

JAN 08 2002  **PSEG**
Nuclear LLC

LRN-01-0433

United States Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Gentlemen:

**INSERVICE INSPECTION PROGRAM RELIEF REQUESTS
S1-RR-B01 AND S1-RR-C01
SALEM GENERATING STATION – UNIT 1
FACILITY OPERATING LICENSE DPR-70
DOCKET NOS. 50-272**

Pursuant to 10CFR50.55a(a)(3)(ii), PSEG Nuclear is submitting Inservice Inspection (ISI) relief requests S1-RR-B01 and S1-RR-C01 for NRC approval. These requests address Salem Unit 1 – Second Inservice Inspection Ten Year NDE Examination limitations affecting ASME Section XI Class 1 and Class 2 components, respectively.

Salem Unit 1 2nd Ten-Year Interval ISI examinations were performed in accordance with the requirements of ASME Boiler and Pressure Vessel Code Section XI 1983 Edition up through and including Summer 1983 Addenda Article IWB-2500 to the extent practical. Imposed September 22, 1999 Final Rule requirements 10CFR50.55a(b)(2)(xv)(A), 10CFR50.55a(b)(2)(xv)(G), and 10CFR50.55a(b)(2)(xvi), defined new requirements for coverage and examination demonstrations. These requirements affected both piping and Reactor Pressure Vessel (RPV) examinations.

The requests seek relief from performing the inservice examinations for the inaccessible or physically obstructed portions of the examination areas identified within the respective Salem Unit 1- Second Inservice Inspection Ten-Year Relief Requests' NDE Exam Limitations tables, attached.

The attachments to this letter provides the supporting justification and proposed alternative and for each relief. Based on the evaluation contained in each attachment, PSEG Nuclear has concluded that the proposed alternatives provide reasonable assurance of pressure boundary integrity, and an acceptable level of quality and safety. Accordingly, this proposal satisfies the requirements of 10 CFR 50.55a(a)(3)(ii).

PSEG Nuclear requests NRC approval by April 1st, 2002, as these relief request are applicable to the Salem Unit 2, 10-year second interval vessel examination scheduled for the spring of 2002.

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JAN 08 2002

Should you have any questions regarding this request, please contact Mr. Howard Berrick at 856-339-1862.

Sincerely,

A handwritten signature in black ink, appearing to read 'G. Salamon', with a long horizontal flourish extending to the right.

G. Salamon

Manager – Nuclear Safety and Licensing

Attachment:

- I. ISI Relief Request S1-RR-B01
- II. ISI Relief Request S1-RR-C01

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Attachment I
Relief Request: S1-RR-B01
Salem Unit 1- 2nd Inservice Inspection Ten-Year NDE Exam Limitations

Component Description

Class 1 Component Limitations identified during Salem Unit 1 2nd Ten-Year Inservice Inspection Interval

ASME Code Class:

ASME Section XI Class 1

Code Requirement

Salem Unit 1 2nd Ten-Year Inservice Inspection Interval inservice inspection examinations were performed in accordance with the requirements of ASME Boiler and Pressure Vessel Code Section XI 1983 Edition up through and including Summer 1983 Addenda Article IWB-2500 to the extent practical.

Imposed September 22, 1999 Final Rule requirements 10CFR50.55a(b)(2)(xv)(A), 10CFR50.55a(b)(2)(xv)(G), and 10CFR50.55a(b)(2)(xvi), defined new requirements for coverage and examination demonstrations. These requirements affected both piping and Reactor Pressure Vessel (RPV) examinations.

The 3rd Ten-Year Inservice Inspection Interval inservice inspection examinations will be performed in accordance with the above Final Rule requirements and ASME Section XI 1995 Edition up through and including 1996 Addenda Article IWC-2500 requirements to the extent practical.

Basis for Relief

Pursuant to 10CFR50.55a (a)(3)(ii), relief is requested from performing the inservice examination for the inaccessible or physically obstructed portions of the examination areas identified within Salem Unit 1- 2nd Inservice Inspection Ten-Year NDE Exam Limitations table attached. This information is also contained within Salem's Unit 1 Inservice Inspection Program Long Term Plan.

In addition, previously issued RPV qualifications do not met the new requirements for single side access, that are listed in the September 22, 1999 Final Rule, 10CFR50.55a(b)(2)(xv)(G)(1), (2) and 10CFR50.55a(b)(2)(xvi)(A).

The prevailing limitations and the specific relief for each weld are contained within the Salem Unit 1 - 2nd Inservice Inspection Ten-Year NDE Exam Limitations table. The table contains the following entries pertaining to each subject weld/bolting areas:

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Salem Unit 1- 2nd Inservice Inspection Ten-Year NDE Exam Limitations

Component Summary Number	Component Identification	Exam Method Limited	Summarized Exam Results for Area Inspected
Interval/Period/Outage Number	Geometric configuration	Estimated total coverage area	Restriction Type
Exam Date	ASME Category	Code Required Volume Requirement Description	Restriction Description Details
System Designation	ASME Item Number	Obstruction Description (General)	Augmented Exam Description

The subject welds received volumetric examination by radiography and/or surface examinations during fabrication, in accordance with approved construction code requirements that provide adequate assurance of the structural integrity of welds prior to plant operation.

Throughout 10CFR50.55a (g) numerous references are made allowing performance of these inspections "to the extent practical". Some of these specific paragraphs are:

(g) *Inservice inspection requirements.* Requirements for inservice testing of Class 1, Class 2, and Class 3 pumps and valves are located in §50.55a(f).

(1) For a boiling or pressurized water-cooled nuclear power facility whose construction permit was issued before January 1, 1971, components (including supports) must meet the requirements of paragraphs (g)(4) and (g)(5) of this section **to the extent practical**. Components, which are part of the reactor coolant pressure boundary and their supports, must meet the requirements applicable to components, which are classified as ASME Code Class 1. Other safety-related pressure vessels, piping, pumps and valves, and their supports must meet the requirements applicable to components which are classified as ASME Code Class 2 or Class 3.

(4) Throughout the service life of a boiling or pressurized water-cooled nuclear power facility, components (including supports) which are classified as ASME Code Class 1, Class 2 and Class 3 must meet the requirements, except design and access provisions and preservice examination requirements, set forth in Section XI of editions of the ASME Boiler and Pressure Vessel Code and Addenda that become effective subsequent to editions specified in paragraphs (g)(2) and (g)(3) of this section and that are incorporated by reference in paragraph (b) of this section, **to the extent practical** within the limitations of design, geometry and materials of construction of the components. Components which are classified as Class MC pressure retaining components and their integral attachments, and components which are classified as Class CC pressure retaining components and their integral attachments must meet the requirements, except design and access provisions and preservice examination requirements, set forth in Section XI of the ASME Boiler and Pressure Vessel Code and Addenda that are incorporated by reference in paragraph (b) of this section, subject to the limitation listed in paragraph (b)(2)(vi) of this section and the modifications listed in paragraphs (b)(2)(viii) and (b)(2)(ix) of this section, **to the extent practical** within the limitation of design, geometry and materials of construction of the components.

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Salem Unit 1- 2nd Inservice Inspection Ten-Year NDE Exam Limitations

The ASME Code itself provides allowance for "limited" examinations. The ASME Section V 1983 Edition up through and including Summer 1983 Addenda paragraph T-441.4.4 Extent of Scanning and later editions of the code indicate state: "Wherever feasible, the scanning of the examination volume shall be carried out from both sides of the weld on the same surface. Where configuration or adjacent parts of the component are such that scanning from both sides is not feasible, this fact shall be included in the report of examination.

PSEG Nuclear utilizes approved technical procedures written in accordance to applicable ASME Code section/paragraph criterion for area/volume requirements. Recognizing that because of component design, construction, etc. there are cases when examinations can only be performed to "the greatest extent practical". In those cases, plant procedures require the documentation of the location and cause of the limitation.

The Performance Demonstration Initiative (PDI) is in agreement with the NRC's September 22, 1999 Final Rule regarding single side access for piping. The Final Rule requires that if access is available, the austenitic steel weld shall be scanned in each of the four directions (parallel and perpendicular to the weld) where required. Ultrasonic examination of ferritic steel welds requires scanning in the two axial scan directions. Circumferential scanning is required in two directions only when axial indications were noted during preservice inspections. Coverage credit may be taken for single side exams on ferritic piping. However, for austenitic piping, a procedure must be qualified with flaws on the inaccessible side of the weld.

