



February 10, 2016

Docket No. 50-443

SBK-L-16015

United States Nuclear Regulatory Commission  
Attn.: Document Control Desk  
Washington, D.C. 20555-0001

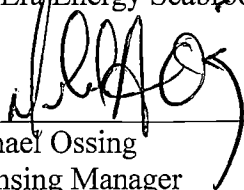
Seabrook Station  
Inservice Inspection Examination Report

Enclosed is the NextEra Energy Seabrook, LLC Inservice Inspection Examination Report for inspections conducted prior to and during the seventeenth refueling outage that concluded on November 13, 2015. The enclosed report is submitted pursuant to the requirements of paragraph IWA-6240 of the 2004 Edition of Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code and approved ASME Code Case N-532-4. Additionally, a copy of this letter and the enclosed report are being submitted to the State of New Hampshire.

Should you have any questions regarding this information, please contact Mr. Robert Parry, Engineering Support Manager, at (603) 773-7550.

Sincerely,

NextEra Energy Seabrook, LLC



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Michael Ossing  
Licensing Manager

A047  
NRR

United States Nuclear Regulatory Commission  
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cc: NRC Region I Administrator  
NRC Project Manager, Project Directorate I-2  
NRC Senior Resident Inspector

Wayne Brigham, Boiler Inspector  
New Hampshire Department of Labor  
Inspection Division  
PO Box 2076  
Concord, NH 03302-2076

**Enclosure to SBK-L-16015**

**FORM OAR-1 OWNER'S ACTIVITY REPORT**

Report Number: ISI-SBK-2016

Plant: Next Era Energy Seabrook, LLC  
P.O. Box 300  
Seabrook, NH 03874

Commercial Service Date: August 19, 1990 Refueling Outage No.: OR17

Current Inspection Interval: ISI-Third Interval and IWE Second Interval

Current Inspection Period: ISI Third Interval Second Period and IWE Second Interval Second Period

Edition and Addenda of Section XI applicable to the inspection plans:  
ISI Third Interval-2004 Edition No Addenda


Date and Revision of inspection plans: ISI Third Interval Effective - December 23, 2013 Rev. 16

Edition and Addenda of Section XI applicable to repairs and replacements, if different than the inspection plan: ASME Section XI 2004 Edition no Addenda

Code Cases Used: Approved Code Cases listed in Inspection Plan

**CERTIFICATE OF CONFORMANCE**

I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of OR17 conform to the requirements of Section XI.

Signed  Date 2/9/16  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New Hampshire and employed by The Hartford Steam Boiler Inspection and Insurance Company of Connecticut of Hartford, CT have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

 Commissions NB12715 ABCE, NH 762  
Inspector's Signature National Board, State, Province and Endorsements

Date 2-9-2016

FORM OAR-1 OWNER'S ACTIVITY REPORT

**TABLE 1  
 ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED  
 EVALUATION FOR CONTINUED SERVICE**

Examination Category and Item Number	Item Description	Evaluation Description
E-A E1.30	Degradation of Moisture Barrier	<p>During examination of the leak chase test connections required by IWE-2500-1, Category E-A, Item E1.30 as moisture barriers, evidence of degradation to the moisture barrier was identified. Twenty seven locations were noted as having evidence of moisture/degradation inside the outer cover. Five locations were identified as having water present. Visual examinations could not be performed past the inspection port pipe on eight locations due stuck inner plugs. Twenty leak chase test connections were selected for further examination by video probe. Eleven leak chase test connections were limited due to the configuration of the tubing and did not include video into the chase (90 degree elbows in tubing).</p> <p>The video probe inspections show the vertical sections of the risers were in generally good condition with corrosion of the side walls visible. Generally, more corrosion of the vertical risers was observed at the entrance, couplings, and nearest the entrance to the chases. No holes in the riser piping were observed. In most of the risers that contained 90 degree elbows, corrosion product debris was visible at the bottom of the vertical section in the elbow. The risers that entered the leak chase allowed for video to be obtained of the chase in most cases. The chase was observed to be either damp, contain some water, completely filled with water, or dry. The chases observed typically contained some amount of corrosion product debris, regardless whether damp, dry, or containing water.</p> <p>Overall, the locations examined appear to be in good condition with no significant level of corrosion/metal loss identified.</p> <p>In summary, based on the examinations, chemistry analysis, design, and the corrosion assessment, reasonable assurance exists to conclude that the liner has maintained the ability to perform its specified leak tight design function and that the liner plate is capable of performing its specified leak tight design function for the next operating cycle.</p>

**FORM OAR-1 OWNER'S ACTIVITY REPORT**

<b>TABLE 2</b>				
<b>ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE</b>				
<b>Code Class</b>	<b>Item Description</b>	<b>Description Of Work</b>	<b>Date Completed</b>	<b>Repair/Replacement Plan Number</b>
<b>2</b>	<b>Valve MS-V-393</b>	<b>Prefab for valve MS-V-393</b>	<b>1/28/2016</b>	<b>40339187-01</b>
<b>2</b>	<b>Valve MS-V-393</b>	<b>Installation of valve MS-V-393</b>	<b>1/28/2016</b>	<b>40339187-05</b>
<b>1</b>	<b>Stm. Gen. RC-E-11A</b>	<b>Install Mechanical Plugs</b>	<b>11/3/2015</b>	<b>40328686-01</b>
<b>1</b>	<b>Stm. Gen. RC-E-11B</b>	<b>Install Mechanical Plugs</b>	<b>11/3/2015</b>	<b>40328687-01</b>
<b>1</b>	<b>Stm. Gen. RC-E-11C</b>	<b>Install Mechanical Plugs</b>	<b>11/3/2015</b>	<b>40328692-01</b>