



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

September 4, 2012

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

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -
SEABROOK STATION, UNIT NO. 1 (REPORT 05000443/2012006)**

Dear Mr. Walsh:

On August 16, 2012, 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 (PIs) in addition to inspection results and enforcement actions from July 1, 2011 through June 30, 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. This assessment reflects the integration of the Security Cornerstone into the ROP performance assessment program governed by IMC 0305, "Operating Reactor Assessment Program."

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 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)¹. As stated in that letter, we plan to conduct a supplemental inspection using Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area," when you inform us of your readiness. This inspection is conducted to provide assurance that the root cause and contributing causes of any performance issues are understood, the extent of condition is identified, and the corrective actions are sufficient to prevent recurrence.

The enclosed inspection plan lists the inspections scheduled through December 31, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to the baseline inspections, consistent with the Agency's actions related to Fukushima, the NRC will perform TI-187, "Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns" and TI-188, "Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns." The NRC will also be conducting IP 92702, "Follow-up on Traditional

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

Enforcement Actions including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, and Alternative Dispute Resolution Confirmatory Orders,” which will review actions taken in response to the confirmatory action letter dated May 15, 2012, (ML12125A172)¹ which addressed the Alkali-Silica Reaction degradation of certain Seabrook concrete structures and IP 60855.1, “Operation of an ISFSI at Operating Plants,” which will review operations during the 2013 ISFSI loading campaign. 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.

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 the NRC’s Agency-wide 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 Art Burritt at 610-337-5069 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

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ADAMS ACCESSION NUMBER: **ML12248A087**

<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	RI/DRP	
NAME	JGreives/LC for	LCline/LC	ABurritt/LC for	DRoberts/DJR	
DATE	08/27/12	08/27/12	08/27/12	09/04/12	

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Seabrook
Inspection / Activity Plan
07/01/2012 - 12/31/2013

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			92702 - LR-ASR FOLLOWUP INSPECTION		6
1	07/16/2012	07/20/2012	IP 92702	Followup On Corrective Actions For Violations And Deviations	
			71124 - OCC RADIATION SAFETY		1
1	07/16/2012	07/20/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	07/16/2012	07/20/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1	07/16/2012	07/20/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	07/16/2012	07/20/2012	IP 71124.04	Occupational Dose Assessment	
			TI 182 - DEGRADATION OF UNDERGROUND PIPING		1
1	08/06/2012	08/10/2012	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
			71124 - RADWASTE		1
1	08/27/2012	08/31/2012	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			TI-188 - TI-188 - SEISMIC WALKDOWNS		2
1	08/29/2012	12/31/2012	IP 2515/188	Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns	
			TI-187 - TI-187 - FLOODING WALKDOWNS		2
1	09/03/2012	12/31/2012	IP 2515/175	Emergency Response Organization, Drill/Exercise Performance Indicator, Program Review	
			7111108P - INSERVICE INSPECTION		1
1	09/17/2012	09/21/2012	IP 7111108P	Inservice Inspection Activities - PWR	
1	10/01/2012	10/05/2012	IP 7111108P	Inservice Inspection Activities - PWR	
			EXM 7/16 - SEABROOK INITIAL EXAM		4
1	06/17/2013	06/22/2013	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	
			60855 - ISFSI LOADING INSPECTION		2
1	03/01/2013	06/30/2013	IP 60855	Operation Of An ISFSI	
1	03/01/2013	06/30/2013	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			7111121 - CDBI		9
1	03/25/2013	03/29/2013	IP 7111121	Component Design Bases Inspection	
1	04/08/2013	04/12/2013	IP 7111121	Component Design Bases Inspection	
1	04/22/2013	04/26/2013	IP 7111121	Component Design Bases Inspection	

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

Seabrook
Inspection / Activity Plan
07/01/2012 - 12/31/2013

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
EP PROGR - EP PROGRAM INSPECTION					1
1	05/06/2013	05/10/2013	IP 7111402	Alert and Notification System Testing	
1	05/06/2013	05/10/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	05/06/2013	05/10/2013	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	05/06/2013	05/10/2013	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
71124 - RADIO EFFLUENTS					1
1	05/20/2013	05/23/2013	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
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	12/09/2013	12/13/2013	IP 7111111B	Licensed Operator Requalification Program	

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