Current technology is not capable of reliably detecting or sizing flaws on the far side of austenitic weld for configurations common to US nuclear applications. To demonstrate that the best available technology was applied, PDI provides a best effort qualification instead of a complete single sided qualification. PDI Performance Demonstration Qualification Summary (PDQS) austenitic piping certificates list the limitation that single side examination is performed on a best effort basis. When performing single side access of austenitic stainless steel piping welds the best available techniques are used from the accessible side of the weld, as qualified through the PDI.

This will require that the far side of the weld, which can only be accessed from one side, must be listed as an area of no coverage. In these instances PSEG Nuclear has documented and claimed credit for only obtaining 50% of the code-required coverage for any completed single side austenitic stainless steel piping weld exams.

Alternative Examination

Alternate examinations were considered for each exam area where a limitation exists, however no alternative examinations were considered to be sufficient or appropriate.

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System leakage tests were conducted upon class-1 pressure boundaries during station start-up after refueling outages. Likewise, surface exams were conducted, when required ASME XI requirements to provide an additional level of assurance for the acceptability of the system's integrity and plant safety.

Applicability

This Relief Request is applicable to the following:

Salem Unit 1 – Second Ten-Year Inservice Inspection Interval.

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Relief Request: S1-RR-B01
Salem Unit 1- 2nd Inservice Inspection Ten-Year NDE Exam Limitations

Summary No.	Interval/Period/Outage No.	Exam Date	System	Component Identification	Geometric Configuration	ASME Category	Item No.	Exam Method Limited	Examination Completed Amount	Code Required Volume	Comments	Exam Results for Area Inspected	Restriction Type	Additional Restriction Detail & Type	Augmented Exam
000900	2/3/2	05/14/2001	RPV	1-RPV-1042B	Upper Long Seam @ 7 degrees	B-A	B1.21	UT	66%	IWB-2500-3	Exam limited due to outlet nozzle boss.	Recordable Indications Noted	Configuration	Physical Restriction- Examination limited due to outlet nozzle boss interference	No
001200	2/3/2	05/14/2001	RPV	1-RPV-10042	Lower Shell to Bottom Head (Circ Weld)	B-A	B1.11	UT	74%	IWB-2500-1	Exam limited due to Incore Penetrations interference.	Recordable Indications Noted	Configuration	Physical Restriction- Examination limited due to incore penetrations interference	No
001300	2/3/2	05/14/2001	RPV	1-RPV-4043	Lower Head Disc to Peel Segments	B-A	B1.21	UT	21%	IWB-2500-3	Exam limited due to Incore Penetrations interference.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to incore penetrations interference	No
001400	2/3/2	05/14/2001	RPV	1-RPV-1043-A	Meridional Weld @ 270 degrees in Lower Head	B-A	B1.22	UT	70%	IWB-2500-3	Exam limited due to Incore Penetrations interference.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to incore penetrations interference	No
001500	2/3/2	05/14/2001	RPV	1-RPV-1043-B	Meridional Weld @ 330 degrees in Lower Head	B-A	B1.22	UT	70%	IWB-2500-3	Exam limited due to Incore Penetrations interference.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to incore penetrations interference	No
001600	2/3/2	05/14/2001	RPV	1-RPV-1043-C	Meridional Weld @ 30 degrees in Lower Head	B-A	B1.22	UT	70%	IWB-2500-3	Exam limited due to Incore Penetrations interference.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to incore penetrations interference	No
001700	2/3/2	05/14/2001	RPV	1-RPV-1043-D	Meridional Weld @ 90 degrees in Lower Head	B-A	B1.22	UT	70%	IWB-2500-3	Exam limited due to Incore Penetrations interference.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to incore penetrations interference	No
001800	2/3/2	05/14/2001	RPV	1-RPV-1043-E	Meridional Weld @ 150 degrees in Lower Head	B-A	B1.22	UT	70%	IWB-2500-3	Exam limited due to Incore Penetrations interference.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to incore penetrations interference	No
001900	2/3/2	05/14/2001	RPV	1-RPV-1043-F	Meridional Weld @ 210 degrees in Lower Head	B-A	B1.22	UT	70%	IWB-2500-3	Exam limited due to Incore Penetrations interference.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to incore penetrations interference	No
004400	2/3/2	04/23/2001	RPV	1-RPV-6046B	Dollar Plate Closure Weld	B-A	B1.21	UT	40% Due to personnel exposure concerns coverage was estimated.	IWB-2500-3	Exam limited due to CRD Penetrations interference.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to CRD penetrations interference. Exam coverage was estimated due to personnel exposure concerns. Dose rates in excess of 1R/hr on head were present.	No
004500	2/3/2	04/20/2001	RPV	1-RPV-1046A	MERIDIONAL WELD @300 DEG.	B-A	B1.22	UT	83.18%	IWB-2500-3	Exam limited due to head transition and shroud ring interferences.	No Recordable Indications	Configuration	Physical Restriction- Exam limited due to head transition and shroud ring interferences.	No
004600	2/3/2	04/21/2001	RPV	1-RPV-1046B	MERIDIONAL WELD @ 0 DEG.	B-A	B1.22	UT	67.79%	IWB-2500-3	Exam limited due to Closure Head Lifting Lug interference.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to Closure Head Lifting Lug interference.	No
004700	2/3/2	04/20/2001	RPV	1-RPV-1046C	MERIDIONAL WELD @ 60 DEG.	B-A	B1.22	UT	83.18%	IWB-2500-3	Exam limited due to head transition and shroud ring interferences.	No Recordable Indications	Configuration	Physical Restriction- Exam limited due to head transition and shroud ring interferences.	No

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Relief Request: S1-RR-B01
Salem Unit 1- 2nd Inservice Inspection Ten-Year NDE Exam Limitations

Summary No.	Interval/Period/Outage No.	Exam Date	System	Component Identification	Geometric Configuration	ASME Category	Item No.	Exam Method Limited	Examination Completed Amount	Code Required Volume	Comments	Exam Results for Area Inspected	Restriction Type	Additional Restriction Detail & Type	Augmented Exam
004800	2/3/2	04/20/2001	RPV	1-RPV-1046D	MERIDIONAL WELD @ 120 DEG.	B-A	B1.22	UT	67.79%	IWB-2500-3	Exam limited due to Closure Head Lifting Lug interference.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to Closure Head Lifting Lug interference.	No
004900	2/3/2	04/20/2001	RPV	1-RPV-1046E	MERIDIONAL WELD @ 180 DEG.	B-A	B1.22	UT	83.18%	IWB-2500-3	Exam limited due to head transition and shroud ring interferences.	No Recordable Indications	Configuration	Physical Restriction- Exam limited due to head transition and shroud ring interferences.	No
005000	2/3/2	04/20/2001	RPV	1-RPV-1046F	MERIDIONAL WELD @ 240 DEG.	B-A	B1.22	UT	67.79%	IWB-2500-3	Exam limited due to Closure Head Lifting Lug interference.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to Closure Head Lifting Lug interference.	No
006325	2/3/2	04/24/2001	PZR	1-PZR-20	Longitudinal Weld Shell J	B-B	B2.12	UT	41.76%	IWB-2500-2	Exam limited due to the component's insulation support ring is present in the area.	No Recordable Indications	Configuration	Physical Restriction- Insulation Ring limited exam to 5 inches	No
007901	2/3/2	04/19/2001	13-STG	13-STG-11	Lower Head to Tube Sheet	B-B	B2.40	UT	69.77%	IWB-2500-6	Exam limited due to the 4 lower vertical steam generator supports interference, name plate, outer blend radius and tubesheet configuration.	No Recordable Indications	Configuration	Physical Restriction- due to the 4 lower vertical steam generator supports interference, name plate, outer blend radius and tubesheet configuration	No
008801	2/2/3	02/20/1997	14-STG	14-STG-11	Lower Head to Tube Sheet	B-B	B2.40	UT	75%	IWB-2500-6	Exam limited due to the 4 lower vertical steam generator supports interference, name plate, outer blend radius and tubesheet configuration.	Indications were noted and evaluated to be acceptable based upon ASME XI code requirements (1983 Ed. With Addenda through Summer 1983). Indications possessed no measurable through-wall dimension.	Configuration	Physical Restriction- due to the 4 lower vertical steam generator supports interference, name plate, outer blend radius and tubesheet configuration	No
009701	2/2/3	02/20/1997	12-STG	12-STG-11	Lower Head to Tube Sheet	B-B	B2.40	UT	78%	IWB-2500-6	Exam limited due to the 4 lower vertical steam generator supports interference, name plate, outer blend radius and tubesheet configuration.	No Recordable Indications	Configuration	Physical Restriction- due to the 4 lower vertical steam generator supports interference, name plate, outer blend radius and tubesheet configuration	No
010601	2/2/3	02/20/1997	11-STG	11-STG-11	Lower Head to Tube Sheet	B-B	B2.40	UT	77%	IWB-2500-6	Exam limited due to the 4 lower vertical steam generator supports interference, name plate, outer blend radius and tubesheet configuration.	No Recordable Indications	Configuration	Physical Restriction- due to the 4 lower vertical steam generator supports interference, name plate, outer blend radius and tubesheet configuration	No
023400	2/3/2	04/21/2001	PR	6-PR-1104-1	Nozzle to Safe-End	B-F	B5.40	UT	34.38%	IWB-2500-8	Exam limited due to nozzle and safe end configuration.	No Recordable Indications	Configuration	Physical Restriction- due to nozzle and safe-end configuration.	No

