



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

May 7, 2012

Mr. Paul Freeman
Site Vice President
c/o Michael O' Keefe
Seabrook Station
NextEra Energy Seabrook, LLC
P.O. Box 300
Seabrook, NH 03874

SUBJECT: SEABROOK STATION, UNIT NO. 1 - REVIEW OF STEAM GENERATOR TUBE
INSPECTION REPORT FOR SPRING 2011 (TAC NO. ME7206)

Dear Mr. Freeman:

By letter dated September 19, 2011 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML11266A008), as supplemented March 6, 2012 (ADAMS Accession No. ML12072A065), NextEra Energy Seabrook, LLC (NextEra) submitted information summarizing the steam generator tube inspections performed at Seabrook Station, Unit No. 1 (Seabrook) during the spring 2011 refueling outage.

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 NextEra has provided the information required by the Technical Specifications and that no additional follow-up is required at this time. This completes the NRC staff efforts for TAC No. ME7206.

If you have any questions regarding this matter, I may be reached at 301-415-3100.

Sincerely,

A handwritten signature in black ink, appearing to read "John G. Lamb".

John G. Lamb, Senior Project Manager
Plant Licensing Branch I-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-443

Enclosure:
As stated

cc w/encl: Distribution via Listserv



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

EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

STEAM GENERATOR TUBE INSPECTION REPORT FOR SPRING 2011

SEABROOK STATION, UNIT NO. 1

DOCKET NO. 50-443

1.0 INTRODUCTION

By letter dated September 19, 2011 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML11266A008), as supplemented March 6, 2012 (ADAMS Accession No. ML12072A065), NextEra Energy Seabrook, LLC (NextEra) submitted information summarizing the steam generator (SG) tube inspections performed at Seabrook Station, Unit No. 1 (Seabrook) during the spring 2011 refueling outage (RFO 14).

2.0 BACKGROUND

Seabrook has four Westinghouse Model F SGs, each of which contains 5,626 thermally treated Alloy 600 tubes. Each tube has a nominal outside diameter of 0.688 inches and a nominal wall thickness of 0.040 inches. During SG fabrication, the tubes were hydraulically expanded, at both ends, over the full depth of the tubesheet. Type 405 stainless steel support plates, which have broached quatrefoil holes, support the vertical section of the tubes, and anti-vibration bars support the U-bend section of the tubes.

3.0 EVALUATION

NextEra provided the scope, extent, methods, and results of their SG tube inspections in the documents referenced above. NextEra also described corrective actions in the form of tube plugging and tube stabilization taken in response to the inspection findings.

Based on the U.S. Nuclear Regulatory Commission (NRC) staff's review of the information submitted by the licensee, the staff has the following observations/comments:

- The inspections were limited to the top of the tubesheet area, as a result of finding one axially oriented outside diameter stress corrosion cracking indication during the previous outage (i.e., 2009) inspection.
- There were no indications of cracking found during RFO 14.

Enclosure

4.0 CONCLUSION

Based on a review of the information provided, the NRC staff concludes that NextEra 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: May 7, 2012

May 7, 2012

Mr. Paul Freeman
Site Vice President
c/o Michael O'Keefe
Seabrook Station
FPL Energy Seabrook, LLC
PO Box 300
Seabrook, NH 03874

SUBJECT: SEABROOK STATION, UNIT NO. 1 - REVIEW OF STEAM GENERATOR TUBE
INSPECTION REPORT FOR SPRING 2011 - (TAC NO. ME7206)

Dear Mr. Freeman:

By letter dated September 19, 2011 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML11266A008), as supplemented March 6, 2012 (ADAMS Accession No. ML12072A065), NextEra Energy Seabrook, LLC (NextEra) submitted information summarizing the steam generator tube inspections performed at Seabrook Station, Unit No. 1 (Seabrook) during the spring 2011 refueling outage.

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 NextEra has provided the information required by the Technical Specifications and that no additional follow-up is required at this time. This completes the NRC staff efforts for TAC No. ME7206.

If you have any questions regarding this matter, I may be reached at 301-415-3100.

Sincerely,

/ra/

John G. Lamb, Senior Project Manager
Plant Licensing Branch I-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-443

Enclosure:
As stated

cc w/encl: Distribution via Listserv

DISTRIBUTION:

PUBLIC	RidsAcrsAcnw_MailCenter
LPL1-2 Reading	RidsRgn1MailCenter
RidsNrrDorLpl1-2	RidsNrrDciCsgb
RidsNrrLAABaxter	KKarwoski, DE/ESGB
RidsNrrPMSeabrook	AJohnson, DE/ESGB
RidsOgcRp	

ADAMS Accession No.: ML113640127 *via memorandum **via email

OFFICE	LPL1-2/PM	LPL 1-2/LA	ESGB/BC	LPL1-2/BC
NAME	JLamb	ABaxter **	GKulesa*	MKhanna
DATE	03/07/12	05/04/12	05/04/12	05/07/12

OFFICIAL RECORD COPY