



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I**
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

September 2, 2014

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: MID-CYCLE ASSESSMENT LETTER FOR SEABROOK STATION, UNIT NO. 1
(REPORT 05000443/2014006)**

Dear Mr. Curtland:

On August 14, 2014, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of Seabrook Station, Unit No. 1 (Seabrook). The NRC reviewed the most recent quarterly performance indicators in addition to inspection results and enforcement actions from July 1, 2013 through June 30, 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 was 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 Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all performance indicators demonstrated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct Reactor Oversight Process baseline inspections at your facility.

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised. All cross-cutting aspects identified during inspections conducted in calendar year 2014 reflect this revision to Inspection Manual Chapter (IMC) 0310. Cross-cutting aspects identified in 2013 using the 2013 terminology were converted to the latest revision in accordance with the cross-reference in IMC 0310 during the mid-cycle assessment review and evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305.

The enclosed inspection plan lists the inspections scheduled through December 31, 2015. 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 end-of-cycle performance review. As part of our baseline inspection program, we will maintain a focused oversight of NextEra's actions to address the Alkali Silica Reaction (ASR) non-conforming condition impacting safety-related reinforced concrete structures at Seabrook. This will be accomplished through scheduled six-month inspection activities using Inspection Procedure (IP) 71152, "Problem Identification and Resolution Inspection," annual

sampling guidance. In addition to baseline inspections, the NRC will perform IP 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.

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," which requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation," which requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. This audit includes an onsite component in order for the NRC to evaluate licensee plans for complying with the Orders, as described in site-specific submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. 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* (10 CFR), 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 the NRC's Agencywide Document Access and Management 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: Inspection Plan

cc w/encl: Distribution via ListServ

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DOCNAME: S:\ROP ASSESSMENT MEETINGS\ROP-15 MID-CYCLE REVIEW\BRANCH 3\SEABROOK\2014 SB MC LETTER FINAL.DOCX
 ADAMS Accession No.: **ML14239A182**

<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	08/25/14	08/25/14	08/27/14		

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Seabrook
Inspection / Activity Plan
07/01/2014 - 12/31/2015

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			TRI FI - TRIENNIAL FIRE PROTECTION		4
1	07/07/2014	07/11/2014	IP 711105T	Fire Protection [Triennial]	
			71152B - PI&R BIENNIAL		2
1	10/06/2014	10/10/2014	IP 71152B	Problem Identification and Resolution	
1	10/20/2014	10/24/2014	IP 71152B	Problem Identification and Resolution	
			71124.08 - RADWASTE		1
1	08/18/2014	08/22/2014	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			ASR - PI&R SAMPLE - ASR MONITORING		2
1	10/20/2014	10/24/2014	IP 71152	Problem Identification and Resolution	
			EP EXER - EP EXERCISE INSPECTION		2
1	11/03/2014	11/07/2014	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
			3-23EXM - INITIAL OL EXAM		3
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	
			71151 - 71151 PI VERIFY IP 71124.01, 02 & 05		1
1	12/08/2014	12/12/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	12/08/2014	12/12/2014	IP 71124.02	Occupational ALARA Planning and Controls	
1	12/08/2014	12/12/2014	IP 71124.05	Radiation Monitoring Instrumentation	
1	12/08/2014	12/12/2014	IP 71151-OR01		
1	12/08/2014	12/12/2014	IP 71151-PR01		
			ISFSI - ISFSI OPERATIONAL INSPECTION		1
1	03/01/2015	04/30/2015	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			ASR - PI&R SAMPLE - ASR MONITORING		2
1	03/02/2015	03/06/2015	IP 71152	Problem Identification and Resolution	
			MODS - PERMANENT PLANT MODIFICATIONS		3
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	
			71124 - RAD EFFLUENT CONTROL RETS		1
1	04/20/2015	04/23/2015	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			7111107T - TRIENNIAL HEAT SINK		1
1	06/01/2015	06/05/2015	IP 7111107T	Heat Sink Performance	
			71124 - REMP		1
1	07/06/2015	07/09/2015	IP 71124.07	Radiological Environmental Monitoring Program	

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

Seabrook
Inspection / Activity Plan
07/01/2014 - 12/31/2015

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			ASR - PI&R SAMPLE - ASR MONITORING		2
1	09/14/2015	09/18/2015	IP 71152	Problem Identification and Resolution	
			7111108P - INSERVICE INSPECTION		1
1	10/05/2015	10/16/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			7111111B - REQUAL INSP W/ P/F RESULTS		2
1	12/07/2015	12/11/2015	IP 7111111B	Licensed Operator Requalification Program	
			71124 - HP 71124.01 02 03 04		1
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	
			EP - EP PROGRAM INSPECTION		1
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	
			71151 - HP PI VERIFY RAD HAZARD ALARA		1
1	12/07/2015	12/10/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	12/07/2015	12/10/2015	IP 71151	Performance Indicator Verification	

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