



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

March 4, 2013

Mr. Kevin Walsh, Site Vice President
Seabrook Nuclear Power Plant
NextEra Energy Seabrook, LLC
c/o Mr. Michael O'Keefe
P. O. Box 300
Seabrook, NH 03874

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR SEABROOK STATION, UNIT NO. 1
(REPORT 05000443/2012001)**

Dear Mr. Walsh:

On February 12, 2013, 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, 2012, through December 31, 2012. 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 the performance at Seabrook during the most recent quarter was within the Regulatory Response column of the NRC's Reactor Oversight Process (ROP) Action Matrix because of one low (i.e., white) safety significance Emergency Preparedness cornerstone input described in Inspection Report (IR) 05000443/2012503, dated April 19, 2012 (ML12151A036)¹. This finding involved not identifying an exercise weakness during the post-exercise critique for an April 17, 2012, full-participation emergency exercise. The significance determination for this finding was finalized in our August 7, 2012, letter to you (ML12220A471). The 95001 supplemental inspection for the white finding was completed the week of January 21, 2013, and the results will be communicated to you via separate correspondence. The objectives of that supplemental inspection were to provide assurance that: (1) the root and contributing causes for the risk-significant issues were understood; (2) the extent of condition and extent of cause of the issues were identified and (3) the licensee's corrective actions were sufficient to address the root and contributing causes, and prevent recurrence.

On September 5, 2012, the NRC Executive Director for Operations (EDO) approved a deviation from the ROP (ML12242A370) to conduct additional inspections, beyond those prescribed by the ROP Action Matrix, that were determined to be necessary to fully evaluate the concrete degradation that you identified as occurring in safety related concrete structures at Seabrook

¹ Designation in parenthesis refers to an ADAMS accession number. Documents referenced in this letter are publicly available using the accession number in ADAMS.

due to Alkali-Silica Reaction (ASR). The additional inspection samples as well as inspection and assessment resources will be used to: 1) inspect NextEra's completed and planned actions associated with the eleven Confirmatory Action Letter (CAL) 1-2012-002 (ML121254172) concerns; 2) evaluate the quality and applicability of results from the licensee's proposed large-scale concrete specimen testing; 3) provide support for the development of staff technical guidance and 4) continue to support communications and outreach activities for stakeholders. The memorandum anticipates that this deviation will remain in force until the NRC has concluded: 1) that all CAL commitments have been satisfactorily completed and 2) an acceptable basis has been established to assure that the continued operability of concrete structures will be maintained. The status of the CAL will be reviewed during semi-annual assessments in accordance with the ROP.

On December 3, 2012, the NRC issued inspection report IR 05000443/2012009 (ML12338A283) that reviewed the adequacy of your actions to address the impact of ASR on reinforced concrete structures. Based on the inspection results, five of the eleven CAL items were closed. The remaining six will be reviewed during the inspection currently in progress and scheduled to be completed in 2013. As such, based on the closure criteria defined in the September 5, 2012, NRC EDO memorandum, the deviation from the ROP will remain in force.

The enclosed inspection plan lists the inspections scheduled through June 30, 2014. 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 the baseline inspection program, the NRC plans to complete two inspections in accordance with Inspection Procedure (IP) 92702, "Follow-up of Corrective Actions for Violations and Deviations," in order to review the actions taken in response to: 1) the CAL dated May 15, 2012, (ML12125A172) which addressed the ASR degradation of certain Seabrook concrete structures and 2) a severity level IV non-cited violation related to a contract electrician entering a high radiation area without the proper health physics briefing. The NRC will also be conducting, Temporary Instruction (TI)-182, "Review of the Implementation of the Industry Initiative to Control Degradation of underground Piping," and IP 60855.1, "Operation of an ISFSI at Operating Plants," which will review operations during the 2013 ISFSI loading campaign. 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 accordance with 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).

K. Walsh

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Please contact Glenn Dentel at 610-337-5233 with any questions you have regarding this letter.

Sincerely,

/RA/

Darrell J. Roberts, Director
Division of Reactor Projects

Docket Nos. 50-443

License Nos. NPF-86

Enclosure: Seabrook Inspection/Activity Plan

cc w/encl: Distribution via ListServ

K. Walsh

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Seabrook
Inspection / Activity Plan
01/01/2013 - 06/30/2014

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			95001 - SUPPLEMENTAL INSP-2012 EP WHITE FINDING		3
1	01/22/2013	01/31/2013	IP 95001	Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area	
			ASR - REPORT NO. 2 CAL FOLLOWUP		8
1	01/22/2013	01/25/2013	IP 92702	Followup On Corrective Actions For Violations And Deviations	
1	02/25/2013	03/01/2013	IP 92702	Followup On Corrective Actions For Violations And Deviations	
1	03/25/2013	03/29/2013	IP 92702	Followup On Corrective Actions For Violations And Deviations	
1	04/22/2013	04/26/2013	IP 92702	Followup On Corrective Actions For Violations And Deviations	
			EXM 7/16 - SEABROOK INITIAL EXAM		5
1	06/10/2013	06/14/2013	U01870	FY13-SEABROOK INITIAL OPERATOR LICENSING EXAM	
1	07/15/2013	07/20/2013	U01870	FY13-SEABROOK INITIAL OPERATOR LICENSING EXAM	
			71124 - OCC RADIATION SAFETY		1
1	03/11/2013	03/15/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/11/2013	03/15/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1	03/11/2013	03/15/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			711121 - CDBI		6
1	03/25/2013	03/29/2013	IP 711121	Component Design Bases Inspection	
1	04/08/2013	04/12/2013	IP 711121	Component Design Bases Inspection	
1	04/22/2013	04/26/2013	IP 711121	Component Design Bases Inspection	
			71124 - RADIO EFFLUENTS		1
1	05/20/2013	05/23/2013	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			60855 - ISFSI LOADING INSPECTION		2
1	06/01/2013	09/30/2013	IP 60855	Operation Of An ISFSI	
1	06/01/2013	09/30/2013	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			EP PROGR - EP PROGRAM INSPECTION		1
1	07/08/2013	07/12/2013	IP 7111402	Alert and Notification System Testing	
1	07/08/2013	07/12/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	07/08/2013	07/12/2013	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			71124 - REMP		1
1	07/22/2013	07/26/2013	IP 71124.07	Radiological Environmental Monitoring Program	
			7111111B - SEABROOK REQUAL INSP WITH P/F RESULTS		2
1	12/02/2013	12/06/2013	IP 7111111B	Licensed Operator Requalification Program	
			71151 - HP PI VERIFICATION		1
1	12/02/2013	12/02/2013	IP 71151	Performance Indicator Verification	

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

Seabrook
Inspection / Activity Plan
01/01/2013 - 06/30/2014

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			71124 - RAD HAZARD & ALARA		1
1	03/03/2014	03/07/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/03/2014	03/07/2014	IP 71124.02	Occupational ALARA Planning and Controls	
			TI 182 - DEGRAD UNDERGROUND PIPING - PHASE 2		1
1	03/17/2014	03/21/2014	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
			7111108P - INSERVICE INSPECTION		1
1	04/14/2014	04/25/2014	IP 7111108P	Inservice Inspection Activities - PWR	
			71124 - HP INSPECTION IP 71124.01, 02, 03 & 04		1
1	04/21/2014	04/25/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/21/2014	04/25/2014	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/21/2014	04/25/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/21/2014	04/25/2014	IP 71124.04	Occupational Dose Assessment	
			TRI FI - TRIENNIAL FIRE PROTECTION		4
1	06/23/2014	06/27/2014	IP 7111105T	Fire Protection [Triennial]	

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