

PSEG Nuclear LLC
P.O. Box 236, Hancocks Bridge, NJ 08038-0236



NOV 20 2013
LR-N13-0257

10 CFR 50.55a

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Salem Generating Station Unit 2
Renewed Facility Operating License No. DPR-75
NRC Docket No. 50-311

Subject: Snubber Program Plan for Salem Unit 2, Fourth Ten-Year Interval

In accordance with American Society of Mechanical Engineers Code for Operation and Maintenance of Nuclear Power Plants (ASME OMB Code), Subparagraph ISTA-3200(a), enclosed for your information is the Snubber Program Plan for the Salem Unit 2 Fourth Ten-Year Inservice Inspection (ISI) Interval. The Fourth 10-year ISI interval for Salem Unit 2 is effective from November 27, 2013, through November 27, 2023.

There are no regulatory commitments contained within this letter. Should you have any questions concerning this matter, please contact Mr. Brian Thomas at 856-339-2022.

Sincerely,

A handwritten signature in cursive script that reads "Paul R. Duke, Jr.".

Paul R. Duke, Jr.
Manager - Licensing

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Fourth ISI Ten-Year Inspection Interval

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cc: W. Dean, Administrator, Region I, NRC
NRC Senior Resident Inspector, Salem
J. Hughey, Project Manager, Salem, USNRC
P. Mulligan, Manager IV, NJBNE
L. Marabella, Corporate Commitment Tracking Coordinator
T. Cachaza, Salem Commitment Tracking Coordinator

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Enclosure

Salem Nuclear Generating Station Unit 2

Snubber Program Plan

Rev. 0

Fourth ISI Ten-Year Inspection Interval

SALEM NUCLEAR GENERATING STATION UNIT 2

SNUBBER PROGRAM PLAN

REV. 0

FOURTH ISI TEN-YEAR INSPECTION INTERVAL

NOVEMBER 27, 2013 TO NOVEMBER 27, 2023

Commercial Service Date: October 13, 1981

PSEG Nuclear (PSEG), LLC

P.O. Box 236

Hancocks Bridge, NJ 08038

PREPARED:

 10/30/2013

Tim Giles
Snubber Program Owner

REVIEWED:

 10/30/2013

Bill Brammeier
Peer Reviewer

APPROVED:

 11/1/13

Mike Ambrosino
Salem Engineering Programs Manager

Snubber Program Plan

Salem Unit 2 Generating Station, Fourth ISI Interval

REVISION CONTROL SHEET

Major changes to this document should be outlined within the table below.
Editorial and formatting revisions are not required to be logged.

Revision	Date	Revision Summary
0	10/07/13	Initial issuance.

Notes:

1. This Snubber Program Plan is controlled by the Salem Nuclear Generating Station Engineering Programs Department.
2. Revision 0 of this document was submitted to the NRC. Future revisions of this document made within the Fourth ISI Interval will be maintained and controlled at the station; however, they are not required to be and will not be submitted to the NRC. The exception to this is that new or revised Relief Requests shall be submitted to the NRC for safety evaluation and approval.

Snubber Program Plan

Salem Unit 2 Generating Station, Fourth ISI Interval

1.0 General

- 1.1. Salem Unit 2, as permitted by 10 CFR 50.55a(b)(3)(v), PSEG has submitted License Amendment Request (LAR) S10-04 to remove the Snubber inspection and test requirements from Technical Specification and to adopt Subsection ISTD, "Pre-service and Inservice Examination and Testing of Dynamic Restraints (Snubbers) in Light-Water Reactor Nuclear Power Plants," of the ASME OM Code, 2004 Edition, in place of the requirements for Snubbers in Section XI, Articles IWF-5200(a) and (b) and IWF-5300(a) and (b) and added 6.8.4m "Snubber Testing Program" to Technical Specification Administrative Controls Pre-service and Inservice examinations must be performed using the VT-3 visual examination method described in IWA-2213.
- 1.2. NRC Safety Evaluation Report, dated August 25, 2011 (ML112020359) Amendment No. 284 to Renewed License No. DPR-75, approved the adoption of ISTD for the Snubber Program.
- 1.3. The inspection and testing of all safety related Snubbers shall be implemented and performed in accordance with PSEG Nuclear Procedure SH.RA-ST.ZZ-0105(Q), "Snubber Examination & Testing ", to ensure the required operability of these Snubbers during a seismic or other design basis event that initiates dynamic loads.
- 1.4. The Snubber program, as defined within SH.RA-ST.ZZ-0105(Q), establishes visual examination, functional testing and service life monitoring requirements, pertaining to hydraulic safety related Snubbers.
- 1.5. The examination boundaries shall include the Snubber assembly from pin to pin inclusive. Coordination with the ISI program owner will be required to complete the surveillance requirements for piping and structural attachments.
- 1.6. The Snubber Program described in SH.RA-ST.ZZ-0105(Q) adheres to the requirements of ASME OM Code, Subsection ISTA and ISTD 2004 Edition with 2006 Addenda including 10CFR5.55a (b)(3)(v) requirements which states;

Subsection ISTD. Article IWF-5000, "Inservice Inspection Requirements for Snubbers," of the ASME B& PV Code, Section XI, must be used when performing inservice inspection

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examinations and tests of snubbers at nuclear power plants, except as conditioned in paragraphs (b)(3)(v)(A) and (b)(3)(v)(B) of this section.

