



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

August 31, 2007

Mr. Gene St. Pierre
Site Vice President
FPL Energy Seabrook, LLC
Seabrook Station
c/o Mr. James M. Peschel
P.O. Box 300
Seabrook, NH 03874

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -
SEABROOK STATION**

Dear Mr. St. Pierre,

On August 14, 2007, the NRC staff completed its performance review of Seabrook Station for the first half of the calendar year 2007 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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 of 2007 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 inspections to review modifications of the containment sump and alloy 82/182 pressurizer butt welds.

While plant performance for the most recent quarter was within the Licensee Response column of the Action Matrix, Seabrook was within the Regulatory Response column in the third quarter of 2006 due to one White (low to moderate safety significance) PI. Specifically, the Emergency AC Power System PI crossed the Green/White threshold in late August 2006 when both emergency diesel generators (EDGs) became inoperable due to voltage regulator problems. Following repairs of both EDGs in early September 2006, your staff performed a root cause evaluation of the failures that was completed in December 2006. The NRC performed a 95001 supplemental inspection in May 2007. Based on the results of this inspection, we concluded that you have adequately evaluated the causes of the EDG failures and the associated performance deficiencies and implemented appropriate corrective actions. Given your acceptable performance in addressing the causes of the EDG failures, and the PI returning to Green status in the fourth quarter of 2006, the issue will no longer be used in assessing Seabrook Station performance.

G. St. Pierre

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The enclosed inspection plan details the inspections, less those related to security, scheduled through December 31, 2008. 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.

The NRC is currently evaluating the scope and frequency of all the baseline inspection procedures. 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.

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).

Sincerely,

/RA/

Arthur Burritt, Chief
Projects Branch 3
Division of Reactor Projects

Docket No. 50-443
License No. NPF-86

Enclosure: Seabrook Station Inspection/ Activity Plan

cc w/encl:
see next page

cc w/encl:

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Institute of Nuclear Power Operations (INPO)

G. St. Pierre

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DATE	08/24 /07	08/ 27 /07	08/ 27 /07

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Seabrook
Inspection / Activity Plan
07/01/2007 - 12/31/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	7/09+EXM	- INITIAL OPERATOR LICENSING EXAMS	4			
1	U01666	FY07-SEABROOK INITIAL OPERATOR EXAM		07/09/2007	07/13/2007	Not Applicable
	711107	- HEAT SINK INSP	1			
1	IP 7111107B	Heat Sink Performance		07/30/2007	08/03/2007	Baseline Inspections
	71114	- EP PRGM INSP	1			
1	IP 7111402	Alert and Notification System Testing		08/27/2007	08/31/2007	Baseline Inspections
1	IP 7111403	Emergency Response Organization Augmentation Testing		08/27/2007	08/31/2007	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		08/27/2007	08/31/2007	Baseline Inspections
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		08/27/2007	08/31/2007	Baseline Inspections
1	IP 71151-EP01	Drill/Exercise Performance		08/27/2007	08/31/2007	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		08/27/2007	08/31/2007	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		08/27/2007	08/31/2007	Baseline Inspections
	7112203	- PUB RAD SAFETY - REMP	1			
1	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		09/03/2007	09/07/2007	Baseline Inspections
	7112103	- OCC RAD SAFETY - INSTRUMENTS	1			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		09/04/2007	09/07/2007	Baseline Inspections
	7111111B	- L.O. REQUAL. PROG. + P/F REVIEW	3			
1	IP 7111111B	Licensed Operator Requalification Program		11/26/2007	11/30/2007	Baseline Inspections
1	IP 7111111B	Licensed Operator Requalification Program		12/03/2007	12/07/2007	Baseline Inspections
	7112102	- PUB RAD SAFETY - RETS	1			
1	IP 7112102	ALARA Planning and Controls		12/03/2007	12/07/2007	Baseline Inspections
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		12/03/2007	12/07/2007	Baseline Inspections
	7112101	- OCC RAD SAFETY - ACCESS	1			
1	IP 7112101	Access Control to Radiologically Significant Areas		01/28/2008	02/01/2008	Baseline Inspections
	MODS	- MODS AND 50.59	4			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		02/04/2008	02/08/2008	Baseline Inspections
1	IP 7111117B	Permanent Plant Modifications		02/04/2008	02/08/2008	Baseline Inspections
	7112102	- OCC RAD SAFETY - ALARA	1			
1	IP 7112102	ALARA Planning and Controls		04/14/2008	04/18/2008	Baseline Inspections
	7111108P	- INSERVICE INSPECTION	1			
1	IP 7111108P	Inservice Inspection Activities - PWR		04/14/2008	04/18/2008	Baseline Inspections
1	IP 7111108P	Inservice Inspection Activities - PWR		04/21/2008	04/25/2008	Baseline Inspections
	TI-166	- CONTAINMENT SUMP MODIFICATIONS	1			
1	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02		04/21/2008	04/25/2008	Safety Issues

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

Seabrook
Inspection / Activity Plan
07/01/2007 - 12/31/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	71111.12 - MAINTENANCE RULE		1			
1	IP 7111112B	Maintenance Effectiveness		06/16/2008	06/20/2008	Baseline Inspections
	TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION		3			
1	IP 7111105T	Fire Protection [Triennial]		07/14/2008	07/18/2008	Baseline Inspections
1	IP 7111105T	Fire Protection [Triennial]		07/28/2008	08/01/2008	Baseline Inspections
	7112202 - PUB RAD SAFETY - RADWASTE		1			
1	IP 7112202	Radioactive Material Processing and Transportation		09/29/2008	10/03/2008	Baseline Inspections
	7112103 - OCC RAD SAFETY - INSTRUMENTS		1			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		11/03/2008	11/07/2008	Baseline Inspections
	EP - EP EXERCISE EVALUATION		4			
1	IP 7111401	Exercise Evaluation		11/03/2008	11/07/2008	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		11/03/2008	11/07/2008	Baseline Inspections
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
	71152B - PI&R		4			
1	IP 71152B	Identification and Resolution of Problems		11/17/2008	11/21/2008	Baseline Inspections
1	IP 71152B	Identification and Resolution of Problems		12/08/2008	12/12/2008	Baseline Inspections