



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

March 2, 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: ANNUAL ASSESSMENT LETTER - SEABROOK NUCLEAR POWER  
STATION (REPORT 05000443/2007001)**

Dear Mr. St. Pierre:

On February 13, 2007, the U.S. Nuclear Regulatory Commission (NRC) staff completed its performance review of the Seabrook Nuclear Power Station (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, 2006. 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 physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in accordance with 10 CFR 2.390" will include the physical protection 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 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.

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 for the 3<sup>rd</sup> quarter of the assessment cycle due to one White (low to moderate safety significance) PI. Specifically, Seabrook had a White PI for the emergency diesel generator (EDG) Mitigating System Performance Index, Emergency Alternating Current Power System, which crossed the Green/White threshold in late August 2006 when both 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. The NRC performed a special inspection to evaluate the circumstances associated with the event and has scheduled a 95001 supplemental inspection for May 2007. The objective of the supplemental inspection will be to provide

assurance that Seabrook understands the root causes and contributing causes of the failures, identifies the extent of condition, and establishes corrective actions that are sufficient to prevent recurrence.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2008. In addition to the 95001 supplemental inspection and the ROP baseline inspections, we plan to conduct an independent spent fuel storage facility inspection. 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 Paul Krohn at 610-337-5120 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

David C. Lew, Director  
Division of Reactor Projects

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

Enclosure: Seabrook Inspection/ Activity Plan

cc w/encl:

J. A. Stall, FPL Senior Vice President, Nuclear & CNO  
M. Warner, Vice President, Nuclear Support Services  
R. S. Kundalkar, FPL Vice President, Nuclear Engineering  
M. Mashhadi, Senior Attorney, Florida Power & Light Company  
M. S. Ross, Managing Attorney, Florida Power & Light Company  
J. M. Peschel, Manager, Regulatory Programs  
M. Kiley, Plant General Manager, Seabrook Station  
J. Dent, Assistant Plant Manager  
K. Wright, Manager, Nuclear Training, Seabrook Station  
R. Poole, FEMA, Region-I

Office of the Attorney General, Commonwealth of Massachusetts

K. Ayotte, Attorney General, State of New Hampshire

O. Fitch, Deputy Attorney General, State of New Hampshire

D. Harnish, Assistant Attorney General, State of Maine

R. Walker, Director, Radiation Control Program, Dept. of Public Health, Commonwealth of MA

C. Pope, Director, Homeland Security & Emergency Management, State of New Hampshire

J. Giarrusso, MEMA, Commonwealth of Massachusetts

D. O'Dowd, Administrator, Radiological Health Section, DPHS, DHHS, State of New Hampshire

Administrator, Bureau of Radiological Health, State of New Hampshire

J. Roy, Director of Operations, Massachusetts Municipal Wholesale Electric Company

T. Crimmins, Polestar Applied Technology

R. Backus, Esquire, Backus, Meyer and Solomon, New Hampshire

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**  
**01/01/2007 - 06/30/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>ISFSI - ISFSI INSP</b>		<b>2</b>			
1	IP 60854	Preoperational Testing Of An ISFSI		02/12/2007	02/16/2007	Other Routine
	<b>7112101 - OCC RAD SAFETY</b>		<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		03/05/2007	03/09/2007	Baseline Inspections
	<b>7/09+EXM - LICENSED OPERATOR INITIAL EXAMS</b>		<b>4</b>			
1	U01666	FY07-SEABROOK INITIAL OPERATOR EXAM		06/11/2007	06/15/2007	Not Applicable
1	U01666	FY07-SEABROOK INITIAL OPERATOR EXAM		07/09/2007	07/13/2007	Not Applicable
	<b>7111121 - CDBI (COMPONENT DESIGN BASES INSPECTION)</b>		<b>6</b>			
1	IP 7111121	Component Design Bases Inspection		03/19/2007	03/23/2007	Baseline Inspections
1	IP 7111121	Component Design Bases Inspection		04/02/2007	04/06/2007	Baseline Inspections
1	IP 7111121	Component Design Bases Inspection		04/16/2007	04/20/2007	Baseline Inspections
1	IP 7111121	Component Design Bases Inspection		04/23/2007	04/27/2007	Baseline Inspections
	<b>7112201 - PUB RAD SAFETY - RETS</b>		<b>1</b>			
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		04/09/2007	04/13/2007	Baseline Inspections
	<b>7111107 - HEAT SINK INSP</b>		<b>1</b>			
1	IP 7111107B	Heat Sink Performance		05/14/2007	05/18/2007	Baseline Inspections
	<b>95001 - SUPPLEMENTAL INSP FOR WHITE EDG MSPI</b>		<b>1</b>			
1	IP 95001	Supplemental Inspection For One Or Two White Inputs In A Strategic Performance Area		05/14/2007	05/18/2007	Supplemental Program
	<b>71114 - EP PRGM INSP</b>		<b>1</b>			
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
	<b>7111111B - L.O. REQUAL. PROG. + P/F REVIEW</b>		<b>3</b>			
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
	<b>7112203 - PUB RAD SAFETY - REMP</b>		<b>1</b>			
1	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Pr		09/03/2007	09/07/2007	Baseline Inspections
	<b>7112103 - OCC RAD SAFETY - INSTRUMENTS</b>		<b>1</b>			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		09/04/2007	09/07/2007	Baseline Inspections
	<b>7112102 - OCC RAD SAFETY - ALARA</b>		<b>1</b>			
1	IP 7112102	ALARA Planning and Controls		12/03/2007	12/07/2007	Baseline Inspections

