



January 29, 2025  
L-2025-014

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

RE: Seabrook Station  
Docket No. 50-443  
Renewed Facility Operating License NPF-86

Inservice Inspection Examination Report

Enclosed is the NextEra Energy Seabrook, LLC Inservice Inspection Examination Report for inspections conducted prior to and during the twenty-third refueling outage that concluded on November 15, 2024.

The enclosed report is submitted pursuant to the requirements of paragraph IWA-6240 of the 2013 Edition of Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code and approved ASME Code Case N-532-5, N-729-6, N-716-1 and N-722-1. 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 submission, please contact Ms. Maribel Valdez, Fleet Licensing Manager, at 561-904-5164.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on the 29<sup>th</sup> day of January 2025.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Mack", written over a horizontal line.

Kenneth Mack  
Director of Licensing and Regulatory Compliance

Enclosure

cc: NRC Region I Administrator  
NRC Project Manager, Project Directorate I-2  
NRC Senior Resident Inspector  
Brian Oliver, New Hampshire Department of Labor, Inspection Division  
PO Box 2076, Concord, NH 03302-2076

Report Number: ISI-SBK-OR23-2024

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

Commercial Service Date: August 19, 1990 Refueling Outage No.: OR23

Current Inspection Interval: ISI- Fourth Interval (August 19, 2020, to August 18, 2030)  
IWE- Third Interval (August 19, 2020, to August 18, 2030)

Current Inspection Period: ISI- Second Period (August 19, 2023, to August 18, 2027)  
IWE- Second Period (August 19, 2023, to August 18, 2027)

Edition and Addenda of Section XI applicable to the inspection plans:

ISI Fourth Interval-2013 Edition No Addenda and IWE Third Interval-2013 Edition No Addenda

Date and Revision of inspection plans: ISI Fourth Interval (September 30, 2021, Rev. 0)  
IWE Third Interval (September 21, 2021, Rev. 0)

Edition and Addenda of Section XI applicable to repairs and replacements, if different than the inspection plan: Same

Code Cases Used: N-532-5, N-729-6, N-716-1, N-722-1

### **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 OR23 conform to the requirements of Section XI.

Signed Donna R. Slivon Digitally signed by Donna R. Slivon  
DN: cn=Donna R. Slivon, o=FPL/NextEra Energy, ou=First Program Engineering-IEI  
Program Owner & Principal Level II, email=Donna.Slivon@fpl.com, c=US  
Date: 2025.01.22 15:59:21 -05'00' Date: 1/22/2025  
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 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.

[Signature] Commissions 17120 AD, I, N, P, TS NH 1074  
Inspector's Signature (National Board Number and Endorsements)  
Date 1/24/2025

**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 E1.11	Moisture Barrier Liner	<p>AR02454594, AR02499277, AR02497786 (CTMT Liner and Moisture Barrier)</p> <p><u>Items Identified</u></p> <p>Chipped, scratched paint, minor surface pitting, and mechanically induced impact areas were identified on liner and penetrations. Light surface corrosion was observed, but no deformed metal or measurable wall loss was identified.</p> <p>Additionally, a small area of the moisture barrier was identified as separated from the concrete edge.</p> <p><u>Engineering Evaluation</u></p> <p>The conditions identified do not impact the containment liner's pressure-retaining capacity or penetrations. The conditions noted are nonstructural and have no unacceptable effect on the containment's structural integrity or leak tightness.</p> <p>Small area of moisture barrier is judged to be acceptable with deferred correction as there is no indication of full through-separation from the containment liner nor loss of moisture proofing ability.</p>

**TABLE 2**  
**ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE**

<b>Code Class</b>	<b>Item Description</b>	<b>Description Of Work</b>	<b>Date Completed</b>	<b>Repair/Replacement Plan Number</b>
2	1-CS-V-117 Bonnet Replacement	Replace Diaphragm and Bonnet Assembly	09/06/2024	40732007-01
3	1-SW-V-54	Valve Replacement	10/31/2024	40848783-38
3	1-SW-V-56	Valve Replacement	10/31/2024	40848783-39
3	1-SW-V-20	Valve Replacement	10/31/2024	40855108-06
2	1-MS-V-394	Replacement of Valve Plug Assembly and Seat Ring - MS-V-394	10/31/2024	40861185-01
3	1-MS-V-96	Replacement of Valve Disc MS-V-96	10/31/2024	40857819-01
3	1-SW-V-34	Replacement of Valve SW-V-34 And Bolting	10/31/2024	40887860-05
2	1- FW-V-115	Replacement of FW-V-115	10/31/2024	40950528-01
3	1- SW-1801-2-161-24"	Replacement of Flange Bolting – SW-1801-2-161-24"	10/31/2024	40950955-04

**TABLE 2**  
**ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE**

<b>Code Class</b>	<b>Item Description</b>	<b>Description Of Work</b>	<b>Date Completed</b>	<b>Repair/Replacement Plan Number</b>
3	1- SW-1801-013-161-24"	Replacement of Flange Bolting – SW-1801-013-161-24"	10/31/2024	40950958-04
3	1- SW-1801-3-153-24"	Replacement of Flange Bolting – SW-1801-3-153-24"	10/31/2024	40951520-04
2	1- MS-V-393	Replacement of Valve MS-V-393 Plug and Retainer assy.	10/31/2024	40849042-01
1	1-RC-E-11A	RC-E-11A Steam Generator Tube Plugs	10/31/2024	40857231-01
1	1- RC-E-11B	RC-E-11B Steam Generator Tube Plugs	10/31/2024	40857232-01
1	1- RC-E-11C	RC-E-11C Steam Generator Tube Plugs	10/31/2024	40857234-01
1	1- RC-E-11D	RC-E-11D Steam Generator Tube Plugs	10/31/2024	40857235-01