



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

June 1, 2018

Mr. Peter P. Sena, III  
President and Chief Nuclear Officer  
PSEG Nuclear LLC - N09  
P.O. Box 236  
Hancocks Bridge, NJ 08038

SUBJECT: SALEM NUCLEAR GENERATING STATION, UNIT NO. 2 - REVIEW OF STEAM  
GENERATOR TUBE INSPECTION REPORT FOR THE SPRING 2017  
REFUELING OUTAGE 22 (EPID L-2018-LRO-0062)

Dear Mr. Braun:

By letter dated November 21, 2017 (Agencywide Document Access and Management System Accession No. ML17325B055) PSEG Nuclear LLC (the licensee) submitted information summarizing the results of the spring 2017 steam generator inspections at Salem Nuclear Generating Station (Salem), Unit No. 2. These inspections were performed during the twenty-second refueling outage. This information was submitted in accordance with Salem, Unit No. 2, Technical Specification (TS) 6.9.1.10, "Steam Generator Tube Inspection Report."

The U.S. Nuclear Regulatory Commission (NRC) staff has completed its review of your submittals, as documented in the enclosed evaluation. The NRC staff concludes that the licensee has provided the information required by the TSs and that no additional followup is required at this time.

If you have any questions, please contact me at 301-415-4125 or [James.Kim@nrc.gov](mailto:James.Kim@nrc.gov).

Sincerely,

A handwritten signature in black ink that reads "James Kim".

James Kim, Project Manager  
Plant Licensing Branch I  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-311

Enclosure:  
Review of Report

cc: Listserv

OFFICE OF NUCLEAR REACTOR REGULATION  
REVIEW OF THE SPRING 2017 STEAM GENERATOR TUBE INSPECTION REPORT  
PERFORMED DURING REFUELING OUTAGE TWENTY  
PSEG NUCLEAR LLC  
SALEM NUCLEAR GENERATING STATION, UNIT NO. 2  
DOCKET NO. 50-311

By letter dated November 21, 2017 (Agencywide Document Access and Management System Accession No. ML17325B055), PSEG Nuclear LLC (the licensee) submitted information summarizing the results of the spring 2017 steam generator (SG) inspections at Salem Nuclear Generating Station (Salem), Unit No. 2. These inspections were performed during the twenty-second refueling outage.

Salem, Unit No. 2, has four AREVA Model 61/19T replacement SGs, which were installed in May 2008. Each SG contains 5,048 U-bend thermally treated Alloy 690 tubes. Each tube has a nominal outside diameter of 0.750 inches and a nominal wall thickness of 0.043 inches. During SG fabrication, the tubes were hydraulically expanded at both ends, over the full depth of the tubesheet. The tubesheet was drilled on a triangular pitch. The U-bends in rows 1 through 16 were stress relieved after bending. Eight stainless steel (Type 410) support plates, which have broached trefoil holes, provide lateral tube support to the vertical section of the tubes and three sets of stainless steel (Type 405M) anti-vibration bars support the U-bend section of the tubes.

The licensee provided the scope, extent, methods, and results of the SG tube inspections in the letter referenced above. In addition, the licensee described corrective actions (e.g., tube plugging) taken in response to the inspection findings.

Based on a review of the information provided, the NRC staff concludes that the licensee provided the information required by their technical specifications. In addition, the NRC staff concludes that there are no technical issues that warrant follow-up action at this time, since the inspections appear to be consistent with the objective of detecting potential tube degradation and the inspection results appear to be consistent with industry operating experience at similarly designed and operated units.

Principal Contributor: Andrew Johnson

Date: June 1, 2018

Enclosure

SUBJECT: SALEM NUCLEAR GENERATING STATION, UNIT NO. 2 - REVIEW OF STEAM GENERATOR TUBE INSPECTION REPORT FOR THE SPRING 2017 REFUELING OUTAGE 22 (EPID L-2018-LRO-0062) DATED JUNE 1, 2018

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**ADAMS Accession No.: ML18144A911**

\*by memo

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