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Salem Unit 1- 2nd Inservice Inspection Ten-Year NDE Exam Limitations

Summary No.	Interval/ Period/ Outage No.	Exam Date	System	Component Identification	Geometric Configuration	ASME Category	Item No.	Exam Method Limited	Examination Completed Amount	Code Required Volume	Comments	Exam Results for Area Inspected	Restriction Type	Additional Restriction Detail & Type	Augmented Exam
024600	2/3/2	04/21/2001	PR	6-PR-1103-1	Nozzle to Safe-End	B-F	B5.40	UT	38.10%	IWB-2500-8	Exam limited due to nozzle and safe end configuration.	No Recordable Indications	Configuration	Physical Restriction- due to nozzle and safe-end configuration.	No
025900	2/3/2	04/21/2001	PR	4-PR-1100-1	Nozzle to Safe-End	B-F	B5.40	UT	34.38%	IWB-2500-8	Exam limited due to nozzle and safe end configuration.	No Recordable Indications	Configuration	Physical Restriction- due to nozzle and safe-end configuration.	No
029700	2/2/1	05/06/1992	PS	14-PS-1131-2	Nozzle to Pipe	B-F	B5.40	UT	50%	IWB-2500-8	Exam limited due to nozzle configuration. No exams were performed from the nozzle side due to the OD configuration.	No Recordable Indications	Configuration	Physical Restriction- due to nozzle configuration.	No
033500	2/3/2	04/21/2001	PS	4-PS-1131-29	Safe-End to Nozzle	B-F	B5.40	UT	34.38%	IWB-2500-8	Exam limited due to nozzle and safe end configuration.	No Recordable Indications	Configuration	Physical Restriction- due to safe-end to nozzle configuration.	No
039200	2/3/1	10/18/1999	RC	31-RC-1130-2R1	Nozzle to Elbow	B-F	B5.70	UT	25%	IWB-2500-8	Exam limited due to nozzle configuration and limited scan area and the elbow's materials acoustic properties associated with cast stainless steel (A-351 GR CF8M).	No Recordable Indications	Configuration	Physical Restriction- due to safe-end to nozzle configuration limits exam to the weld only. Material Properties- The elbow's cast stainless steel (A-352,GR CF8M) does not support ultrasonic examination due to acoustic properties.	No
050210	2/3/1	10/18/1999	RC	29-RC-1130-5R1	Elbow to Nozzle	B-F	B5.70	UT	25%	IWB-2500-8	Exam limited due to nozzle configuration and limited scan area and the elbow's materials acoustic properties associated with cast stainless steel (A-351 GR CF8M).	No Recordable Indications	Configuration	Physical Restriction- due to safe-end to nozzle configuration limits exam to the weld only. Material Properties- The elbow's cast stainless steel (A-352,GR CF8M) does not support ultrasonic examination due to acoustic properties.	No
052600	2/3/1	10/18/1999	RC	29-RC-1120-5R1	Elbow to Nozzle	B-F	B5.70	UT	25%	IWB-2500-8	Exam limited due to nozzle configuration and limited scan area and the elbow's materials acoustic properties associated with cast stainless steel (A-351 GR CF8M).	No Recordable Indications	Configuration	Physical Restriction- due to safe-end to nozzle configuration limits exam to the weld only. Material Properties- The elbow's cast stainless steel (A-352,GR CF8M) does not support ultrasonic examination due to acoustic properties.	No
054300	2/3/1	10/18/1999	RC	29-RC-1110-4R1	Elbow to Nozzle	B-F	B5.70	UT	25%	IWB-2500-8	Exam limited due to nozzle configuration and limited scan area and the elbow's materials acoustic properties associated with cast stainless steel (A-351 GR CF8M).	No Recordable Indications	Configuration	Physical Restriction- due to safe-end to nozzle configuration limits exam to the weld only. Material Properties- The elbow's cast stainless steel (A-352,GR CF8M) does not support ultrasonic examination due to acoustic properties.	No

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Summary No.	Interval/Period/Outage No.	Exam Date	System	Component Identification	Geometric Configuration	ASME Category	Item No.	Exam Method Limited	Examination Completed Amount	Code Required Volume	Comments	Exam Results for Area Inspected	Restriction Type	Additional Restriction Detail & Type	Augmented Exam
190800	2/1/1	05/14/1992	11-RCP	11-PMP-Bolts 1-24	Pump Bolts	B-G-1	B6.180	UT	70%	IWB-2500-12	Examined 17 of 24 bolts (70%). The remaining 7 studs (30%) were unable to be examined due to inaccessibility resulting from permanently installed miscellaneous piping (oil pans, CVCS piping and Instrumentation Lines) located over top of the stud UT inspection heater holes for studs 3,4,5,6,13,22, and 23.	No Recordable Indications	Inaccessibility (7 bolts)	Physical Restriction- Seven bolts were unable to be examined due to inaccessibility. Access restrictions were due to permanently installed miscellaneous piping (oil pans, CVCS piping and Instrumentation Lines) located over top of the stud UT inspection heater holes for studs 3,4,5,6,13,22, and 23 that prevent transducer access.	No
191600	2/3/2	04/17/2001	12-RCP	12-PMP-Bolts 1-24	Pump Bolts	B-G-1	B6.180	UT	67%	IWB-2500-12	Examined 16 of 24 bolts (67%). The remaining 8 (33%) studs were unable to be examined due to inaccessibility resulting from permanently installed miscellaneous piping (oil pans, CVCS piping and Instrumentation Lines) located over top of the stud UT inspection heater holes for studs 3,4,5,6,7,13,14, and 23.	No Recordable Indications	Inaccessibility (8 bolts)	Physical Restriction- Seven bolts were unable to be examined due to inaccessibility. Access restrictions were due to permanently installed miscellaneous piping (oil pans, CVCS piping and Instrumentation Lines) located over top of the stud UT inspection heater holes for studs 3,4,5,6,7,13,14, and 23 that prevent transducer access.	No
030100	2/3/1	10/20/1999	PS	4-PS-1131-1	Branch Connection to Pipe	B-J	B9.11	UT	75%	IWB-2500-8	Exam limited due to the branch configuration.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Elbow to Branch Configuration	No
036500	2/1/2	02/23/1991	PS	4-PS-1111-23	Valve to Tee	B-J	B9.11	UT	78%	IWB-2500-8	Exam limited due to the valve to tee configuration.	Geometry Noted	Configuration	Single Side Access- Austenitic Stainless Steel- Exam limited due to the valve to tee configuration.	No
045600	2/3/1	10/20/1999	RC	31-RC-1110-4	Pipe to Elbow	B-J	B9.11	UT	37.70%	IWB-2500-8	Exam limited due to the elbow's materials acoustic properties associated with cast stainless steel (A-351 GR CF8M).	No Recordable Indications	Configuration	Material Properties- The elbow's cast stainless steel (A-352,GR CF8M) does not support ultrasonic examination due to acoustic properties.	No

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Salem Unit 1- 2nd Inservice Inspection Ten-Year NDE Exam Limitations

