



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

February 28, 2018

Mr. Mano Nazar  
President and Chief Nuclear Officer  
Nuclear Division  
NextEra Energy Seabrook, LLC  
Mail Stop: EX/JB  
700 Universe Blvd.  
Juno Beach, FL 33408

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR SEABROOK STATION, UNIT NO. 1  
(REPORTS 05000443/2017006, 05000443/2017402, AND 05000443/2017501)**

Dear Mr. Nazar:

The 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, 2017 through December 31, 2017. 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, 2019. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. 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 also be performing Inspection Procedure (IP) 71002, "License Renewal Inspection" and IP 81311, "Physical Security Requirements for Independent Spent Fuel Storage Installations." 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 will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

As previously noted in the August 28, 2017 Updated Inspection Plan letter (Report 05000443/2017005; ADAMS Accession No. ML17233A016) regarding the Alkali-Silica Reaction (ASR) concrete issues, in addition to baseline inspections, 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 closely with your ASR project management staff to select the most appropriate opportunities to inspect your activities.

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 Plan

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SEABROOK STATION, UNIT NO. 1  
 (REPORTS 05000443/2017006, 05000443/2017402, AND 05000443/2017501)  
 DATED FEBRUARY 28, 2018

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DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-18 EOC Review\Branch 3\Seabrook\SB ROP-18 Annual Assessment Ltr FINAL.docx  
 ADAMS ACCESSION NUMBER: ML18053A751

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OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME	PCatldo per email to MDraxton	MDraxton	FBower		
DATE	2/22/18	2/22/18	2/22/18		

OFFICIAL RECORD COPY

# IP 22 Inspection Activity Plan Report

## Seabrook

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>SEABROOK INITIAL OL EXAM</b>						4
1	01/07/2018	01/12/2018	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	02/26/2018	03/02/2018	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>ACCESS CONTROL, EQUIP PERF, TRAINING</b>						3
1	03/12/2018	03/16/2018	IP 71130.02	000734	Access Control	
1	03/12/2018	03/16/2018	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1	03/12/2018	03/16/2018	IP 71130.07	000739	Security Training	
1	03/12/2018	03/16/2018	IP 71151	001338	Performance Indicator Verification	
1	03/12/2018	03/16/2018	IP 81311	000831	Physical Security Requirements for Independent Spent Fuel Storage Installations	
<b>EQ PROGRAM</b>						3
1	03/19/2018	03/23/2018	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1	04/02/2018	04/06/2018	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
<b>PI&amp;R SAMPLE - ASR MONITORING</b>						1
1	03/19/2018	03/23/2018	IP 71152	000748	Problem Identification and Resolution	
<b>HP</b>						1
1	03/26/2018	03/30/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	03/26/2018	03/30/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	03/26/2018	03/30/2018	IP 71124.04	000728	Occupational Dose Assessment	
<b>EP EXERCISE INSPECTION</b>						4
1	04/02/2018	04/06/2018	IP 71114.01	000716	Exercise Evaluation	
<b>License Renewal Program Assessment</b>						2
1	04/30/2018	05/04/2018	IP 71002	000686	License Renewal Inspection	
<b>TRIENNIAL HEAT SINK</b>						1
1	06/04/2018	06/08/2018	IP 71111.07T	000700	Heat Sink Performance -Triennial	
<b>HP</b>						1
1	06/11/2018	06/15/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	06/11/2018	06/15/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	06/11/2018	06/15/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	

