



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

September 1, 2011

Mr. Paul Freeman  
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: MID-CYCLE LETTER FOR SEABROOK STATION, UNIT NO. 1  
(REPORT 05000443/2011006)

Dear Mr. Freeman:

On August 11, 2011, the NRC completed its mid-cycle performance review of Seabrook Station, Unit No. 1. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2010, through June 30, 2011. 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 performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined the performance at Seabrook Station, Unit No. 1 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, 2012. 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 end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. In addition to the baseline inspections, we plan to conduct an inspection of your ISFSI. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

As you know, an Operational Safety Review Team (OSART), performed by senior staff members from the International Atomic Energy Agency (IAEA), was conducted at Seabrook in June 2011. The scope of the OSART evaluation may have encompassed portions of the ROP baseline inspection program. NRC Inspection Manual Chapter 2515, Section 08.05, "Baseline Inspection Credit for Operational Safety Review Team Effort" allows a reduction in baseline inspection in those areas that are determined to overlap with the OSART review. If the results of this evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible.

In the days following the Fukushima Daiichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Daiichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)" at your facility. Results of these inspections can be found here:

<http://www.nrc.gov/japan/japan-activities.html>. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21<sup>st</sup> Century: The Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident." The NRC is currently reviewing the Task Force's recommendations to determine what additional actions may be warranted.

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).

Please contact me at 610-337-5069 with any questions you have regarding this letter.

Sincerely,



Arthur L. Burritt, Chief  
Projects Branch 3  
Division of Reactor Projects

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

Enclosure: Inspection Plan

cc w/encl: Distribution via ListServ

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/RA/

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Distribution: See attached page

**SUNSI REVIEW COMPLETE: ALB (Reviewer's Initials) ML112411340**

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**Seabrook**  
**Inspection / Activity Plan**  
**07/01/2011 - 12/31/2012**

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		<b>TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>5</b>
1	07/25/2011 07/29/2011	IP 7111105T	Fire Protection [Triennial]	
1	08/08/2011 08/12/2011	IP 7111105T	Fire Protection [Triennial]	
		<b>71124 - REMP</b>		<b>2</b>
1	09/12/2011 09/16/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	09/12/2011 09/16/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1	09/12/2011 09/16/2011	IP 71124.07	Radiological Environmental Monitoring Program	
		<b>711111B - SEABROOK REQUAL INSP W/ P/F RESULTS</b>		<b>2</b>
1	12/05/2011 12/09/2011	IP 7111111B	Licensed Operator Requalification Program	
		<b>EP PROGR - EP PROGRAM INSPECTION</b>		<b>1</b>
1	11/28/2011 12/02/2011	IP 7111402	Alert and Notification System Testing	
1	11/28/2011 12/02/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	11/28/2011 12/02/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	11/28/2011 12/02/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	11/28/2011 12/02/2011	IP 71151-EP01	Drill/Exercise Performance	
1	11/28/2011 12/02/2011	IP 71151-EP02	ERO Drill Participation	
1	11/28/2011 12/02/2011	IP 71151-EP03	Alert & Notification System	
		<b>71124 - EFFLUENTS &amp; ISFSI</b>		<b>2</b>
1	12/04/2011 12/09/2011	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
1	12/04/2011 12/09/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	12/04/2011 12/09/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1	12/04/2011 12/09/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
		<b>71124 - OCC RAD SAFETY</b>		<b>1</b>
1	01/30/2012 02/03/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	01/30/2012 02/03/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1	01/30/2012 02/03/2012	IP 71124.04	Occupational Dose Assessment	
		<b>MODS - PERMANENT PLANT MODIFICATIONS</b>		<b>3</b>
1	03/12/2012 03/16/2012	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1	03/26/2012 03/30/2012	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
		<b>EP EX - EP EXERCISE EVALUATION</b>		<b>5</b>
1	04/16/2012 04/20/2012	IP 7111401	Exercise Evaluation	
1	04/16/2012 04/20/2012	IP 7111404	Emergency Action Level and Emergency Plan Changes	
		<b>7111107T - TRIENNIAL HEAT SINK</b>		<b>1</b>
1	05/14/2012 05/18/2012	IP 7111107T	Heat Sink Performance	

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

## Seabrook

## Inspection / Activity Plan

07/01/2011 - 12/31/2012

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>71124 - RMS</b>		<b>1</b>
1	05/14/2012	05/18/2012	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>71152B - PI&amp;R</b>		<b>4</b>
1	06/11/2012	06/15/2012	IP 71152B	Problem Identification and Resolution	
1	06/25/2012	06/29/2012	IP 71152B	Problem Identification and Resolution	
			<b>7111108P - INSERVICE INSPECTION</b>		<b>1</b>
1	10/08/2012	10/19/2012	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>71124 - OCC RAD SAFETY</b>		<b>1</b>
1	10/29/2012	11/02/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/29/2012	11/02/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1	10/29/2012	11/02/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/29/2012	11/02/2012	IP 71124.04	Occupational Dose Assessment	
			<b>71124 - RW</b>		<b>1</b>
1	12/03/2012	12/07/2012	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	