Summary No.	Interval/Period/Outage No.	Exam Date	System	Component Identification	Geometric Configuration	ASME Category	Item No.	Exam Method Limited	Examination Completed Amount	Code Required Volume	Comments	Exam Results for Area Inspected	Restriction Type	Additional Restriction Detail & Type	Augmented Exam
096700	2/2/2	10/26/93	SJ	10-SJ-1141-14	Valve to Tee	B-J	B9.11	UT	0%	IWB-2500-8	Exam limited due to the valve to tee configuration.	Other	Configuration	Single Side Access- Austenitic Stainless Steel- Exam limited due to the valve to tee configuration.	No
098500	2/2/3	10/26/1995	SJ	10-SJ-1131-10	Pipe to Elbow	B-J	B9.11	UT	50%	IWB-2500-8	Exam limited due to elbow configuration.	No Recordable Indications	Configuration	Physical Restriction- Pipe to Elbow Configuration. The elbow's shortened intrados radius precludes examination of 4".	No
100200	2/3/1	10/20/1999	SJ	10-SJ-1121-8	Elbow to Pipe	B-J	B9.11	UT	47.40%	IWB-2500-8	Exam limited due to a penetration wall obstruction.	No Recordable Indications	Configuration	Physical Restriction- Elbow to Pipe Configuration. The presence of the wall penetration limited supported examination from the elbow side only due to the close proximity of the weld to the wall penetration.	No
103700	2/2/1	05/08/1992	SJ	10-SJ-1111-18	Valve to Elbow	B-J	B9.11	UT	50%	IWB-2500-8	Exam limited due to valve to elbow configuration.	Geometry Noted	Configuration	Single Side Access- Austenitic Stainless Steel- Valve to Elbow Configuration	No
104100	2/2/1	05/05/1989	SJ	10-SJ-1111-22	Pipe to Branch Connection	B-J	B9.11	UT	50%	IWB-2500-8	Exam limited on the downstream side due to branch connection configuration.	Geometry Noted	Configuration	Single Side Access- Austenitic Stainless Steel- Pipe to Branch Connection Configuration	No
111300	2/2/3	10/26/1995	SJ	10-SJ-1152-19	Pipe to Tee	B-J	B9.11	UT	50%	IWB-2500-8	Exam limited due to the inner radius of the tee configuration.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Pipe to Tee Configuration	No
115300	2/2/1	05/19/1992	SJ	6-SJ-1141-1	Reducer to Elbow	B-J	B9.11	UT	50%	IWB-2500-8	Exam limited due to the reducer to elbow configuration.	No Recordable Indications	Configuration	Physical Restriction- Exam limited due to the reducer to elbow configuration.	Yes IEB 76-06
117000	2/1/2	03/11/1991	SJ	6-SJ-1141-18	Elbow to Branch Connection	B-J	B9.11	UT	50%	IWB-2500-8	Exam limited due to the elbow to branch connection configuration.	Geometry Noted	Configuration	Single Side Access- Austenitic Stainless Steel- Exam limited due to the elbow to branch connection configuration.	No
122300	2/3/1	10/15/1999	SJ	6-SJ-1121-2	Elbow to Valve	B-J	B9.11	UT	63.90%	IWB-2500-8	Exam limited due to elbow to valve configuration.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Elbow to Valve Configuration	No
122700	2/1/1	05/05/1989	SJ	6-SJ-1112-1	Reducer to Valve	B-J	B9.11	UT	50%	IWB-2500-8	Exam limited from the downstream side due to valve configuration.	Geometry Noted	Configuration	Single Side Access- Austenitic Stainless Steel- Reducer to Valve Configuration	No
124100	2/2/1	05/19/1992	SJ	6-SJ-1111-1	Reducer to Valve	B-J	B9.11	UT	50%	IWB-2500-8	Exam limited due to the reducer to valve configuration.	Geometry Noted	Configuration	Single Side Access- Austenitic Stainless Steel- Exam limited due to the reducer to valve configuration.	No

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Summary No.	Interval/ Period/ Outage No.	Exam Date	System	Component Identification	Geometric Configuration	ASME Category	Item No.	Exam Method Limited	Examination Completed Amount	Code Required Volume	Comments	Exam Results for Area Inspected	Restriction Type	Additional Restriction Detail & Type	Augmented Exam
129400	2/1/2	02/21/1991	SJ	4-SJ-1182-18	Pipe to Elbow	B-J	B9.11	UT	50%	IWB-2500-8	Exam limited due to Branch connection configuration.	Geometry Noted	Configuration	<u>Physical Restriction-</u> Examination limited due to short elbow radius configuration.	No
133800	2/2/1	10/19/1992	SJ	4-SJ-1172-28	Tee to Reducer	B-J	B9.11	UT	50%	IWB-2500-8	Exam limited due to the tee to reducer configuration.	Geometry Noted	Configuration	<u>Single Side Access- Austenitic Stainless Steel-</u> Examination limited due to the tee to reducer configuration.	No
016700	2/3/2	04/24/2001	CVCS	3-CV-1141-14	Valve to Elbow	B-J	B9.21	UT	50%	IWB-2500-8	Exam limited due to valve to elbow configuration.	No Recordable Indications	Configuration	<u>Single Side Access- Austenitic Stainless Steel-</u> Valve to Elbow Configuration	Yes-IEB 88-08
016801	2/2/3	10/30/1995	CVCS	3-CV-1141-15	Elbow to Branch Connection	B-J	B9.21	UT	50%	IWB-2500-8	Exam limited due to branch configuration.	No Recordable Indications	Configuration	<u>Single Side Access- Austenitic Stainless Steel-</u> Elbow to Branch Configuration	Yes-IEB 88-08
018300	2/2/1	04/30/1992	CVCS	3-CV-1133-15	Valve to Pipe	B-J	B9.21	UT	50%	IWB-2500-8	Exam limited due to valve configuration.	No Recordable Indications	Configuration	<u>Single Side Access- Austenitic Stainless Steel-</u> Valve to Pipe Configuration	No
161100	2/1/2	02/16/1991	SJ	2-SJ-1128-57	Coupling to Pipe	B-J	B9.40	PT	83%	IWB-2500-8	Exam limited due to snubber clamp and plate interference.	No Recordable Indications	Inaccessibility	<u>Physical Restriction-</u> Examination limited due snubber clamp and plate interference.	No
180900	2/1/1	05/09/1989	SJ	1.5-SJ-1122-7	Tee to Pipe	B-J	B9.40	PT	75%	IWB-2500-8	Exam limited due to welded pipe support interference.	No Recordable Indications	Configuration	<u>Physical Restriction-</u> Examination limited due welded pipe support. No exam able to be performed for 3.5" - (6" and 9.5").	No
191000	2/1/1	05/12/1989	RCP	11-PMP-1LG	Lug	B-K-1	B10.20	PT	83%	IWB-2500-15	Exam limited due to permanent support structure.	No Recordable Indications	Configuration	<u>Physical Restriction-</u> Examination limited due to permanent support structure between 83" -to 3".	No
191100	2/1/1	05/12/1989	RCP	11-PMP-2LG	Lug	B-K-1	B10.20	PT	83%	IWB-2500-15	Exam limited due to permanent support structure.	No Recordable Indications	Configuration	<u>Physical Restriction-</u> Examination limited due to permanent support structure between 83" to 3".	No
192600	2/3/1	10/08/1999	13-RCP	13-PMP-1LG	Pump Lug	B-K-1	B10.20	PT	77.50%	IWB-2500-15	Exam limited due to the configuration of the pump support structure.	No Recordable Indications	Inaccessibility	<u>Physical Restriction-</u> The bottom side of the lug was inaccessible due to it being covered by the pump support structure.	No

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Summary No.	Interval/ Period/ Outage No.	Exam Date	System	Component Identification	Geometric Configuration	ASME Category	Item No.	Exam Method Limited	Examination Completed Amount	Code Required Volume	Comments	Exam Results for Area Inspected	Restriction Type	Additional Restriction Detail & Type	Augmented Exam
192650	2/3/1	10/08/1999	13-RCP	13-PMP-2LG	Pump Lug	B-K-1	B10.20	PT	77.50%	IWB-2500-15	Exam limited due to the configuration of the pump support structure.	No Recordable Indications	Inaccessibility	<u>Physical Restriction</u> - The bottom side of the lug was inaccessible due to it being covered by the pump support structure.	No
192700	2/3/1	10/08/1999	13-RCP	13-PMP-3LG	Pump Lug	B-K-1	B10.20	PT	77.50%	IWB-2500-15	Exam limited due to the configuration of the pump support structure.	No Recordable Indications	Inaccessibility	<u>Physical Restriction</u> - The bottom side of the lug was inaccessible due to it being covered by the pump support structure.	No

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Salem Unit 1- 2nd Inservice Inspection Ten-Year NDE Exam Limitations

Component Description

Class 2 Component Limitations identified during Salem Unit 1 2nd Ten-Year Inservice Inspection Interval

ASME Code Class:

ASME Section XI Class 2

Code Requirement

Salem Unit 1 2nd Ten-Year Inservice Inspection Interval inservice inspection examinations were performed in accordance with the requirements of ASME Boiler and Pressure Vessel Code Section XI 1983 Edition up through and including Summer 1983 Addenda Article IWC-2500 to the extent practical.

