



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 2, 2016

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 05000443/2015006)**

Dear Mr. Curtland:

On February 11, 2016, 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, 2015 through December 31, 2015. 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 December 31, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to baseline inspections, the NRC will perform Inspection Procedure 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants." Additionally, the NRC will perform Temporary Instruction (TI) 2515-190, "Inspection of Interim Actions of Near-Term Task Force Recommendation 2.1 Flooding Reevaluations." As discussed below, the NRC will also perform Temporary Instruction (TI) 2515-191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans." 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 2015 mid-cycle letter (ADAMS Accession No. ML15229A049) regarding the Alkali-Silica Reaction (ASR) concrete issues, the NRC will continue to provide focused oversight of NextEra's assessment of ASR progression in Seabrook concrete structures using Problem Identification and Resolution (PI&R) annual samples. Based on our fourth quarter 2015 PI&R annual sample review documented in NRC inspection report (IR) 2015-004 dated February 12, 2016 (ADAMS Accession No. ML16043A391), we concluded that your corrective actions to implement multiple training, program, and oversight changes to correct the organizational mindset issues and strengthen individual responsibilities and accountability for implementation of the Seabrook Structures Monitoring Program have either not been implemented, or are not yet effective, and thus require additional management attention near term. Therefore, our inspection activities will continue using our follow-up of selected annual PI&R samples. While tentative dates for these ongoing inspections are included in the attached inspection schedule, we understand that your corrective actions schedule is subject to change. We will coordinate closely with your ASR project management staff to select the most appropriate opportunities to inspect your activities.

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." This Order 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." This Order 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. The audit was completed for Seabrook, and the information gathered will aid staff in development of the Final Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing TI 2515-191, "Inspection of the Implementation of Mitigating Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communications/Staffing/Multi-Unit Dose Assessment Plans," in early 2017.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 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 (PARS) 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).

D. Curtland

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Please contact me at (610) 337-5200 with any questions you have regarding this letter.

Sincerely,

/RA/

Fred L. Bower, III, Chief
Project Branch 3
Division of Reactor Projects

Docket Nos. 50-443
License Nos. NPF-86

Enclosure: Seabrook Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-16 EOC Review\Branch 3\Seabrook\2015 EOC Letter SB.docx

ADAMS Accession No. **ML16061A439**

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive		<input checked="" type="checkbox"/> Publicly Available	
		<input type="checkbox"/> Sensitive		<input type="checkbox"/> Non-Publicly Available	
OFFICE	R1/DRP	R1/DRP	R1/DRS	R1/DRP	RI/DRP
NAME	PCataldo/ FLB for via email	MDraxton/ RSB for	MGray/ MG via phone	MScott/ MLS	FBower/ FLB
DATE	02/29 /16	02/29 /16	03/01/16	03/ 01 /16	02/ 29 /16

OFFICIAL RECORD COPY

Seabrook
Inspection / Activity Plan
01/01/2016 - 12/31/2017

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			TI-190 - NTF FLOODING RECOMMENDATION 2.1 FLOOD		2
1	01/01/2016	03/31/2016	IP 2515/190	Inspection of Interim Actions of Near-Term Task Force Recommendation 2.1 Flooding Reevaluations	
			71152A - PIR SAMPLE - CEB ASR RCE REVIEW		1
1	02/01/2016	02/05/2016	IP 71152-Reviews	In-depth Reviews	
			EP - EP EXERCISE EVALUATION		4
1	04/04/2016	04/08/2016	IP 7111401	Exercise Evaluation	
			71124 - 01 RAD EXPOSURE CONTROL		1
1	04/04/2016	04/07/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			71124 - 05 RAD MONITORING INSTRUMENTATION		1
1	05/16/2016	05/20/2016	IP 71124.05	Radiation Monitoring Instrumentation	
			7111121 - CDBI		6
1	08/01/2016	08/05/2016	IP 7111121	Component Design Bases Inspection	
1	08/15/2016	08/19/2016	IP 7111121	Component Design Bases Inspection	
1	08/29/2016	09/02/2016	IP 7111121	Component Design Bases Inspection	
			71124.08 - RADWASTE		1
1	08/15/2016	08/19/2016	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			71152BI - PI&R BIENNIAL		7
1	10/03/2016	10/07/2016	IP 71152B	Problem Identification and Resolution	
1	10/17/2016	10/21/2016	IP 71152B	Problem Identification and Resolution	
			ASR - PI&R SAMPLE - ASR MONITORING		2
1	09/12/2016	09/16/2016	IP 71152	Problem Identification and Resolution	
			71124 - 71151 PI VERIFY 71124.01 AND 05 RAD MONT		1
1	12/05/2016	12/08/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	12/05/2016	12/08/2016	IP 71124.05	Radiation Monitoring Instrumentation	
1	12/05/2016	12/08/2016	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	12/05/2016	12/08/2016	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			71152A - PI&R ANNUAL SAMPLE - ASR MONITORING		1
1	01/01/2017	03/30/2017	IP 71152-Reviews	In-depth Reviews	
			TI-191 - FUKUSHIMA LESSONS-LEARNED		1
1	02/20/2017	02/24/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			71124 - 71124.01 RAD HAZARD AND 02 ALARA		1
1	03/20/2017	03/23/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/20/2017	03/23/2017	IP 71124.02	Occupational ALARA Planning and Controls	

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

Seabrook
Inspection / Activity Plan
01/01/2016 - 12/31/2017

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			7111108P - INSERVICE INSPECTION		1
1	04/10/2017	04/21/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			71124 - 71124.01RADHAZ02ALARA03AIRBORNE04DOSE		1
1	04/10/2017	04/13/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/10/2017	04/13/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/10/2017	04/13/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/10/2017	04/13/2017	IP 71124.04	Occupational Dose Assessment	
			EP - EP PROGRAM INSPECTION		1
1	05/01/2017	05/05/2017	IP 7111402	Alert and Notification System Testing	
1	05/01/2017	05/05/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	05/01/2017	05/05/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	05/01/2017	05/05/2017	IP 71151	Performance Indicator Verification	
			7111105T - TRIENNIAL FIRE PROTECTION		4
1	06/26/2017	06/30/2017	IP 7111105T	Fire Protection [Triennial]	
1	07/10/2017	07/14/2017	IP 7111105T	Fire Protection [Triennial]	
			71152A - PI&R ANNUAL SAMPLE – ASR MONITORING		1
1	07/01/2017	09/30/2017	IP 71152-Reviews	In-depth Reviews	
			71124 - 71124.06 RETS		1
1	07/24/2017	07/27/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			ISFSI - ISFSI LOADING CAMPAIGN INSPECTION		1
1	08/07/2017	08/11/2017	IP 60855	Operation Of An ISFSI	
1	08/07/2017	08/11/2017	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			71124 - 71124.07 REM P		1
1	09/04/2017	09/07/2017	IP 71124.07	Radiological Environmental Monitoring Program	
			7111111B - SEABROOK REQUAL INSP WITH P/F RESULTS		2
1	12/04/2017	12/08/2017	IP 7111111B	Licensed Operator Requalification Program	
			71124 - 71151 PI VERIFY71124.02ALARA06RETS07REMP		1
1	12/04/2017	12/07/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	12/04/2017	12/07/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	12/04/2017	12/07/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1	12/04/2017	12/07/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	12/04/2017	12/07/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

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