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

**Seabrook**  
**Inspection / Activity Plan**  
**01/01/2007 - 06/30/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>7112101 - OCC RAD SAFETY - ACCESS</b>		<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		01/28/2008	02/01/2008	Baseline Inspections
	<b>MODS - MODS AND 50.59</b>		<b>4</b>			
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
	<b>7112102 - OCC RAD SAFETY - ALARA</b>		<b>1</b>			
1	IP 7112102	ALARA Planning and Controls		04/14/2008	04/18/2008	Baseline Inspections
	<b>7111108P - INSERVICE INSPECTION</b>		<b>1</b>			
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
	<b>TI-166 - CONTAINMENT SUMP MODIFICATIONS</b>		<b>1</b>			
1	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02]		04/28/2008	05/02/2008	Safety Issues
	<b>7112202 - PUB RAD SAFETY - RADWASTE</b>		<b>1</b>			
1	IP 7112202	Radioactive Material Processing and Transportation		05/12/2008	05/16/2008	Baseline Inspections
	<b>71111.12 - MAINTENANCE RULE</b>		<b>1</b>			
1	IP 7111112B	Maintenance Effectiveness		06/16/2008	06/20/2008	Baseline Inspections

evaluate the circumstances associated with the event and has scheduled a 95001 supplemental inspection for May 2007. The objective of the supplemental inspection will be to provide assurance that Seabrook understands the root causes and contributing causes of the failures, identifies the extent of condition, and establishes corrective actions that are sufficient to prevent recurrence.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2008. In addition to the 95001 supplemental inspection and the ROP baseline inspections, we plan to conduct an independent spent fuel storage facility inspection. 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 Paul Krohn at 610-337-5120 with any questions you may have regarding this letter or the inspection plan.

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

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

Enclosure: Seabrook Inspection/ Activity Plan

cc w/encl:

J. A. Stall, FPL Senior Vice President, Nuclear & CNO  
 M. Warner, Vice President, Nuclear Support Services  
 R. S. Kundalkar, FPL Vice President, Nuclear Engineering  
 M. Mashhadi, Senior Attorney, Florida Power & Light Company  
 M. S. Ross, Managing Attorney, Florida Power & Light Company  
 J. M. Peschel, Manager, Regulatory Programs  
 M. Kiley, Plant General Manager, Seabrook Station  
 J. Dent, Assistant Plant Manager  
 K. Wright, Manager, Nuclear Training, Seabrook Station  
 R. Poole, FEMA, Region-I  
 Office of the Attorney General, Commonwealth of Massachusetts  
 K. Ayotte, Attorney General, State of New Hampshire  
 O. Fitch, Deputy Attorney General, State of New Hampshire  
 D. Harnish, Assistant Attorney General, State of Maine  
 R. Walker, Director, Radiation Control Program, Dept. of Public Health, Commonwealth of MA

C. Pope, Director, Homeland Security & Emergency Management, State of New Hampshire  
 J. Giarrusso, MEMA, Commonwealth of Massachusetts  
 D. O'Dowd, Administrator, Radiological Health Section, DPHS, DHHS, State of New Hampshire  
 Administrator, Bureau of Radiological Health, State of New Hampshire  
 J. Roy, Director of Operations, Massachusetts Municipal Wholesale Electric Company  
 T. Crimmins, Polestar Applied Technology  
 R. Backus, Esquire, Backus, Meyer and Solomon, New Hampshire  
 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

**SUNSI Review Complete:** PGK (Reviewer's Initials)

DOCUMENT NAME: S:\ROP-7 EOC Review\2006 ROP-7 Annual Assessment Letters\PDF Merged files\2006 EOC Seabrook Assessment LetterFinal.wpd

After declaring this document "An Official Agency Record" it will be released to the Public.

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	RI/DRP	RI/DRP	RI/DRP
NAME	BNorris/BSN	PKrohn/PGK	DLew/DCL
DATE	2/ 27/07	2/27/07	03/02/07