Imposed September 22, 1999 Final Rule requirements 10CFR50.55a(b)(2)(xv)(A), 10CFR50.55a(b)(2)(xv)(G), and 10CFR50.55a(b)(2)(xvi), defined new requirements for coverage and examination demonstrations. These requirements affected both piping and Reactor Pressure Vessel (RPV) examinations.

The 3rd Ten-Year Inservice Inspection Interval inservice inspection examinations will be performed in accordance with the above Final Rule requirements and ASME Section XI 1995 Edition up through and including 1996 Addenda Article IWC-2500 requirements to the extent practical.

Basis for Relief

Pursuant to 10CFR50.55a (a)(3)(ii), relief is requested from performing the inservice examination for the inaccessible or physically obstructed portions of the examination areas identified within Salem Unit 1- 2nd Inservice Inspection Ten-Year NDE Exam Limitations table attached. This information is also contained within Salem's Unit 1 Inservice Inspection Program Long Term Plan.

In addition, previously issued RPV qualifications do not met the new requirements for single side access, that are listed in the September 22, 1999 Final Rule, 10CFR50.55a(b)(2)(xv)(G)(1),(2) and 10CFR50.55a(b)(2)(xvi)(A).

The prevailing limitations and the specific relief for each weld are contained within the Salem Unit 1 - 2nd Inservice Inspection Ten-Year NDE Exam Limitations table. The table contains the following entries pertaining to each subject weld/bolting areas:

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Salem Unit 1- 2nd Inservice Inspection Ten-Year NDE Exam Limitations

Component Summary Number	Component Identification	Exam Method Limited	Summarized Exam Results for Area Inspected
Interval/Period/Outage Number	Geometric configuration	Estimated total coverage area	Restriction Type
Exam Date	ASME Category	Code Required Volume Requirement Description	Restriction Description Details
System Designation	ASME Item Number	Obstruction Description (General)	Augmented Exam Description

The subject welds received volumetric examination by radiography and/or surface examinations during fabrication, in accordance with approved construction code requirements that provide adequate assurance of the structural integrity of welds prior to plant operation.

Throughout 10CFR50.55a (g) numerous references are made allowing performance of these inspections "to the extent practical". Some of these specific paragraphs are:

(g) *Inservice inspection requirements.* Requirements for inservice testing of Class 1, Class 2, and Class 3 pumps and valves are located in §50.55a(f).

(1) For a boiling or pressurized water-cooled nuclear power facility whose construction permit was issued before January 1, 1971, components (including supports) must meet the requirements of paragraphs (g)(4) and (g)(5) of this section **to the extent practical**. Components, which are part of the reactor coolant pressure boundary and their supports, must meet the requirements applicable to components, which are classified as ASME Code Class 1. Other safety-related pressure vessels, piping, pumps and valves, and their supports must meet the requirements applicable to components which are classified as ASME Code Class 2 or Class 3.

(4) Throughout the service life of a boiling or pressurized water-cooled nuclear power facility, components (including supports) which are classified as ASME Code Class 1, Class 2 and Class 3 must meet the requirements, except design and access provisions and preservice examination requirements, set forth in Section XI of editions of the ASME Boiler and Pressure Vessel Code and Addenda that become effective subsequent to editions specified in paragraphs (g)(2) and (g)(3) of this section and that are incorporated by reference in paragraph (b) of this section, **to the extent practical** within the limitations of design, geometry and materials of construction of the components. Components which are classified as Class MC pressure retaining components and their integral attachments, and components which are classified as Class CC pressure retaining components and their integral attachments must meet the requirements, except design and access provisions and preservice examination requirements, set forth in Section XI of the ASME Boiler and Pressure Vessel Code and Addenda that are incorporated by reference in paragraph (b) of this section, subject to the limitation listed in paragraph (b)(2)(vi) of this section and the modifications listed in paragraphs (b)(2)(viii) and (b)(2)(ix) of this section, **to the extent practical** within the limitation of design, geometry and materials of construction of the components.

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The ASME Code itself provides allowance for "limited" examinations. The ASME Section V 1983 Edition up through and including Summer 1983 Addenda paragraph T-441.4.4 Extent of Scanning and later editions of the code indicate state: "Wherever feasible, the scanning of the examination volume shall be carried out from both sides of the weld on the same surface. Where configuration or adjacent parts of the component are such that scanning from both sides is not feasible, this fact shall be included in the report of examination.

PSEG Nuclear utilizes approved technical procedures written in accordance to applicable ASME Code section/paragraph criterion for area/volume requirements. Recognizing that because of component design, construction, etc. there are cases when examinations can only be performed to "the greatest extent practical". In those cases, plant procedures require the documentation of the location and cause of the limitation.

The Performance Demonstration Initiative (PDI) is in agreement with the NRC's September 22, 1999 Final Rule regarding single side access for piping. The Final Rule requires that if access is available, the austenitic steel weld shall be scanned in each of the four directions (parallel and perpendicular to the weld) where required. Ultrasonic examination of ferritic steel welds requires scanning in the two axial scan directions. Circumferential scanning is required in two directions only when axial indications were noted during preservice inspections. Coverage credit may be taken for single side exams on ferritic piping. However, for austenitic piping, a procedure must be qualified with flaws on the inaccessible side of the weld.

Current technology is not capable of reliably detecting or sizing flaws on the far side of austenitic weld for configurations common to US nuclear applications. To demonstrate that the best available technology was applied, PDI provides a best effort qualification instead of a complete single sided qualification. PDI Performance Demonstration Qualification Summary (PDQS) austenitic piping certificates list the limitation that single side examination is performed on a best effort basis. When performing single side access of austenitic stainless steel piping welds the best available techniques are used from the accessible side of the weld, as qualified through the PDI. This will require that the far side of the weld, which can only be accessed from one side, must be listed as an area of no coverage. In these instances PSEG Nuclear has documented and claimed credit for only obtaining 50% of the code-required coverage for any completed single side austenitic stainless steel piping weld exams.

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Alternative Examination

Alternate examinations were considered for each exam area where a limitation exists, however no alternative examinations were considered to be sufficient or appropriate.

System leakage tests were conducted upon class 2 pressure boundaries during station start-up after refueling outages. Likewise, surface exams were conducted, when required ASME XI requirements to provide an additional level of assurance for the acceptability of the system's integrity and plant safety.

Applicability

This Relief Request is applicable to the following:

Salem Unit 1 – Second Ten-Year Inservice Inspection Interval.

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Salem Unit 1- 2nd Inservice Inspection Ten-Year NDE Exam Limitations

