

FEB 05 2009

LR-N09-0016



U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington DC 20555-001

Salem Nuclear Generating Station Unit 1
Facility Operating License No. DPR-70
NRC Docket No. 50-272

SUBJECT: Inservice Inspection Activities – 90-Day Report

This letter submits the Owner's Activity Report for Inservice Inspection (ISI) activities conducted at the Salem Generating Station Unit No. 1 during the nineteenth refueling outage. This report is submitted in accordance with Code Case N-532-1 "Alternative Requirements to Repair and Replacement Documentation Requirements and Inservice Summary Report Preparation and Submission Section XI, Division 1," and within the ninety (90) day reporting requirement.

Enclosure 1 to this letter contains the required Salem Unit 1 Owner's Activity Report.

Should you have any questions regarding this submittal, please contact E. H. Villar at (856) 339-5456.

Sincerely,

A handwritten signature in black ink, appearing to be "R. Braun", written over a horizontal line.

Robert Braun
Site Vice President - Salem

Enclosures (1)

A047
NRR

FEB 05 2009

Nuclear Regulatory Commission
Page 2
LR-N09-0016

C Mr. S. Collins, Administrator - Region I
U. S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Mr. R. Ennis, Project Manager - Salem
U.S. Nuclear Regulatory Commission
Mail Stop 08B1
Washington, DC 20555-0001

USNRC Senior Resident Inspector - Salem (X24)

Mr. P. Mulligan, Manager IV
Bureau of Nuclear Engineering
P. O. Box 415
Trenton, NJ 08625

Mr. Milton Washington
Chief Inspector
NJ Department of Labor
Division of Public Safety, Occupational Safety and Health
Bureau of Boiler and Pressure Vessel Compliance
P. O. Box 396
101 South Broad Street
Trenton, NJ 08625-0392

Nuclear Regulatory Commission
Enclosure 1
LR-N09-0016

Salem Unit 1
Owner's Activity Report – S1R19
In Accordance With ASME
Section XI Code Case N-532-1

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number S1RFO19

Owner PSEG Nuclear LLC, PO Box 236, Hancocks Bridge, NJ 08038

Plant Salem Generating Station

Unit No. 1 Commercial Service Date July 1, 1977 Refueling Outage No. 19

Current Inspection Interval Third (3rd) {IWE/IWL (1st)}

Current Inspection Period Third (3rd) {IWE/IWL (3rd)}

Edition and Addenda of Section XI Applicable to the inspection plan 1998 Edition 2000 Addenda;
IWE and IWL - 1998 Edition, 1998 Addenda;

Appendix VIII examinations – 1995 Edition 1996 Addenda as amended by Final Rule

Date and revision of inspection plan 11/2003, Revision 1

Edition & Addenda of Section XI Applicable to repairs and replacements, if different than the inspection plan
ASME Class 1, 2 and 3 – 1998 Edition, 2000 Addenda; Class MC/CC – 1992 Edition, 1992 Addenda
(Unless specifically identified in the individual repair plan)

CERTIFICATE OF CONFORMANCE

I certify that the statements made in this Owner's Activity Report are correct, and that the examinations, tests, repairs, replacements, evaluations, and corrective measures represented by this report conform to the requirements of Section XI.

Certification of Authorization No. N/A Expiration Date N/A

Signed Edley T. Giles, ISI Program Manager Date 01/15/2009
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New Jersey and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the items described in this Owner's Activity Report, during the period April 20, 2007 to November 14, 2008, and state that to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, repairs, replacements, evaluations and corrective measures described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Matthew A. Wolanski
Inspector's Signature

