



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

September 2, 2008

Mr. Gene St. Pierre  
Site Vice President  
FPL 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 6, 2008, the NRC staff completed its performance review for 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, 2007, through June 30, 2008. 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). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. We also plan to conduct independent spent fuel storage installation inspections.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2009. 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 the 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 that cause us to change this 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. NFP-86

Enclosure: Seabrook Station Inspection/ Activity Plan

cc w/encl:

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R. Backus, Esquire, Backus, Meyer and Solomon, NH  
Town of Exeter, State of New Hampshire  
Board of Selectmen, Town of Amesbury  
S. Comley, Executive Director, We the People of the United States  
R. Shadis, New England Coalition Staff  
M. Metcalf, Seacoast Anti-Pollution League

**Seabrook**  
**Inspection / Activity Plan**  
**08/01/2008 - 12/31/2009**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>ISFSI</b>	<b>- ISFSI INSPECTIONS</b>	<b>1</b>			
1	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants		01/28/2008	10/31/2008	Other Routine
1	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		01/28/2008	10/31/2008	Other Routine
	<b>TRI FIRE</b>	<b>- TRIENNIAL FIRE PROTECTION INSPECTION</b>	<b>3</b>			
1	IP 7111105T	Fire Protection [Triennial]		07/28/2008	08/01/2008	Baseline Inspections
	<b>7111111</b>	<b>- REQUAL INSPECTION WITH P/F RESULTS</b>	<b>3</b>			
1	IP 7111111B	Licensed Operator Requalification Program		12/01/2008	12/05/2008	Baseline Inspections
	<b>7112202</b>	<b>- PUB RAD SAFETY - RADWASTE</b>	<b>1</b>			
1	IP 7112202	Radioactive Material Processing and Transportation		09/29/2008	10/03/2008	Baseline Inspections
	<b>TI 171</b>	<b>- TI 171</b>	<b>4</b>			
1	IP 2515/171	Verification of Site Specific Implementation Of B.5.b Phase 2 & 3 Mitigating Strategies		10/20/2008	10/24/2008	Generic Safety Inspecti
	<b>EP</b>	<b>- EP EXERCISE EVALUATION</b>	<b>6</b>			
1	IP 7111401	Exercise Evaluation		11/03/2008	11/07/2008	EP Baseline Inspection
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		11/03/2008	11/07/2008	EP Baseline Inspection
1	IP 71151-EP01	Drill/Exercise Performance		11/03/2008	11/07/2008	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		11/03/2008	11/07/2008	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		11/03/2008	11/07/2008	Baseline Inspections
	<b>TI 176</b>	<b>- TI 176</b>	<b>1</b>			
1	IP 2515/176	Emergency Diesel Generator Tech Spec Surveillance Requirements Re: Endurance & Margin		10/27/2008	10/31/2008	Generic Safety Inspecti
	<b>7112103</b>	<b>- OCC RAD SAFETY - INSTRUMENTS</b>	<b>1</b>			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		11/03/2008	11/07/2008	Baseline Inspections
	<b>71152B</b>	<b>- PI&amp;R</b>	<b>4</b>			
1	IP 71152B	Identification and Resolution of Problems		11/17/2008	11/21/2008	Baseline Inspections
1	IP 71152B	Identification and Resolution of Problems		12/01/2008	12/05/2008	Baseline Inspections
	<b>71121</b>	<b>- OCC RAD SAFETY</b>	<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		01/26/2009	01/30/2009	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		01/26/2009	01/30/2009	Baseline Inspections
	<b>6/15EXAM</b>	<b>- OPERATOR LICENSING INITIAL EXAMS</b>	<b>4</b>			
1	U01759	FY-09 SEABROOK INITIAL OPERATOR LICENSING EXAM		05/11/2009	05/15/2009	Not Applicable
1	U01759	FY-09 SEABROOK INITIAL OPERATOR LICENSING EXAM		06/15/2009	06/26/2009	Not Applicable
	<b>MODS</b>	<b>- PERMANENT PLANT MODIFICATIONS</b>	<b>3</b>			
1	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications		03/09/2009	03/13/2009	Baseline Inspections
1	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications		03/23/2009	03/27/2009	Baseline Inspections
	<b>EP PROGR</b>	<b>- EP PROGRAM INSPECTION</b>	<b>2</b>			
1	IP 7111402	Alert and Notification System Testing		08/02/2009	08/08/2009	EP Baseline Inspection

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

**Seabrook**  
**Inspection / Activity Plan**  
**08/01/2008 - 12/31/2009**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
<b>EP PROGR - EP PROGRAM INSPECTION</b>			<b>2</b>			
1	IP 7111403	Emergency Response Organization Augmentation Testing		08/02/2009	08/08/2009	EP Baseline Inspection
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		08/02/2009	08/08/2009	EP Baseline Inspection
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		08/02/2009	08/08/2009	EP Baseline Inspection
1	IP 71151-EP01	Drill/Exercise Performance		08/02/2009	08/08/2009	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		08/02/2009	08/08/2009	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		08/02/2009	08/08/2009	Baseline Inspections
<b>7111107T - HEAT SINK INSP</b>			<b>1</b>			
1	IP 7111107T	Heat Sink Performance		08/10/2009	08/14/2009	Baseline Inspections
<b>71122.03 - PUB RAD SAFETY - REMP</b>			<b>1</b>			
1	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative		09/21/2009	09/25/2009	Generic Safety Inspecti
1	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program		09/21/2009	09/25/2009	Baseline Inspections
<b>7111108P - INSERVICE INSPECTION</b>			<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		10/05/2009	10/09/2009	Baseline Inspections
1	IP 7111108P	Inservice Inspection Activities - PWR		10/19/2009	10/23/2009	Baseline Inspections
<b>71121 - OCC RAD SAFETY</b>			<b>1</b>			
1	IP 7112102	ALARA Planning and Controls		10/19/2009	10/23/2009	Baseline Inspections
<b>71122.01 - PUB RAD SAFETY - RETS</b>			<b>1</b>			
1	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative		11/16/2009	11/20/2009	Generic Safety Inspecti
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		11/16/2009	11/20/2009	Baseline Inspections
<b>71121 - OCC RAD SAFETY</b>			<b>1</b>			
1	IP 7112102	ALARA Planning and Controls		12/07/2009	12/11/2009	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		12/07/2009	12/11/2009	Baseline Inspections
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		12/07/2009	12/11/2009	Baseline Inspections

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