLASS 530 WAS ORIGINALLY CLASSIFIED AS NUCLEAR CLASS III. DCP 25A-1022 RECLASSIFIES PIPING CLASS 530 TO BE NON-NUCLEAR. ANY MAINTENANCE, REPAIR AND/OR MODIFICATION HEREFOR SHALL COMPLY WITH THE REQUIREMENTS OF RECLASSIFIED PIPING CLASS.
 - FLOW RESISTANCE DEVICES 250-254, 250-255, 250-256 & 250-257 EACH CONSIST OF (2) ORIFICE COUPLINGS, REFER TO DWG. 250250-A-8903, FOR ORIFICE DIAMETERS.
 - FLOW RESISTANCE DEVICES 250-276, 250-277, 250-278 AND 250-279 EACH CONSIST OF (2) ORIFICE COUPLINGS, REFER TO DWG. 233442-D-4216, SHTS. III, IV, V AND 12 FOR ORIFICE DIAMETERS.
 - FLOW RESISTANCE DEVICES 250-288 CONSISTS OF (2) ORIFICE COUPLINGS AND DEVICES 250-289 CONSISTS OF (2) COUPLING, REFER TO DWG. 233442-D-4216, SHTS. IV AND 14 FOR ORIFICE DIAMETERS.
 - FLOW RESISTANCE DEVICES 250-292 AND 250-293 EACH CONSIST OF (2) ORIFICE COUPLINGS, REFER TO DWG. 233442-D-4216 SHTS. I, II, III, IV AND 10 FOR ORIFICE DIAMETERS.
 - PIPING CLASS 550 HAS BEEN ANALYZED TO SEISMIC CATEGORY I AND THE ASSOCIATED COMPONENTS HAVE BEEN SEISMICALLY EVALUATED TO ENSURE THAT THE SFP COOLING FUNCTION IS MAINTAINED FOR A DESIGN BASIS EARTHQUAKE (DCP 25E-8339).

DESIGN CLASSIFICATION			
* BOUNDARY	SAFETY	SEISMIC	NUCLEAR
IS49A	YES	I	III
IS49B	YES	I	II
IS49C	YES	I	II
IS49D	YES	I	III
IS49E	YES	I	II
IS49F	YES	I	II
IS49G	YES	I	II
IS49H	YES	I	II
IS28C	NO	III	NONE
IS21B	NO	II	NONE
IS33B	NO	II	III
IS44A	YES	I	I
IS44D	YES	I	II
IS48J	YES	I	II
IS48L	YES	I	II
IS48S	NO	II	II
IS50A	YES	I	II
IS50B	YES	I	II
IS53D	NO	III	NONE
IS53E	NO	III	III
IS55B	NO	I	III

* IT SHALL BE UNDERSTOOD THAT BOUNDARY NUMBERS SHOWN ON THIS DRAWING SHALL CONTAIN THE PREFIX '15' (e.g. IS44A, ETC.) UNLESS OTHERWISE NOTED.

SALEM UNIT 2 INSERVICE INSPECTION BOUNDARY SUMMARY LEGEND NOTES	
ISI CLASS 1	Nuclear Class 1, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME BAPV Code, Section XI.
ISI CLASS 2	Nuclear Class 2, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME BAPV Code, Section XI.
ISI CLASS 3	A subset of the ISI Class 2 groupings identified above specifically designated as the High Pressure Safety Injection (HPSI) portion of the system in prepared water plots. These components, piping, and component supports are also included within the scope of the Inservice Inspection Program in accordance with the ASME BAPV Code, Section XI.
ISI CLASS 4	Nuclear Class 3, Safety Related components, piping, and component supports included within the scope of the Inservice Inspection Program in accordance with the ASME BAPV Code, Section XI.
RE/VT	Nuclear Class 2 & 3, non-safety related ASB components and piping included within specific System Pressure Test (SPT) boundaries. These are largely extensions of the Section XI boundaries to include valves not included per ASME BAPV. They are subject to PT-2 annual inspection only.

ATTENTION: ANY REVISION TO THIS DRAWING SHALL BE MADE ONLY BY CAED

SALEM NUCLEAR GENERATING STATION
NO. 2 UNIT
SAFETY INJECTION
IN-SERVICE INSPECT. BOUND. DIAG.
PSEC NUCLEAR, L.L.C.

THIRD TEN YEAR INSPECTION INTERVAL

IN-SERVICE INSPECTION SPONSOR: _____ APPROVED: _____
DATE: _____

REFERENCED P & ID: 205334-A-8763, SH. 1 - REV. 55

ISI334 -0