(b)(3)(v)(A) Licensees may use Subsection ISTD, "Preservice and Inservice Examination and Testing of Dynamic Restraints (Snubbers) in Light-Water Reactor Power Plants," ASME OM Code, 1995 Edition through the latest edition and addenda incorporated by reference in paragraph (b)(2) of this section, in place of the requirements for snubbers in the editions and addenda up to the 2005 Addenda of the ASME B&PV Code, Section XI, IWF-5200(a) and (b) and IWF-5300(a) and (b), by making appropriate changes to their technical specifications or licensee-controlled documents. Preservice and inservice examinations must be performed using the VT-3 visual examination method described in IWA-2213.

(b)(3)(v)(B) Licensees shall comply with the provisions for examining and testing snubbers in Subsection ISTD of the ASME OM Code and make appropriate changes to their technical specifications or licensee-controlled documents when using the 2006 Addenda and later editions and addenda of Section XI of the ASME B&PV Code.

- 1.7. Salem Generating Station Procedure ER-AA-330-004, in conjunction with SH.RA-ST.ZZ-0105(Q) establishes a Snubber Visual Examination program for Hydraulic Snubbers which adheres to the requirements of ISTD-4200.
- 1.8. Salem Generating Station Procedure ER-AA-330-010, in conjunction with SH.RA-ST.ZZ-0105(Q) establishes a Snubber Functional Testing program for Hydraulic Snubbers which adheres to the requirements of ISTD-5000.
- 1.9. Salem Generating Station Procedure ER-AA-330-011, in conjunction with SH.RA-ST.ZZ-0105(Q) establishes a Snubber Service Life Monitoring program for Hydraulic Snubbers which adheres to the requirements of ISTD-6000.

2.0 Examination, Testing and Monitoring Requirements

- 2.1. Visual Examinations and Functional Testing shall be performed to the extent specified within SH.RA-ST.ZZ-0105(Q).

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2.2. Snubbers are grouped into defined test plan groups (DTPG) by design type, in accordance with ISTD-5252 for testing purposes. Salem Unit 2 only has one group and is based on entire population of Lisega Hydraulic Snubbers.

2.3. The service life of all Snubbers shall be monitored and Snubbers replaced or reconditioned as required to ensure that the service life is not exceeded between surveillance inspections, during a period when the Snubber is required to be operable.

3.0 Examination and Testing Methods

3.1. Visual Examinations shall be performed by individuals qualified in accordance with PSEG Nuclear Procedures using the examination attributes as described in ASME Section XI, IWA-2213. Visual Examinations and Functional Testing shall be performed to meet the requirements specified within SH.RA-ST.ZZ-0105(Q) in accordance with ISTD.

4.0 Examination and Testing Frequency

4.1. Visual examinations and functional testing shall be performed at the frequency specified within SH.RA-ST.ZZ-0105(Q), which requires accessible and inaccessible Snubber visual examinations during alternating refueling outages, which results in approximately one half of the Snubber population being examined during each refueling outage.

4.2. Baseline visual examinations shall be performed whenever new Snubbers are installed, reinstallation of existing or swapped Snubbers that were functionally tested, or after repairs, replacements or modifications.

4.3. Functional testing requirements for new installations or spares shall be equal to or more stringent than that specified within SH.RA-ST.ZZ-0105(Q).

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Salem Unit 2 Generating Station, Fourth ISI Interval

- 4.4. Salem Unit 2 will use the 10% sampling plan as described in ISTD-5310 to functionally test Snubbers during every refueling outage.
- 5.0 **ASME OM Code Case**
- 5.1. Salem Unit 2 Snubber Program has not invoked any OM Code Cases.
- 6.0 **Examination, Testing and Monitoring Evaluation**
- 6.1. Snubbers that do not appear to conform to the Visual Examination requirements of SH.RA-ST.ZZ-0105(Q), shall be reported for evaluation and appropriate corrective action.
- 6.2. Snubbers that do not appear to conform with the visual examination acceptance requirements and are later confirmed as operable as a result of functional testing may be used to accept the Snubber for the purpose of establishing the next visual inspection interval, providing the unacceptable condition did not affect operational readiness.
- 6.3. Snubbers that do not meet the operability testing acceptance criteria in SH.RA-ST.ZZ-0105(Q) shall be evaluated to determine the cause of the failure and appropriate corrective action taken.
- 6.4. The service life of a Snubber is evaluated using manufacturing input and engineering information gained through consideration of the Snubber service conditions and in-service functional test results. Service life monitoring is included in SH.RA-ST.ZZ-0105(Q) and Procedure ER-AA-330-011.
- 7.0 **Repair, Replacement and Modification Requirements**
- 7.1. Repairs, Replacements and Modifications performed on Snubbers under this program shall conform, as applicable, to the requirements specified within PSEG Nuclear Repair Program.

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8.0 Scheduling

- 8.1. The Visual Examinations and Functional Testing schedules shall be established, tracked and maintained by Engineering Programs.
- 8.2. The Snubber database software shall identify and track expanded or additional testing and/or examinations as specified and required by SH.RA-ST.ZZ-0105(Q).

9.0 Reports and Records

- 9.1. Reports and records generated during implementation of the Snubber program shall maintained in accordance with RM-AA-101, Records Management Program.