



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

March 3, 2010

Mr. Paul Freeman
Vice President, North Region
FPL Energy Seabrook, LLC
Seabrook Nuclear Power Plant
c/o Mr. Michael O'Keefe
P.O. Box 300
Seabrook, NH 03874

SUBJECT: ANNUAL ASSESSMENT LETTER – SEABROOK STATION, UNIT 1
(05000443/2010001)

Dear Mr. Freeman:

On February 9, 2010, the NRC staff completed its performance review of Seabrook Station, Unit 1 (Seabrook). Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 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.

Overall, Seabrook operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter was within the Regulatory Response column of the NRC's Action Matrix, based on all Green performance indicators and one inspection finding having low to moderate significance (White). The finding involved inadequate design control measures during a cooling water flange modification, which resulted in the failure of the B emergency diesel generator in February 2009 (ML092400410)¹. This plant performance was reviewed as part of the quarterly assessment of Seabrook Station, and documented in an assessment follow-up letter (ML093160351)¹.

In response to the White finding and in addition to baseline inspections, we plan to conduct a supplemental inspection using Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area," when your staff notifies us of your readiness for the inspection. The supplemental inspection will be conducted to provide assurance that the root and contributing causes for the finding are understood, that extent of condition and extent of cause are identified, and to provide assurance that the corrective actions are sufficient to prevent recurrence.

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

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2011. 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 mid-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).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact Art Burritt at 610-337-5069 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Lew", written over a horizontal line.

David C. Lew, Director
Division of Reactor Projects

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

cc w/encl: Distribution via ListServe
Seabrook Station Inspection/ Activity Plan

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2011. 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 mid-cycle review.

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Sincerely,
/RA/
 David C. Lew, Director
 Division of Reactor Projects

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Seabrook

Inspection / Activity Plan

01/01/2010 - 06/30/2011

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		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	
		7111121 - COMPONENT DESIGN BASES INSPECTION		7
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		5
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	
		11/29 EX - INITIAL OPERATOR LICENSING EXAM		5
1	10/25/2010 10/29/2010	U01694	FY11 - SEABROOK INITIAL OPERATOR EXAM	
1	11/29/2010 12/10/2010	U01694	FY11 - SEABROOK INITIAL OPERATOR EXAM	
		71124 - OCC RAD SAFETY		1
1	08/16/2010 08/20/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	08/16/2010 08/20/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1	08/16/2010 08/20/2010	IP 71124.04	Occupational Dose Assessment	
		71152B - PI&R		4
1	09/13/2010 09/17/2010	IP 71152B	Identification and Resolution of Problems	
1	09/27/2010 10/01/2010	IP 71152B	Identification and Resolution of Problems	
		71124 - PUB RAD SAFETY - RADWASTE		1
1	09/27/2010 10/01/2010	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1	09/27/2010 10/01/2010	IP 71151	Performance Indicator Verification	
		71124 - OCC RAD SAFETY - INSTRUMENTS		1
1	11/01/2010 11/05/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
		71124 - OCC RAD SAFETY - ALARA & ISFSI		1
1	12/06/2010 12/10/2010	IP 60855	Operation Of An ISFSI	
1	12/06/2010 12/10/2010	IP 71124.04	Occupational Dose Assessment	
1	12/06/2010 12/10/2010	IP 71151	Performance Indicator Verification	
		EP PROGR - EP PROGRAM INSPECTION		1
1	02/28/2011 03/04/2011	IP 7111402	Radiological Environmental Monitoring Program	
1	02/28/2011 03/04/2011	IP 7111403	Emergency Response Organization Augmentation Testing	
1	02/28/2011 03/04/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	02/28/2011 03/04/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	

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

Seabrook

Inspection / Activity Plan

01/01/2010 - 06/30/2011

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		EP PROGR - EP PROGRAM INSPECTION		1
1	02/28/2011 03/04/2011	IP 71151-EP01	Drill/Exercise Performance	
1	02/28/2011 03/04/2011	IP 71151-EP02	ERO Drill Participation	
1	02/28/2011 03/04/2011	IP 71151-EP03	Alert & Notification System	
		7111108P - INSERVICE INSPECTION		1
1	04/04/2011 04/15/2011	IP 7111108P	Inservice Inspection Activities - PWR	
		7112402 - ALARA		1
1	04/25/2011 04/29/2011	IP 71124.02	Occupational ALARA Planning and Controls	

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This report shows only on-site and announced inspection procedures.