



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

June 5, 2015

Mr. Dean Curtland, Site Vice President  
c/o Michael Ossing  
Seabrook Station  
NextEra Energy Seabrook, LLC  
P.O. Box 300  
Seabrook, NH 03874

SUBJECT: SEABROOK STATION, UNIT 1 – REVIEW OF THE 2014 STEAM GENERATOR  
TUBE INSPECTIONS (TAC NO. MF5075)

Dear Mr. Curtland:

By letter dated October 14, 2014 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML1297A090), as supplemented by letter dated April 24, 2015 (ADAMS Accession No. ML15125A140), NextEra Energy Seabrook, LLC (NextEra), submitted its 2014 Steam Generator (SG) Tube Inspections performed during the 16th refueling outage at Seabrook Station, Unit 1 (Seabrook).

The U.S. Nuclear Regulatory Commission (NRC) staff has determined that NextEra provided the information required by their technical specifications. In addition, the NRC staff did not identify any technical issues that warrant follow up action at this time. Enclosed is the NRC staff evaluation of the Seabrook 2014 SG Tube Inspections. TAC No. MF5075 will be closed.

If you have questions, you can contact me at 301-415-3100 and/or [John.Lamb@nrc.gov](mailto:John.Lamb@nrc.gov).

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:  
Review of 2014 SG Tube Inspections

cc w/ encls: Distribution via ListServ

REVIEW OF THE 2014 STEAM GENERATOR TUBE INSPECTIONS

NEXTERA ENERGY SEABROOK, LLC.

SEABROOK STATION, UNIT 1

DOCKET NO. 50-443

By letter dated October 14, 2014 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML1297A090), as supplemented by letter dated April 24, 2015 (ADAMS Accession No. ML15125A140), NextEra Energy Seabrook, LLC (NextEra or the licensee), submitted its 2014 Steam Generator (SG) Tube Inspections, performed during the 16th refueling outage (RFO 16) at Seabrook Station, Unit 1 (Seabrook).

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 tube ends were hydraulically expanded 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.

The licensee provided the scope, extent, methods, and results of their SG tube inspections in the documents referenced above. The licensee 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 NextEra, the staff has the following observations/comments:

- No crack-like indications were detected during RFO 16.
- The licensee uses different naming conventions for the horizontal tube support structures when primary side (eddy current) or secondary side (visual) inspections are being performed. The flow distribution baffle plate (FDB) is referred to as 01H or 01C (hot-leg or cold-leg) during primary side exams or as the FDB during secondary side exams. The seven tube support plates (TSP) with quatrefoil holes are referred to as 02H or 02C through 08H or 08C during primary side exams, and as TSP 1 – 7 during secondary side exams.

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.

Enclosure

June 5, 2015

Mr. Dean Curtland, Site Vice President  
c/o Michael Ossing  
Seabrook Station  
NextEra Energy Seabrook, LLC  
P.O. Box 300  
Seabrook, NH 03874

SUBJECT: SEABROOK STATION, UNIT 1 – REVIEW OF THE 2014 STEAM GENERATOR  
TUBE INSPECTIONS (TAC NO. MF5075)

Dear Mr. Curtland:

By letter dated October 14, 2014 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML1297A090), as supplemented by letter dated April 24, 2015 (ADAMS Accession No. ML15125A140), NextEra Energy Seabrook, LLC (NextEra), submitted its 2014 Steam Generator (SG) Tube Inspections performed during the 16th refueling outage at Seabrook Station, Unit 1 (Seabrook).

The U.S. Nuclear Regulatory Commission (NRC) staff has determined that NextEra provided the information required by their technical specifications. In addition, the NRC staff did not identify any technical issues that warrant follow up action at this time. Enclosed is the NRC staff evaluation of the Seabrook 2014 SG Tube Inspections. TAC No. MF5075 will be closed.

If you have questions, you can contact me at 301-415-3100 and/or [John.Lamb@nrc.gov](mailto:John.Lamb@nrc.gov).

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:  
Review of 2014 SG Tube Inspections

cc w/ encls: Distribution via ListServ

**DISTRIBUTION:**

<b>PUBLIC</b>	LPLI-2 R/F	RidsAcrsAcnw_MailCTR Resource
RidsNrrDorIDpr Resource	RidsNrrDorILpl1-2 Resource	RidsRgn1MailCenter Resource
RidsNrrPMSeabrook Resource	RidsNrrLAABaxter Resource	KKarwoski, NRR
		AJohnson, NRR

**ADAMS Accession No.: ML15128A188**

**\*via email \*\*via memo**

OFFICE	LPL1-2/PM	LPL1-2/LA*	ESGB/BC**	LPL1-2/BC	LPL1-2/PM
NAME	JLamb	ABaxter	GKulesa	DBroaddus	JLamb
DATE	05/12/15	05/15/15	05/12/15	06/05/15	06/05/15

OFFICIAL RECORD COPY