



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

March 24, 2015

Mr. Thomas Joyce  
President and Chief Nuclear Officer  
PSEG Nuclear  
P.O. Box 236, N09  
Hancocks Bridge, NJ 08038

SUBJECT: SALEM NUCLEAR GENERATING STATION, UNIT NO. 2 - REQUEST FOR  
ADDITIONAL INFORMATION RE: SPRING 2014 STEAM GENERATOR TUBE  
INSPECTIONS (TAC NO. MF5117)

Dear Mr. Joyce:

By letter dated October 30, 2014 (Agencywide Documents Access and Management System Accession No. ML14303A032), PSEG Nuclear LLC (the licensee) submitted information summarizing the results of the spring 2014 steam generator tube inspections performed at Salem Nuclear Generating Station, Unit No. 2. These inspections were performed during refueling outage 20.

The NRC staff has determined that additional information is needed to complete its review of the submittal. The specific questions are found in the enclosed request for additional information. The draft questions were sent via electronic transmission on March 16, 2015, to Mr. Paul Duke of your staff. The draft questions were sent to ensure the questions were understandable, the regulatory basis was clear, and to determine if the information was previously docketed. On March 24, 2015, Mr. Duke indicated that the licensee will submit a response within 60 days of this letter.

If you have any questions, please contact me at 301-415-1603 or via e-mail at [Carleen.SandersParker@nrc.gov](mailto:Carleen.SandersParker@nrc.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Carleen J. Parker".

Carleen J. Parker, Project Manager  
Plant Licensing Branch I-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-272 and 50-311

Enclosure:  
Request for Additional Information

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION  
OFFICE OF NUCLEAR REACTOR REGULATION  
SPRING 2014 STEAM GENERATOR INSPECTIONS  
SALEM NUCLEAR GENERATING STATION, UNIT NO. 2  
PSEG NUCLEAR LLC  
EXELON GENERATION COMPANY, LLC  
DOCKET NO. 50-311

By letter dated October 30, 2014 (Agencywide Documents Access and Management System Accession No. ML14303A032), PSEG Nuclear LLC (PSEG or the licensee) submitted information summarizing the results of the spring 2014 steam generator tube inspections performed at Salem Nuclear Generating Station, Unit No. 2. These inspections were performed during refueling outage 20 (RFO 20). To complete its review, the NRC staff requests a response to the questions below.

1. Please provide the cumulative effective full power months of operation that the steam generators (SGs) have operated as of RFO 20.
2. Please discuss the scope and results of any secondary side inspections.
3. Please summarize the number of indications and tubes with wear at the anti-vibration bars. Please summarize the number of indications and tubes with wear at the tube support plates (TSPs). Please discuss whether the number of new wear indications and wear growth rates have continued to decrease from RFO 19 to RFO 20, for both anti-vibration bar and TSP wear.
4. Please clarify whether the tube in row 104, column 66 in SG 24 has two wear indications at 06C (one at 06C-0.58-inches and one at 06C+0.40-inches). Please discuss whether these indications are associated with TSP lands.
5. Please discuss the scope and results of any primary channel head inspections.
6. Please identify the tubes plugged during RFO 20.
7. Previously, the tube located in row 1, column 63 in three of the four SGs had wear at various TSP intersections. Please discuss any insights into the cause of wear given the limited number of indications of TSP wear and the general random nature of this form of degradation.

Enclosure

8. Please discuss whether the two inaccessible nuts on secondary components (hatches, camera ports), where other nuts were found to be loose in prior inspections, were able to be accessed to ensure tightness.

Mr. Thomas Joyce  
President and Chief Nuclear Officer  
PSEG Nuclear  
P.O. Box 236, N09  
Hancocks Bridge, NJ 08038

SUBJECT: SALEM NUCLEAR GENERATING STATION, UNIT NO. 2 - REQUEST FOR  
ADDITIONAL INFORMATION RE: SPRING 2014 STEAM GENERATOR TUBE  
INSPECTIONS (TAC NO. MF5117)

Dear Mr. Joyce:

By letter dated October 30, 2014 (Agencywide Documents Access and Management System Accession No. ML14303A032), PSEG Nuclear LLC (the licensee) submitted information summarizing the results of the spring 2014 steam generator tube inspections performed at Salem Nuclear Generating Station, Unit No. 2. These inspections were performed during refueling outage 20.

The NRC staff has determined that additional information is needed to complete its review of the submittal. The specific questions are found in the enclosed request for additional information. The draft questions were sent via electronic transmission on March 16, 2015, to Mr. Paul Duke of your staff. The draft questions were sent to ensure the questions were understandable, the regulatory basis was clear, and to determine if the information was previously docketed. On March 24, 2015, Mr. Duke indicated that the licensee will submit a response within 60 days of this letter.

If you have any questions, please contact me at 301-415-1603 or via e-mail at [Carleen.SandersParker@nrc.gov](mailto:Carleen.SandersParker@nrc.gov).

Sincerely,  
*/RA/*  
Carleen J. Parker, Project Manager  
Plant Licensing Branch I-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-272 and 50-311

Enclosure:  
Request for Additional Information

cc w/encl: Distribution via Listserv

**DISTRIBUTION:**

PUBLIC  
RidsAcrcsAcnw\_MailCTR Resource  
RidsNrrDorlDpr Resource  
RidsNrrDeEsgb Resource  
RidsNrrLAABaxter Resource  
A.Huynh, ESGB

LPLI-2 R/F  
RidsPMSalem Resource  
RidsNrrDorlLpl1-2 Resource  
RidsRgn1MailCenter Resource  
A.Johnson, ESGB

**ADAMS Accession No. ML15075A260**

**\*By Memo Dated**

OFFICE	LPL1-2/PM	LPL1-2/LA	DE/ESGB/BC	LPL1-2/BC	LPL1-2/PM
NAME	CParker	ABaxter	GKulesa*	DBroaddus (JLamb for)	CParker
DATE	03/24/2015	03/18/2015	03/04/2015	03/24/2015	03/24/2015

Official Record Copy