Commissions NB12683A NJ1198
National Board, State, Province, and Endorsements

Date 1/15/09

TABLE 1 – ABSTRACT OF EXAMINATIONS AND TESTS

Exam Category	Total Examinations Required for the 3 rd Interval	Total Examinations Credited for the 3 rd Period	Total Examinations Credited (%) for the 3 rd Period	Total Examinations Credited (%) To Date for the 3 rd Interval	Remarks
B-A	21	0	0	5	3 rd Interval, 3 rd Period; See Note 1
B-B	5	0	0	60	3 rd Interval, 3 rd Period; See Note 5
B-D	30	0	0	37	3 rd Interval, 3 rd Period; See Note 2
B-G-1	12	4	33	58	3 rd Interval, 3 rd Period; See Note 1
B-G-2	84	23	27	90	3 rd Interval, 3 rd Period
B-K	13	2	15	92	3 rd Interval, 3 rd Period
B-L-1	1	0	0	100	3 rd Interval, 3 rd Period; See Note 1
B-L-2	1	0	0	0	3 rd Interval, 3 rd Period; See Note 3
B-M-1	1	1	100	100	3 rd Interval, 3 rd Period; See Note 1
B-M-2	8	0	0	50	3 rd Interval, 3 rd Period; See Note 3
B-N-1	5	0	0	40	3 rd Interval, 3 rd Period
B-N-2	1	0	0	0	3 rd Interval, 3 rd Period; See Note 1
B-N-3	14	0	0	0	3 rd Interval, 3 rd Period; See Note 1
B-O	1	0	0	0	3 rd Interval, 3 rd Period; See Note 1
B-P	12	2	17	83	3 rd Interval, 3 rd Period
C-A	21	4	19	76	3 rd Interval, 3 rd Period
C-B	8	0	0	63	3 rd Interval, 3 rd Period; See Note 6
C-C	32	7	22	90	3 rd Interval, 3 rd Period
C-D	2	0	0	50	3 rd Interval, 3 rd Period; See Note 7
C-G	3	0	0	67	3 rd Interval, 3 rd Period; See Note 8
C-H	155	39	25	55	3 rd Interval, 3 rd Period
D-A	32	0	0	72	3 rd Interval, 3 rd Period
D-B	162	34	21	88	3 rd Interval, 3 rd Period
F-A	358	8	2	73	3 rd Interval, 3 rd Period
R-A	166	33	20	80	3 rd Interval, 3 rd Period; See Note 4
IWE/IWL	1 st Interval	3 rd Period	3 rd Period	1 st Interval	
E-A	474	158	33	99	1 st Interval, 3 rd Period; See Note 9
L-A	558	0	0	67	1 st Interval, 3 rd Period;

Notes:

- 1) Deferral permissible for: B-A, B-E, B-G-1, B-L-1, B-M-1, B-N-2, B-N-3, B-O
- 2) Reference Table IWB-2500-1, Exam Category B-D, Program (B) Notes 2 and 5
- 3) To be examined only if disassembled for maintenance, repair or volumetric exam. Reference Table IWB-2500-1, Exam Category B-L-2, B-M-2, Note 2
- 4) Risk Informed was implemented in the second interval, third period, replacing ASME categories B-F, B-J, C-F-1, and C-F-2.
- 5) Reference Table IWB-2500-1, Exam Category B-B, Note 1
- 6) Reference Table IWC-2500-1, Exam Category C-B, Note 4
- 7) Reference Table IWC-2500-1, Exam Category C-D, Note 2
- 8) Reference Table IWC-2500-1, Exam Category C-G, Note 1
- 9) Inaccessible components will be examined when they become accessible.

TABLE 2 – ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE

Exam Category	Item Number	Item Description	Flaw Characterization (IWA-3300)	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)
C-A	C1.20	CHEMICAL AND VOLUME CONTROL TANK SHELL TO LOWER HEAD WELD	Two subsurface axial linear indications in head to lower shell weld	Yes Sum# 204800 – Head to Lower Shell Weld. Scheduled Section XI Exam, Original Exam during 1R13 no flaw growth noted. Engineering Evaluation (Fracture Mechanics Analysis) – Use As Is.
R-A	R1.15-2	14 RPV HOT LEG NOZZLE TO SAFE-END (29-RC-1140-1)	ID connected circumferential indication 2.06” long (1.9%) and 24.3% Through Wall Depth in RV Nozzle Safe End Weld	Yes Sum# 047301 – RPV 14 Hot Leg Nozzle to Safe End Alloy 600 Weld. Indication evaluated using Flaw Evaluation Handbook and found acceptable for service for 36 months. Weld Mitigated using MSIP.

TABLE 3 – ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES REQUIRED FOR CONTINUED SERVICE

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)	Date Completed	Repair/ Replacement Plan Number
2	Replacement	3/4" Elbow leak in line to 12CS46	Replaced leaking elbow in vent line to valve 12CS46	Yes	11/3/2008	60079160
2	Replacement	3/4" weld leak D/S of 1CV299	Replace tubing by Welding	NO	10/2/2008	60078450
3	Replacement	3/8" tubing leak D/S of 1SW366	Replace tubing by Welding	NO	5/16/2007	60069462
3	Replacement	2" Valve body leak in 11SW241	Replace S1SW -11SW241	NO	12/18/2008	60078980
3	Replacement	3/8" tubing weld leak D/S of 12CC197	Replace tubing by Welding	NO	9/27/2007	60067703
3	Replacement	3/8" tubing leak D/S of 11SW97	Replace tubing by Welding	NO	5/29/2007	60069652
3	Replacement	3/8" tubing leak D/S of 11SW55	Replace tubing by Welding	NO	7/13/2007	60070719
3	Replacement	3/8" tubing leak D/S of 12SW97	Replace tubing by Welding	NO	8/9/2007	60070974
3	Replacement	3/8" tubing leak D/S of 12SW74	Replace tubing by Welding	NO	8/17/2007	60071025
3	Replacement	3/8" tubing leak at 1PL4285 between valves 13SW243 and 13SW405	Replace tubing by Welding	NO	8/24/2007	60071201
3	Replacement	3/8" tubing leak at 1PL4284	Replace tubing by Welding	NO	9/21/2007	60071356
3	Replacement	3/8" tubing weld leak U/S of 1SW656	Replace tubing by Welding	NO	10/25/2007	60072363