Summary No.	Interval/Period/ Outage No.	Exam Date	System	Component Identification	Geometric Configuration	ASME Category	Item No.	Exam Method Limited	Examination Completed Amount	Code Required Volume	Comments	Exam Results for Area Inspected	Restriction Type	Additional Restriction Detail & Type	Augmented Exam
204400	2/3/2	04/27/2001	BIT	1-BIT-A	Shell Circ. Weld	C-A	C1.10	UT	85.90%	IWC-2500-1	Examination limited due to vessel supports and nozzles.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to vessel supports and nozzles.	No
204410	2/3/2	04/27/2001	BIT	1-BIT-B	Shell Circ. Weld	C-A	C1.10	UT	65.50%	IWC-2500-1	Examination limited due to insulation ring, branch connections, and welded lugs.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to insulation ring, branch connections, and welded lugs.	No
205030	2/2/2	10/13/1993	RCF	1-RCF-2	Flange to Shell	C-A	C1.10	UT	73%	IWC-2500-1	Exam limited due to support structure interference and flange to shell configuration.	No Recordable Indications	Configuration	Physical Restriction- Exam limited due to support structure interference and flange to shell configuration between 17" - 20.25".	No
205150	2/1/1	05/06/1989	RHRHEX	11-RHRHEX-1	Flange to Shell	C-A	C1.10	UT	80%	IWC-2500-1	Exam limited due to flange configuration and nozzle interference.	Geometry Noted	Configuration	Physical Restriction- Examination limited due to flange configuration and nozzle interference between 112"- 5" and 52"- 66".	No
205160	2/3/2	04/14/2001	RHRHEX	11-RHRHEX-2	Shell Circ. Weld	C-A	C1.10	UT	16.03%	IWC-2500-1	Exam limited due to flange configuration, nozzle and vessel supports.	Geometry Noted	Configuration	Physical Restriction- Examination limited due to flange configuration, nozzle and vessel supports.	No
204800	2/3/1	10/15/1999	CVCT	1-CVCT-2	Shell Circ. Weld	C-A	C1.20	UT	81.60%	IWC-2500-1	Exam limited due to a welded support obstruction.	Recordable Indications Noted- PSBP 324293 and 50.59 Performed (CR 70001790 Initiated)	Configuration	Physical Restriction- Examination limited due to a welded support legs that caused a scanning obstruction. Scan area was obstructed for 13" at 4 locations at 45,135,225, and 315 degrees.	No
204870	2/3/1	10/12/1999	ELHEX	1-ELHEX-2	Shell Circ. Weld	C-A	C1.20	UT	71.70%	IWC-2500-1	Exam limited due to two branch connections configuration	Geometry Noted	Configuration	Physical Restriction- No Obstructions were noted on the head side. The total length of the two branch connections is at top center of the vessel and the other is at 10.5" clockwise to 14.5" clockwise.	No
205020	2/2/2	10/13/1993	RCF	1-RCF-1	Upper Head to Flange	C-A	C1.20	UT	74%	IWC-2500-1	Exam limited due to flange configuration and head curvature.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to flange configuration and head curvature.	No
205040	2/3/2	04/10/2001	RCF	1-RCF-3	Shell to Lower Head	C-A	C1.20	UT	57.34%	IWC-2500-1	Exam limited due to support lug and nozzle interference.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to support lugs and nozzle.	No
205095	2/1/2	02/27/1991	RHE	1-RHE-3	Tubesheet to Shell	C-A	C1.30	UT	75%	IWC-2500-2	Exam limited due to branch connection, hanger and restraint interference.	ID Geometry Noted	Configuration	Physical Restriction- Exam limited due to branch connection, hanger and restraint interference.	No

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Summary No.	Interval/Period/ Outage No.	Exam Date	System	Component Identification	Geometric Configuration	ASME Category	Item No.	Exam Method Limited	Examination Completed Amount	Code Required Volume	Comments	Exam Results for Area Inspected	Restriction Type	Additional Restriction Detail & Type	Augmented Exam
204001	2/3/2	04/27/2001	11-STG	16-BFN-2111-1	Nozzle to Shell	C-B	C2.21	UT	70.64%	IWC-2500-4(a)	Examination limited due to insulation ring on the shell.	No Recordable Indications	Inaccessibility	Physical Restriction- Approximately 16" of weldment is unable to be examined due to the physical location of the steam generator's insulation ring located on the shell. Removal or movement of the insulation ring would require a large amount of resources and personnel exposure and time to erect/remove scaffolding, and remove/reinstall insulation located above/below the nozzle in order to gain access for examination.	No
204001	2/3/2	04/27/2001	11-STG	16-BFN-2111-1	Nozzle to Shell	C-B	C2.21	MT	85.21%	IWC-2500-4(a)	Examination limited due to insulation ring on the shell.	No Recordable Indications	Inaccessibility	Physical Restriction- Approximately 16" of weldment is unable to be examined due to the physical location of the steam generator's insulation ring located on the shell. Removal or movement of the insulation ring would require a large amount of resources and personnel exposure and time to erect/remove scaffolding, and remove/reinstall insulation located above/below the nozzle in order to gain access for examination.	No
204450	2/3/1	10/20/1999	BIT	1-BIT-2	Nozzle to Shell	C-B	C2.21	UT	21.20%	IWC-2500-4(a)	Exam limited due to the nozzle configuration.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to insulation ring, branch connections, and welded lugs.	No
205163	2/2/1	05/06/1989	RHRHEX	11-RHRHEX-IN	Nozzle to Shell	C-B	C2.21	PT	18%	IWC-2500-4(a)	Exam limited due to adjacent welds.	No Recordable Indications	Configuration	Physical Restriction- No Examinations were performed from 1"-2" and 58"-60" and from 28"-32" shell side due to proximity of welds	No
205163	2/2/1	05/06/1989	RHRHEX	11-RHRHEX-IN	Nozzle to Shell	C-B	C2.21	UT	25.44%-45S 22.47%-60L	IWC-2500-4(a)	Exam limited due to nozzle configuration, support lugs upstream and proximity of welds 1 and 2.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to nozzle configuration downstream, support lugs upstream and proximity of welds 1 and 2.	No
205168	2/3/2	04/24/2001	RHRHEX	11-RHRHEX-OUT	Nozzle to Shell	C-B	C2.21	UT	25.44%-45S 22.47%-60L	IWC-2500-4(a)	Exam limited due to nozzle configuration, support lugs upstream and proximity of welds 1 and 2.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to nozzle configuration downstream, support lugs upstream and proximity of welds 1 and 2.	No

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Summary No.	Interval/Period/ Outage No.	Exam Date	System	Component Identification	Geometric Configuration	ASME Category	Item No.	Exam Method Limited	Examination Completed Amount	Code Required Volume	Comments	Exam Results for Area Inspected	Restriction Type	Additional Restriction Detail & Type	Augmented Exam
214910	2/2/2	05/14/1992	FW	14-BF-2121-3PL-1	Pipe Lug	C-C	C3.20	MT	26.50%	IWC-2500-5	Exam limited due to the close proximity of the penetration.	No Recordable Indications	Configuration	Physical Restriction- Total Weld Length 24.5" - Examined 6.5" due to limited access caused by the close proximity of the penetration.	No
218050	2/1/1	05/12/1989	BF	14-BF-2111-3PL-1	Pipe Lug	C-C	C3.20	MT	67%	IWC-2500-5	Exam limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No Recordable Indications	Inaccessibility	Physical Restriction- Examination limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No
218060	2/1/1	05/12/1989	BF	14-BF-2111-3PL-2	Pipe Lug	C-C	C3.20	MT	67%	IWC-2500-5	Exam limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No Recordable Indications	Inaccessibility	Physical Restriction- Examination limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No
218070	2/1/1	05/12/1989	BF	14-BF-2111-3PL-3	Pipe Lug	C-C	C3.20	MT	67%	IWC-2500-5	Exam limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No Recordable Indications	Inaccessibility	Physical Restriction- Examination limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No
218080	2/1/1	05/12/1989	BF	14-BF-2111-3PL-4	Pipe Lug	C-C	C3.20	MT	67%	IWC-2500-5	Exam limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No Recordable Indications	Inaccessibility	Physical Restriction- Examination limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No
218090	2/1/1	05/12/1989	BF	14-BF-2111-3PL-5	Pipe Lug	C-C	C3.20	MT	67%	IWC-2500-5	Exam limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No Recordable Indications	Inaccessibility	Physical Restriction- Examination limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No
218100	2/1/1	05/12/1989	BF	14-BF-2111-3PL-6	Pipe Lug	C-C	C3.20	MT	67%	IWC-2500-5	Exam limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No Recordable Indications	Inaccessibility	Physical Restriction- Examination limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No
218110	2/1/1	05/12/1989	BF	14-BF-2111-3PL-7	Pipe Lug	C-C	C3.20	MT	67%	IWC-2500-5	Exam limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No Recordable Indications	Inaccessibility	Physical Restriction- Examination limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No

