



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

February 3, 2011

Vice President, Operations
Entergy Nuclear Operations, Inc.
Indian Point Energy Center
450 Broadway, GSB
P.O. Box 249
Buchanan, NY 10511-0249

SUBJECT: INDIAN POINT NUCLEAR GENERATING UNIT NO. 2 - REQUEST FOR
ADDITIONAL INFORMATION REGARDING THE STEAM GENERATOR TUBE
INSERVICE INSPECTION REPORT FOR REFUELING OUTAGE 19
(TAC NO. ME4614)

Dear Sir or Madam:

By letter dated August 24, 2010 (Agencywide Documents Access and Management System Accession No. ML102440036), Entergy Nuclear Operations, Inc. (Entergy) submitted information summarizing the results of the 2010 steam generator tube inspections at Indian Point Unit 2. These steam generator tube inspections were performed during refueling outage 19.

The Nuclear Regulatory Commission staff is reviewing the submittal and has determined that additional information is needed to complete its review. The specific questions are found in the enclosed request for additional information (RAI). On February 1, 2011, the Entergy staff indicated that a response to the RAI would be provided within 60 days of the date of this letter.

Please contact me at (301) 415-2901 if you have any questions on this issue.

Sincerely,

A handwritten signature in cursive script that reads "John P. Boska".

John P. Boska, Senior Project Manager
Plant Licensing Branch I-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-247

Enclosure:
As stated

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION
REGARDING STEAM GENERATOR TUBE INSERVICE INSPECTION REPORTS
FOR THE 2010 REFUELING OUTAGE
ENTERGY NUCLEAR OPERATIONS, INC.
INDIAN POINT NUCLEAR GENERATING UNIT NO. 2
DOCKET NO. 50-247

In a letter dated August 24, 2010 (Agencywide Documents Access and Management System Accession No. ML102440036), Entergy Nuclear Operations, Inc. (Entergy) submitted information summarizing the results of the 2010 steam generator tube inspections at Indian Point Unit 2. These steam generator tube inspections were performed during refueling outage (RFO) 19. The Nuclear Regulatory Commission staff is reviewing the submittal and has the following questions:

1. Please discuss the scope and results of any secondary side inspections, including visual inspection for loose parts, foreign object search and retrieval inspections, and any upper bundle inspections (including feeding inspections). Also, please clarify which steam generators (SGs) had secondary side inspections during RFO 15.
2. Please discuss the scope and results of any tube plug inspections.
3. In Section 5 of the RFO 19 SG tube inspection report, the text indicates that 207 indications of tube wear were found at the anti-vibration bars of 127 tubes, while the table in Section 5 indicates there were only 102 tubes with wear. A manual count of the tubes and indications provided in Section 10 indicated that 207 indications of tube wear in 103 tubes. Please clarify.
4. Please discuss whether any rotating/array probe inspections of the tube ends were performed. If not, why not? In addition, please clarify the following statement from page 3 of the report, "DNTs [Dents] within the tubesheet are not required for inspection based upon PWSCC [primary water stress-corrosion cracking] at the BLG/OXP [Bulges/Over-expansions] is not listed as potential for this inspection."
5. Please discuss whether any primary-to-secondary leakage was observed in the cycles since the last tube inspections. If so, please discuss the source.
6. Please discuss how many high row tubes (non-stress relieved after bending) have potentially higher residual stresses based on eddy current data (i.e., 2-sigma tubes). If any are present, discuss the extent to which these tubes were preferentially selected for rotating probe inspections at locations such as the expansion transition and dents/dings.

Enclosure

February 3, 2011

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Buchanan, NY 10511-0249

**SUBJECT: INDIAN POINT NUCLEAR GENERATING UNIT NO. 2 - REQUEST FOR
ADDITIONAL INFORMATION REGARDING THE STEAM GENERATOR TUBE
INSERVICE INSPECTION REPORT FOR REFUELING OUTAGE 19
(TAC NO. ME4614)**

Dear Sir or Madam:

By letter dated August 24, 2010 (Agencywide Documents Access and Management System Accession No. ML102440036), Entergy Nuclear Operations, Inc. (Entergy) submitted information summarizing the results of the 2010 steam generator tube inspections at Indian Point Unit 2. These steam generator tube inspections were performed during refueling outage 19.

The Nuclear Regulatory Commission staff is reviewing the submittal and has determined that additional information is needed to complete its review. The specific questions are found in the enclosed request for additional information (RAI). On February 1, 2011, the Entergy staff indicated that a response to the RAI would be provided within 60 days of the date of this letter.

Please contact me at (301) 415-2901 if you have any questions on this issue.

Sincerely,

/ra/

John P. Boska, Senior Project Manager
Plant Licensing Branch I-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-247

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ADAMS ACCESSION NO.: ML110320146

*See memo dated 1/19/11

OFFICE	LPL1-1/PM	LPL1-1/LA	NRR/DCI/CSGB/BC*	LPL1-1/BC
NAME	JBoska	SLittle	RTaylor	NSalgado
DATE	2/3/11	2/3/11	1/19/11	2/3/11

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