



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION I  
2100 RENAISSANCE BLVD., SUITE 100  
KING OF PRUSSIA, PA 19406-2713

March 4, 2015

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR SEABROOK STATION, UNIT NO. 1  
(REPORT 05000443/2014001)**

Dear Mr. Curtland:

On February 11, 2015, the U. S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Seabrook Station, Unit No. 1 (Seabrook). The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2014 through December 31, 2014. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Seabrook operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Seabrook during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2016. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. In addition to baseline inspections, the NRC will perform Inspection Procedure 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants." The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

As noted in the 2014 mid-cycle letter regarding the Alkali-Silica Reaction (ASR) concrete issues, the NRC will continue to provide focused oversight of NextEra's testing being conducted at the Ferguson Structural Engineering Laboratory at the University of Texas - Austin and your

assessment of ASR progression in Seabrook concrete structures. Our inspection activities will be conducted using our annual follow-up of selected Problem Identification and Resolution samples. While tentative dates for these ongoing inspections are included in the attached inspection schedule, we understand that your testing schedule is subject to change and we will coordinate closely with your ASR project management staff to select the most advantageous opportunities to observe your activities.

Additionally, an NRC audit of licensee efforts towards compliance with Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," and Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation," is ongoing for various sites. The audit includes an onsite visit for the NRC staff to evaluate mitigating strategies as described in the licensee submittals, and to receive and review information relative to associated open items. This onsite audit will aid NRC staff in developing a final Safety Evaluation for the site. The audit at your site has been scheduled for the week of July 27, 2015. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

In accordance with Title 10 of the *Code of Federal Regulations*, Part 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at (610) 337-5233 with any questions you have regarding this letter.

Sincerely,

**/RA/**

Glenn T. Dentel, Chief  
Projects Branch 3  
Division of Reactor Projects

Docket No. 50-443  
License No. NPF-86

Enclosure: Seabrook Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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 /RA/  
 Glenn T. Dentel, Chief  
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<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME	PCataldo/per email MSD	MDraxton/ MSD	GDentel / GTD		
DATE	02/25/15	02/26/15	03/04/15		



**Seabrook**  
**Inspection / Activity Plan**  
**01/01/2015 - 06/30/2016**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>3-23EXM - INITIAL OL EXAM</b>		<b>3</b>
1	02/17/2015	03/20/2015	U01915	FY15-SEABROOK INITIAL OPERATOR LICENSING EXAM	
1	03/23/2015	04/04/2015	U01915	FY15-SEABROOK INITIAL OPERATOR LICENSING EXAM	
			<b>MODS - PERMANENT PLANT MODIFICATIONS</b>		<b>3</b>
1	03/02/2015	03/06/2015	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1	03/16/2015	03/20/2015	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			<b>ASR - PI&amp;R SAMPLE - ASR MONITORING</b>		<b>2</b>
1	03/23/2015	03/27/2015	IP 71152	Problem Identification and Resolution	
			<b>71124 - RAD EFFLUENT CONTROL RETS</b>		<b>1</b>
1	04/20/2015	04/23/2015	IP 71124.05	Radiation Monitoring Instrumentation	
1	04/20/2015	04/23/2015	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			<b>7111107T - TRIENNIAL HEAT SINK</b>		<b>1</b>
1	05/18/2015	05/22/2015	IP 7111107T	Heat Sink Performance	
			<b>71124 - REMP</b>		<b>1</b>
1	07/06/2015	07/09/2015	IP 71124.07	Radiological Environmental Monitoring Program	
			<b>ISFSI - ISFSI OPERATIONAL INSPECTION</b>		<b>1</b>
1	09/21/2015	09/25/2015	IP 60855	Operation Of An ISFSI	
1	09/21/2015	09/25/2015	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>7111108P - INSERVICE INSPECTION</b>		<b>1</b>
1	10/05/2015	10/16/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>7111111B - REQUAL INSP W/ P/F RESULTS</b>		<b>2</b>
1	11/30/2015	12/04/2015	IP 7111111B	Licensed Operator Requalification Program	
			<b>ASR - PI&amp;R SAMPLE - ASR MONITORING</b>		<b>2</b>
1	10/05/2015	10/09/2015	IP 71152	Problem Identification and Resolution	
			<b>71124 - HP 71124.01 02 03 04</b>		<b>1</b>
1	10/19/2015	10/23/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/19/2015	10/23/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1	10/19/2015	10/23/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/19/2015	10/23/2015	IP 71124.04	Occupational Dose Assessment	
			<b>EP - EP PROGRAM INSPECTION</b>		<b>1</b>
1	11/02/2015	11/06/2015	IP 7111402	Alert and Notification System Testing	
1	11/02/2015	11/06/2015	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	11/02/2015	11/06/2015	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

**Seabrook**  
**Inspection / Activity Plan**  
**01/01/2015 - 06/30/2016**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>71151 - HP PI VERIFY RAD HAZARD ALARA</b>		<b>1</b>
1	12/07/2015	12/10/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	12/07/2015	12/10/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1	12/07/2015	12/10/2015	IP 71151	Performance Indicator Verification	
			<b>EP - EP EXERCISE EVALUATION</b>		<b>4</b>
1	04/04/2016	04/08/2016	IP 7111401	Exercise Evaluation	
			<b>71124 - 01 EXPOSURE CONTROL</b>		<b>1</b>
1	04/04/2016	04/07/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			<b>71124 - 02 ALARA</b>		<b>1</b>
1	04/04/2016	04/07/2016	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>ASR - PI&amp;R SAMPLE - ASR MONITORING</b>		<b>2</b>
1	04/04/2016	04/08/2016	IP 71152	Problem Identification and Resolution	
			<b>71124 - 05 RAD MONITORING INSTRUMENTATION</b>		<b>1</b>
1	05/16/2016	05/20/2016	IP 71124.05	Radiation Monitoring Instrumentation	

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