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Summary No.	Interval/Period/ Outage No.	Exam Date	System	Component Identification	Geometric Configuration	ASME Category	Item No.	Exam Method Limited	Examination Completed Amount	Code Required Volume	Comments	Exam Results for Area Inspected	Restriction Type	Additional Restriction Detail & Type	Augmented Exam
218120	2/1/1	05/12/1989	BF	14-BF-2111-3PL-8	Pipe Lug	C-C	C3.20	MT	67%	IWC-2500-5	Exam limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No Recordable Indications	Inaccessibility	Physical Restriction- Examination limited due to inaccessibility of the exam areas resulting from the restraint system associated with the lugs attached.	No
218130	2/3/1	10/15/1999	FW	14-BF-2111-3PS-1	Pipe Support	C-C	C3.20	MT	32%	IWC-2500-5	Exam limited due to a permanent obstruction from adjacent components and the component configuration.	No Recordable Indications	Configuration	Physical Restriction- Examined 14" due to limited access caused by the penetration support lugs.	No
227900	2/1/2	03/12/1991	MS	32-MS-2141-2PS-2	Pipe Support	C-C	C3.20	MT	25%	IWC-2500-5	Exam limited due to support lugs and instrumentation lines interference.	No Recordable Indications	Inaccessibility	Physical Restriction- Examination limited due to support lugs and instrumentation lines interference.	No
228000	2/3/1	10/15/1999	MS	32-MS-2141-2PL 1 thru 12	Pipe Lugs	C-C	C3.20	MT	65.40%	IWC-2500-5	Exam limited due to a permanent obstruction from the penetration wall.	No Recordable Indications	Configuration	Physical Restriction- The upstream side of each lug was unable to be examined due to the close proximity of the penetration.	No
229000	2/3/1	10/15/1999	MS	32-MS-2131-2PL 1 thru 12	Pipe Lugs	C-C	C3.20	MT	65.40%	IWC-2500-5	Exam limited due to a permanent obstruction from the penetration wall.	No Recordable Indications	Configuration	Physical Restriction- The upstream side of each lug was unable to be examined due to the close proximity of the penetration.	No
230000	2/2/1	03/12/1991	MS	32-MS-2121-2PS-2	Pipe Support	C-C	C3.20	MT	13%	IWC-2500-5	Exam limited due to lugs and instrumentation lines.	No Recordable Indications	Configuration	Physical Restriction- Examination completed from 29.75" to 43" due to lugs and instrument lines.	Yes- MEB 3-1
230100	2/3/1	10/15/1999	MS	32-MS-2121-2PL 1 thru 12	Pipe Lugs	C-C	C3.20	MT	65.40%	IWC-2500-5	Exam limited due to a permanent obstruction from the penetration wall.	No Recordable Indications	Configuration	Physical Restriction- The upstream side of each lug was unable to be examined due to the close proximity of the penetration.	No
231200	2/3/1	10/15/1999	MS	32-MS-2111-2PS-2	Pipe Support	C-C	C3.20	MT	35.80%	IWC-2500-5	Exam limited due to pipe support configuration.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to permanently installed structural elements.	No
231300	2/3/1	10/15/1999	MS	32-MS-2111-2PL 1 thru 12	Pipe Lugs	C-C	C3.20	MT	65.40%	IWC-2500-5	Exam limited due to a permanent obstruction from the penetration wall.	No Recordable Indications	Configuration	Physical Restriction- The upstream side of each lug was unable to be examined due to the close proximity of the penetration.	No
263332	2/3/1	10/15/1999	RHR	14-RH-2112-7PS-3	Pipe Support	C-C	C3.20	PT	67%	IWC-2500-5	Exam limited due to a permanent obstruction from the penetration wall.	No Recordable Indications	Configuration	Physical Restriction- A permanent obstruction from the penetration wall exists within 1.0" of the exam surface. Area is not accessible to support PT examination.	No

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263334	2/3/1	10/15/1999	RHR	14-RH-2112-7PS-4	Pipe Support	C-C	C3.20	PT	67%	IWC-2500-5	Exam limited due to a permanent obstruction from the penetration wall.	No Recordable Indications	Configuration	Physical Restriction- A permanent obstruction from the penetration wall exists within 1.0" of the exam surface. Area is not accessible to support PT examination.	No
205280	2/3/2	04/10/2001	CVCS	11-CHG/SI-PMP-IA (1-4)	Integrally Welded Supports	C-C	C3.30	PT	73%	IWC-2500-5	Exam limited due to pump supports and pump end cap obstruction.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to pump supports and pump end cap obstruction.	No
277900	2/2/2	05/20/1992	MS	12-MS-167-VS-1	Valve Support	C-C	C3.40	MT	81.90%	IWC-2500-5	Exam limited due to surrounding support structure	No Recordable Indications	Configuration	Physical Restriction- No exam able to be performed between due to an obstruction from the 12 main steam header permanent support structure.	No
277940	2/2/2	05/20/1992	MS	12-MS-167-VS-1A	Valve Support	C-C	C3.40	MT	81.90%	IWC-2500-5	Exam limited due to surrounding support structure	No Recordable Indications	Configuration	Physical Restriction- No exam able to be performed between due to an obstruction from the 12 main steam header permanent support structure.	No
277960	2/2/2	05/20/1992	MS	12-MS-167-VS-1B	Valve Support	C-C	C3.40	MT	64.10%	IWC-2500-5	Exam limited due to surrounding support structure	No Recordable Indications	Configuration	Physical Restriction- No exam able to be performed between due to an obstruction from the 12 main steam header permanent support structure.	No
278140	2/2/1	05/04/1989	MS	13-MS-167-VS-1A	Valve Support	C-C	C3.40	MT	81.90%	IWC-2500-5	No exam able to be performed between due to surrounding support structure	No Recordable Indications	Configuration	Physical Restriction- No exam able to be performed due to an obstruction from the 13 main steam header permanent support structure.	No
278240	2/2/1	05/04/1989	MS	13-MS-167-VS-2A	Valve Support	C-C	C3.40	MT	81.90%	IWC-2500-5	No exam able to be performed between due to surrounding support structure	No Recordable Indications	Configuration	Physical Restriction- No exam able to be performed due to an obstruction from the 13 main steam header permanent support structure.	No
278240	2/1/1	5/4/89	MS	13 MS 167 VS-2A	Valve Support	C-C	C3.40	MT	0%	IWC-2500-5	No exam able to be performed between due to surrounding support structure	Other	Inaccessibility	Physical Restriction- No exam able to be performed due to an obstruction from the 14 main steam header permanent support structure.	No
278340	2/3/1	10/15/1999	MS	14-MS-167-VS-1A	Valve Support	C-C	C3.40	MT	0%	IWC-2500-5	No exam able to be performed between due to surrounding support structure	Other	Inaccessibility	Physical Restriction- No exam able to be performed due to an obstruction from the 14 main steam header permanent support structure.	No

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278440	2/3/1	10/15/1999	MS	14-MS-167-VS-2A	Valve Support	C-C	C3.40	MT	0%	IWC-2500-5	No exam able to be performed between due to surrounding support structure	Other	Inaccessibility	Physical Restriction- No exam able to be performed due to an obstruction from the 14 main steam header permanent support structure.	No
278440	2/3/1	10/15/99	MS	14 MS 167 VS-2A	Valve Support	C-C	C3.40	MT	0%	IWC-2500-5	No exam able to be performed between due to surrounding support structure	Other	Inaccessibility	Physical Restriction- No exam able to be performed due to an obstruction from the 14 main steam header permanent support structure.	No
263422	2/3/1	10/20/1999	RHR	8-RH-2173-2	Valve to Elbow	C-F-1	A-E<3/8	UT	59.50%	IWC-2500-7	Exam limited due to the valve configuration.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Limitation exists for the valve side of the weld due to outside diameter geometry. Additional angles were used to improve code coverage to the extent practical.	Yes NRC RAI 11/9/88
263616	2/3/1	10/29/1999	RHR	8-RH-2116-2	Valve to Pipe	C-F-1	A-E<3/8	UT	57.20%	IWC-2500-7	Exam limited due to the valve configuration.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Examination limited due to the valve configurations.	Yes NRC RAI 11/9/88
263620	2/2/3	4/9/97	RH	8-RH-2116-4R1	Flange to Valve	C-F-1	A-E<3/8	UT	50%	IWC-2500-7	Exam limited due to flange to valve configuration.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Exam limited due to flange to valve configuration.	No
263620	2/2/3	04/09/1997	RHR	8-RH-2116-4R1	Flange to Valve	C-F-1	A-E<3/8	UT	50%	IWC-2500-7	Exam limited due to the flange to tee configuration.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Examination limited due to the flange to tee configuration.	Yes NRC RAI 11/9/88
354640	2/3/1	10/20/1999	CS	8-CS-2123-46	Valve to Elbow	C-F-1	A-E<3/8	UT	64.40%	IWC-2500-7	Exam limited due to the valve configuration.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Examination limited due to the valve configuration.	Yes NRC RAI 11/9/88
356360	2/3/1	10/20/1999	CS	8-CS-2114-46	Valve to Elbow	C-F-1	A-E<3/8	UT	73.50%	IWC-2500-7	Exam limited due to the valve configuration.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Examination limited due to the valve configuration.	Yes NRC RAI 11/9/88
263110	2/3/2	04/20/2001	PR	6-PR-2101-13	Pipe to Branch Connection	C-F-1	C5.11	UT	56.91%	IWC-2500-9	Exam limited due to branch connection configuration.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- No examination could be performed from the downstream side due to the nozzle configuration.	No
263304	2/2/2	10/19/93	RH	14-RH-2114-18	Flange to Pump	C-F-1	C5.11	UT	50%	IWC-2500-7	Exam limited due to flange to pump configuration.		Configuration	Single Side Access- Austenitic Stainless Steel- Limited examination due to flange to pump configuration.	No

