



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 1, 2017

Mr. Mano Nazar
President and Chief Nuclear Officer, Nuclear Division
NextEra Energy Seabrook, LLC
Mail Stop: NT3/JW
15430 Endeavor Drive
Jupiter, FL 33478

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR SEABROOK STATION, UNIT NO. 1
(REPORT 05000443/2016006)**

Dear Mr. Nazar:

The U.S. Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Seabrook Station, Unit 1 (Seabrook), reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016, through December 31, 2016. 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 concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Seabrook during the most recent quarter was within the Licensee Response Column (Column 1) of the NRC's Reactor Oversight Process (ROP) Action Matrix in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program," because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the 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, 2018. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. 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 staff will also confirm the implementation of the Fukushima-related orders by performing Temporary Instruction 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." Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. 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 previously noted in the 2016 mid-cycle letter (Report 05000443/2016005; ML16242A034¹) 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's concrete structures using Problem Identification and Resolution (PI&R) annual samples. While tentative dates for these ongoing inspections are included in the attached inspection schedule, we understand that your schedule is subject to change. We will coordinate scheduling closely with your ASR project management staff to select the most appropriate opportunities for us to inspect your activities.

From January 1 to December 31, 2016, the NRC issued one Severity Level III traditional enforcement violation associated with willfulness. Therefore, the NRC plans to conduct Inspection Procedure 92702, "Follow up on Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, and Alternative Dispute Resolution Confirmatory Orders" to follow-up on this violation.

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).

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 No. 50-443
License No. NPF-86

Enclosure:
Seabrook Inspection/Activity Plan

¹ The designation in parentheses refers to an Agencywide Documents Access and Management System (ADAMS) Accession Number. Documents referenced in this letter are publicly available using the Accession Number in ADAMS.

M. Nazar

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SUBJECT: ANNUAL ASSESSMENT LETTTER FOR SEABROOK STATION UNIT 1
(REPORT 05000443/2016006) dated March 1, 2017

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DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-17 EOC Review\Branch 3\Seabrook\Seabrook-2017-Annual Assessment Letter_Final.docx
 ADAMS ACCESSION NUMBER: ML17059C016

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OFFICIAL RECORD COPY

Seabrook
Inspection / Activity Plan
 01/01/2017 - 12/31/2018

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	
			TI-191 - FUKUSHIMA LESSONS-LEARNED		6
1	05/22/2017	05/26/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			71152A - ANNUAL SAMPLE - ASR + SHIELD BLOCK		2
1	06/05/2017	06/09/2017	IP 71152-Reviews	In-depth Reviews	
			7111105T - TRIENNIAL FIRE PROTECTION		5
1	06/26/2017	06/30/2017	IP 7111105T	Fire Protection [Triennial]	
1	07/10/2017	07/14/2017	IP 7111105T	Fire Protection [Triennial]	
			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 REMP		1
1	09/04/2017	09/07/2017	IP 71124.07	Radiological Environmental Monitoring Program	
			11/27EXM - SEABROOK INITIAL EXAM		4
1	01/22/2018	01/26/2018	U01948	FY18-SEABROOK INITIAL OPERATOR LICENSING EXAM	
1	02/19/2018	02/23/2018	U01948	FY18-SEABROOK INITIAL OPERATOR LICENSING EXAM	
			71152A - PI&R ANNUAL SAMPLE - ASR MONITORING		1
1	10/01/2017	12/31/2017	IP 71152-Reviews	In-depth Reviews	
			7111111B - SEABROOK REQUAL INSP WITH P/F RESULTS		2
1	12/04/2017	12/08/2017	IP 7111111A	Licensed Operator Requalification Program - Annual Review	

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

Seabrook
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			711111B - SEABROOK REQUAL INSP WITH P/F RESULTS		2
1	12/04/2017	12/08/2017	IP 711111B	Licensed Operator Requalification Program	
			71124 - 71151 PI VERIFY 71124.02 ALARA 06 RETS 07 REMP		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	
			ASR - PI&R SAMPLE - ASR MONITORING		1
1	01/01/2018	03/31/2018	IP 71152	Problem Identification and Resolution	
			EP - EP EXERCISE INSPECTION		4
1	04/02/2018	04/06/2018	IP 7111401	Exercise Evaluation	
			711121N - EQ PROGRAM		2
1	03/19/2018	03/23/2018	IP 711121N	Component Design Bases Inspection (Programs)	
1	04/02/2018	04/06/2018	IP 711121N	Component Design Bases Inspection (Programs)	
			HEAT - TRIENNIAL HEAT SINK		2
1	06/04/2018	06/08/2018	IP 7111107T	Heat Sink Performance	
			711117T - EVALS OF CHANGES, TESTS, & EXPERIMENTS		3
1	06/18/2018	06/22/2018	IP 711117T-5059scrm	screenings and/or applicability determinations	
			71152B - PI&R BIENNIAL		1
1	07/23/2018	07/27/2018	IP 71152B	Problem Identification and Resolution	
1	08/06/2018	08/10/2018	IP 71152B	Problem Identification and Resolution	
			71124.08 - RADWASTE		1
1	08/20/2018	08/24/2018	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			U1 ISI - UNIT 1 INSERVICE INSPECTION		2
1	10/08/2018	10/19/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			71124 - IP 71124.01 .02 .03 .04		1
1	10/09/2018	10/12/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/09/2018	10/12/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1	10/09/2018	10/12/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/09/2018	10/12/2018	IP 71124.04	Occupational Dose Assessment	
			71124 - IP 71151 PI VERIFY IP 71124.01 RAD HAZAR		2
1	12/03/2018	12/06/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	

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1	12/03/2018	12/06/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	12/03/2018	12/06/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

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