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

# IP 22 Inspection Activity Plan Report

## Seabrook

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>50.59 PROCESS</b>						<b>3</b>
1	06/18/2018	06/22/2018	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
<b>MC&amp;A</b>						<b>1</b>
1	07/16/2018	07/20/2018	IP 71130.11	000742	Material Control and Accounting (MC&A)	
<b>PI&amp;R BIENNIAL</b>						<b>4</b>
1	07/23/2018	07/27/2018	IP 71152B	000747	Problem Identification and Resolution	
1	08/06/2018	08/10/2018	IP 71152B	000747	Problem Identification and Resolution	
<b>RADWASTE</b>						<b>1</b>
1	08/20/2018	08/24/2018	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
<b>Annual PIR Sample - ASR</b>						<b>1</b>
1	09/17/2018	09/21/2018	IP 71152	000748	Problem Identification and Resolution	
<b>UNIT 1 INSERVICE INSPECTION</b>						<b>1</b>
1	10/08/2018	10/19/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
<b>HP</b>						<b>1</b>
1	10/15/2018	10/19/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	10/15/2018	10/19/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	10/15/2018	10/19/2018	IP 71151	000746	Performance Indicator Verification	
<b>RETS</b>						<b>1</b>
1	01/28/2019	02/01/2019	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
<b>Annual Sample - ASR</b>						<b>1</b>
1	02/04/2019	02/08/2019	IP 71152	001339	Problem Identification and Resolution	
<b>EP PROGRAM INSPECTION</b>						<b>2</b>
1	04/08/2019	04/12/2019	IP 71114.02	000717	Alert and Notification System Testing	
1	04/08/2019	04/12/2019	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1	04/08/2019	04/12/2019	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	04/08/2019	04/12/2019	IP 71151	001397	Performance Indicator Verification	

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## Seabrook

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>RAD SAFETY RETS</b>						1
1	04/08/2019	04/12/2019	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
<b>DESIGN BASES ASSURANCE INSP - TEAMS</b>						6
1	04/15/2019	04/19/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1	04/29/2019	05/03/2019	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
<b>ACCESS CONTROL, PROTECTIVE STRATEGY, TSR</b>						4
1	04/22/2019	04/26/2019	IP 71130.02	000734	Access Control	
1	04/22/2019	04/26/2019	IP 71130.05	000737	Protective Strategy Evaluation	
1	04/22/2019	04/26/2019	IP 71130.14	000743	Review of Power Reactor Target Sets	
1	04/22/2019	04/26/2019	IP 71151	001338	Performance Indicator Verification	
<b>HP</b>						1
1	05/13/2019	05/17/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	05/13/2019	05/17/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	05/13/2019	05/17/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/13/2019	05/17/2019	IP 71124.04	000729	Occupational Dose Assessment	
1	05/13/2019	05/17/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
<b>RAD SAFETY 01,02,03,04</b>						1
1	05/20/2019	05/24/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	05/20/2019	05/24/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	05/20/2019	05/24/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/20/2019	05/24/2019	IP 71124.04	000729	Occupational Dose Assessment	
<b>RAD SAFETY REMP</b>						1
1	06/17/2019	06/21/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
<b>REMP</b>						1
1	07/15/2019	07/19/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
<b>CYBER MS8</b>						2
1	07/15/2019	07/19/2019	IP 71130.10P	000741	Cyber Security	
1	07/29/2019	08/02/2019	IP 71130.10P	000741	Cyber Security	

# IP 22 Inspection Activity Plan Report

## Seabrook

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Annual Sample - ASR</b>						1
1	08/05/2019	08/09/2019	IP 71152	000748	Problem Identification and Resolution	
<b>HP</b>						1
1	09/09/2019	09/13/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	09/09/2019	09/13/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	09/09/2019	09/13/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	09/09/2019	09/13/2019	IP 71124.04	000729	Occupational Dose Assessment	
1	09/09/2019	09/13/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
<b>HP</b>						1
1	11/18/2019	11/22/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	11/18/2019	11/22/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	11/18/2019	11/22/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/18/2019	11/22/2019	IP 71124.04	000729	Occupational Dose Assessment	
1	11/18/2019	11/22/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1	11/18/2019	11/22/2019	IP 71151	000746	Performance Indicator Verification	
<b>SEABROOK REQUAL INSP W/ P/F RESULTS</b>						2
1	12/09/2019	12/13/2019	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance - Annual	
1	12/09/2019	12/13/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	