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263614	2/3/1	10/29/1999	RHR	8-RH-2116-1	Pump to Valve	C-F-1	C5.11	UT	23.10%	IWC-2500-7	Exam limited due to the pump and valve configurations.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Examination limited due to the pump and valve configurations.	No
264206	2/3/2	04/14/2001	SJ	6-SJ-2104-4	Safe-End to Nozzle	C-F-1	C5.11	UT	37.50%	IWC-2500-7	Exam limited due to nozzle upstream and adjacent weld downstream.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Examination limited due to nozzle upstream and adjacent weld downstream.	No
360500	2/3/1	10/20/1999	CVCS	3-CV-2156-1	Tee to Pipe	C-F-1	C5.21	UT	58.30%	IWC-2500-7	Exam limited due to the tee configuration.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Examination limited due to the tee configuration.	No
384000	2/1/1	4/28/89	SJ	4-SJ-2113-19	Tee to Valve	C-F-1	C5.21	UT	77%	IWC-2500-7	Exam limited due to tee configuration.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Examination limited due to tee configuration.	No
385020	2/3/1	10/20/1999	SJ	3-SJ-2121-2	Pipe to Valve	C-F-1	C5.21	UT	56.50%	IWC-2500-7	Exam limited due to the valve configuration.	No Recordable Indications	Configuration	Single Side Access- Austenitic Stainless Steel- Examination limited due to the valve configuration.	No
385040	2/2/3	08/15/1997	SJ	3-SJ-2121-3R1	Valve to Valve	C-F-1	C5.21	UT	0%	IWC-2500-7	Exam limited due to the valves configuration.	Other	Configuration	Physical Restriction- Exam limited due to the valves configuration.	No
385060	2/2/3	10/22/1997	SJ	3-SJ-2121-4R1	Valve to Valve	C-F-1	C5.21	UT	0%	IWC-2500-7	Exam limited due to the valves configuration.	Other	Configuration	Physical Restriction- Exam limited due to the valves configuration.	No
222400	2/2/3	11/03/1995	MS	34-MS-2131-1	Pipe to Pipe	C-F-2	C5.51	MT	0%	IWC-2500-7	No UT performed from Upstream side due to welded collar. No UT performed from downstream side due to pipe taper. Exams unable to be performed since the weld is inaccessible due to structural design. I-Beams are too close to the exam area to allow examination.	Other	Inaccessibility	Physical Restriction- No UT performed from Upstream side due to welded collar. No UT performed from downstream side due to pipe taper. Exams unable to be performed since the weld is inaccessible due to structural design. I-Beams are too close to the exam area to allow examination.	Yes- MEB 3-1
222400	2/2/3	11/03/1995	MS	34-MS-2131-1	Pipe to Pipe	C-F-2	C5.51	UT	0%	IWC-2500-7	No UT performed from Upstream side due to welded collar. No UT performed from downstream side due to pipe taper. Exams unable to be performed since the weld is inaccessible due to structural design. I-Beams are too close to the exam area to allow examination.	No Recordable Indications	Inaccessibility	Physical Restriction- No UT performed from Upstream side due to welded collar. No UT performed from downstream side due to pipe taper. Exams unable to be performed since the weld is inaccessible due to structural design. I-Beams are too close to the exam area to allow examination.	Yes- MEB 3-1

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224100	2/2/3	11/07/1995	MS	34-MS-2131-2	Pipe to Valve	C-F-2	C5.51	MT	70%	IWC-2500-7	Exam limited due to permanently installed structural elements and insulation sheathing.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to permanently installed structural elements and insulation sheathing.	Yes- MEB 3-1
224100	2/2/3	11/07/1995	MS	34-MS-2131-2	Pipe to Valve	C-F-2	C5.51	UT	19%	IWC-2500-7	Exam limited due to permanently installed structural elements and insulation sheathing.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to permanently installed structural elements and insulation sheathing.	Yes- MEB 3-1
224200	2/2/3	11/03/1995	MS	34-MS-2121-1	Pipe to Pipe	C-F-2	C5.51	MT	18%	IWC-2500-7	Exam limited due to permanently installed structural elements.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to permanently installed structural elements.	Yes- MEB 3-1
224200	2/2/3	11/03/1995	MS	34-MS-2121-1	Pipe to Pipe	C-F-2	C5.51	UT	0%	IWC-2500-7	Exam limited due to permanently installed structural elements.	Other	Configuration	Physical Restriction- Examination limited due to permanently installed structural elements.	Yes- MEB 3-1
225800	2/2/3	11/02/1995	MS	34-MS-2111-1	Pipe to Pipe	C-F-2	C5.51	MT	50%	IWC-2500-7	Exam limited due to permanently installed pipe whip restraint.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to permanently installed pipe whip restraint.	Yes- MEB 3-1
225800	2/2/3	11/02/1995	MS	34-MS-2111-1	Pipe to Pipe	C-F-2	C5.51	UT	0%	IWC-2500-7	Exam limited due to permanently installed pipe whip restraint.	Other	Configuration	Physical Restriction- Examination limited due to permanently installed pipe whip restraint.	Yes- MEB 3-1
227500	2/2/3	11/04/1995	MS	34-MS-2111-2	Pipe to Valve	C-F-2	C5.51	MT	70%	IWC-2500-7	Exam limited due to permanently installed pipe whip restraint.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to permanently installed structural elements.	Yes- MEB 3-1
227500	2/2/3	11/04/1995	MS	34-MS-2111-2	Pipe to Valve	C-F-2	C5.51	UT	70%	IWC-2500-7	Exam limited due to permanently installed pipe whip restraint.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to permanently installed structural elements.	Yes- MEB 3-1
230500	2/2/3	11/07/1995	MS	32-MS-2121-3	Pipe to Elbow	C-F-2	C5.51	MT	87%	IWC-2500-7	Exam limited due to permanently installed structural elements.	No Recordable Indications	Configuration	Physical Restriction- Examination limited to one side only with no examination performed between 68" - 85" due to structural interferences associated with I-Beams and piping in the area.	Yes- MEB 3-1

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230500	2/2/3	11/07/1995	MS	32-MS-2121-3	Pipe to Elbow	C-F-2	C5.51	UT	83%	IWC-2500-7	Exam limited due to permanently installed structural elements.	No Recordable Indications	Configuration	Physical Restriction- Examination limited to one side only with no examination performed between 68" - 85" due to structural interferences associated with I-Beams and piping in the area.	Yes-MEB 3-1
230600	2/2/3	11/07/1995	MS	32-MS-2121-4	Elbow to Pipe	C-F-2	C5.51	MT	48%	IWC-2500-7	Exam limited due to permanently installed structural elements.	No Recordable Indications	Configuration	Physical Restriction- Examination limited to one side only with no examination performed between 71"-90" due to structural interferences associated with I-Beams and piping in the area.	Yes-MEB 3-1
230600	2/2/3	11/07/1995	MS	32-MS-2121-4	Elbow to Pipe	C-F-2	C5.51	UT	81%	IWC-2500-7	Exam limited due to permanently installed structural elements.	No Recordable Indications	Configuration	Physical Restriction-Exam limited to one side only with no examination performed between 71"-90" due to structural interferences associated with I-Beams and piping in the area.	Yes-MEB 3-1
231800	2/2/3	10/31/1995	MS	32-MS-2111-4	Elbow to Pipe	C-F-2	C5.51	UT	61.20%	IWC-2500-7	Exam limited due to permanently installed pipe whip restraint.	No Recordable Indications	Configuration	Physical Restriction- Examination limited due to restraints on pipe and elbow at the intrados of the elbow, both restraints are close to one another thus precluding exam access.	Yes-MEB 3-1