



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

September 1, 2009

Mr. Gene St. Pierre
Site Vice President
NextEra Energy Seabrook, LLC.
Seabrook Station
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**

Dear Mr. St. Pierre:

On August 13, 2009, the NRC staff completed its performance review of Seabrook Station, Unit No. 1 (Seabrook). Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2008, through June 30, 2009. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only--Security Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at Seabrook was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Although plant performance was in the Licensee Response column, the significance of a finding associated with the B emergency diesel generator failure on February 25, 2009 is still under review. We determined that this failure occurred because you did not establish adequate design control measures when you modified a flange on the diesel cooling water supply. When finalized, this finding may change our assessment of your performance at Seabrook and the facility inspection plan. However, based on our current assessment results, we plan to conduct reactor oversight (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 2010. In addition to the baseline inspections, we plan to conduct an inspection of your independent spent fuel storage installation. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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).

As you may know, the NRC is currently evaluating the scope and frequency of all the baseline inspection procedures as part of our biennial review of the reactor oversight process. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 610-337-5069 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

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

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

Enclosure: Seabrook Station Inspection/Activity Plan

cc w/encl:

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R. Shadis, New England Coalition Staff
M. Metcalf, Seacoast Anti-Pollution League

Seabrook
Inspection / Activity Plan
07/01/2009 - 12/31/2010

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			7111118 - B EDG GLYCOL SYSTEM FAILURE		4
1	02/25/2009	09/30/2009	IP 7111118-Perm Mod	Perm Mods	
			7111107T - HEAT SINK INSP		1
1	07/06/2009	07/10/2009	IP 7111107T	Heat Sink Performance	
			EP PROGR - EP PROGRAM INSPECTION		2
1	08/09/2009	08/14/2009	IP 7111402	Alert and Notification System Testing	
1	08/09/2009	08/14/2009	IP 7111403	Emergency Response Organization Augmentation Testing	
1	08/09/2009	08/14/2009	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	08/09/2009	08/14/2009	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	08/09/2009	08/14/2009	IP 71151-EP01	Drill/Exercise Performance	
1	08/09/2009	08/14/2009	IP 71151-EP02	ERO Drill Participation	
1	08/09/2009	08/14/2009	IP 71151-EP03	Alert & Notification System	
			7111111B - BIENNIAL REQUAL INSP WITH P/F RESULTS		4
1	12/14/2009	12/18/2009	IP 7111111B	Licensed Operator Requalification Program	
			71122.03 - PUB RAD SAFETY - REMP		1
1	09/21/2009	09/25/2009	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
1	09/21/2009	09/25/2009	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
			7111108P - INSERVICE INSPECTION		1
1	10/05/2009	10/09/2009	IP 7111108P	Inservice Inspection Activities - PWR	
			TI-172 - TI-172 RCS DISSIMILAR METAL WELDS		1
1	10/13/2009	10/16/2009	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
			7111108P - INSERVICE INSPECTION		1
1	10/19/2009	10/23/2009	IP 7111108P	Inservice Inspection Activities - PWR	
			71121 - OCC RAD SAFETY		1
1	10/19/2009	10/23/2009	IP 7112102	ALARA Planning and Controls	
			71122.01 - PUB RAD SAFETY - RETS		1
1	11/16/2009	11/20/2009	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
1	11/16/2009	11/20/2009	IP 60855	Operation Of An ISFSI	
1	11/16/2009	11/20/2009	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems	
			71121 - OCC RAD SAFETY		1
1	12/07/2009	12/11/2009	IP 7112102	ALARA Planning and Controls	
1	12/07/2009	12/11/2009	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	12/07/2009	12/11/2009	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			TI-177 - MANAGING GAS ACCUMULATION IN ECCS		2
1	01/11/2010	01/15/2010	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	

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

Seabrook
Inspection / Activity Plan
07/01/2009 - 12/31/2010

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			71121 - OCC RAD SAFETY		1
1	01/25/2010	01/29/2010	IP 7112101	Access Control to Radiologically Significant Areas	
1	01/25/2010	01/29/2010	IP 7112102-7112102R	ALARA - Required	
			7111121 - COMPONENT DESIGN BASES INSPECTION		6
1	04/26/2010	04/30/2010	IP 7111121	Component Design Bases Inspection	
1	05/10/2010	05/21/2010	IP 7111121	Component Design Bases Inspection	
			EP EX - EP EXERCISE EVALUATION		4
1	05/03/2010	05/07/2010	IP 7111401	Exercise Evaluation	
1	05/03/2010	05/07/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	05/03/2010	05/07/2010	IP 71151-EP01	Drill/Exercise Performance	
1	05/03/2010	05/07/2010	IP 71151-EP02	ERO Drill Participation	
1	05/03/2010	05/07/2010	IP 71151-EP03	Alert & Notification System	
			71152B - PI&R		4
1	07/26/2010	07/30/2010	IP 71152B	Identification and Resolution of Problems	
1	08/09/2010	08/13/2010	IP 71152B	Identification and Resolution of Problems	
			11/29 EX - INITIAL OPERATOR LICENSING EXAM		5
1	11/01/2010	11/05/2010	U01694	FY11 - SEABROOK INITIAL OPERATOR EXAM	
1	11/29/2010	12/10/2010	U01694	FY11 - SEABROOK INITIAL OPERATOR EXAM	
			7112202 - PUB RAD SAFETY - RADWASTE		1
1	09/27/2010	10/01/2010	IP 7112202	Radioactive Material Processing and Transportation	
1	09/27/2010	10/01/2010	IP 71151	Performance Indicator Verification	
			7112103 - OCC RAD SAFETY - INSTRUMENTS		1
1	11/01/2010	11/05/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
			7112102 - OCC RAD SAFETY - ALARA		1
1	12/06/2010	12/10/2010	IP 7112102-7112102R	ALARA - Required	
1	12/06/2010	12/10/2010	IP 71151	Performance Indicator Verification	

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