



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

March 5, 2012

Mr. Paul Freeman
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: ANNUAL ASSESSMENT LETTER FOR SEABROOK STATION, UNIT NO.1
(REPORT 05000443/2011001)**

Dear Mr. Freeman:

On February 13, 2012 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, 2011 through December 31, 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 that overall, Seabrook operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Seabrook 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 June 30, 2013. 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, the NRC will perform Temporary Instruction (TI)-182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping." 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.

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" permits a reduction in baseline inspection in those areas that are determined to overlap the OSART review, if the report documenting the results of that review is made available to the public. We will complete an evaluation of any overlap between the OSART review and NRC planned baseline inspections after we receive your request to make the report publicly available. If the results of this evaluation determine inspection credit is warranted, we will contact you to discuss any necessary changes to the inspection schedule.

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,

/RA/

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

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

Enclosure:
Inspection Plan

cc: Distribution via ListServ

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Seabrook
Inspection / Activity Plan
 01/01/2012 - 06/30/2013

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			ISFSI	- ISFSI INSPECTIONS	1
1	01/15/2012	03/30/2012	IP 60855	Operation Of An ISFSI	
			71124	- OCC RAD SAFETY	1
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	
			MODS	- PERMANENT PLANT MODIFICATIONS	3
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	
			EP EX	- EP EXERCISE EVALUATION	5
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	
			7111107T	- TRIENNIAL HEAT SINK	1
1	04/16/2012	04/20/2012	IP 7111107T	Heat Sink Performance	
			71124	- HP INSTRUMENTATION	1
1	05/14/2012	05/18/2012	IP 71124.05	Radiation Monitoring Instrumentation	
			71152B	- PI&R	6
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	
			71124	- OCC RADIATION SAFETY	1
1	07/16/2012	07/20/2012	IP 60855	Operation Of An ISFSI	
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	
			7111108P	- INSERVICE INSPECTION	1
1	10/08/2012	10/19/2012	IP 7111108P	Inservice Inspection Activities - PWR	
			71124	- OCC RADIATION SAFETY	1
1	10/15/2012	10/19/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/15/2012	10/19/2012	IP 71124.02	Occupational ALARA Planning and Controls	

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

Seabrook
Inspection / Activity Plan
01/01/2012 - 06/30/2013

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		71124 - OCC RADIATION SAFETY		1
1	10/15/2012 10/19/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/15/2012 10/19/2012	IP 71124.04	Occupational Dose Assessment	
		EXM 7/16 - SEABROOK INITIAL EXAM		4
1	06/17/2013 06/22/2013	U01870	FY13-SEABROOK INITIAL OPERATOR LICENSING EXAM	
		ISFSI - ISFSI INSPECTIONS		2
1	03/01/2013 06/30/2013	IP 60855	Operation Of An ISFSI	
		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	
		7111121 - CDBI		6
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	
		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	

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