



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

September 1, 2010

Mr. Paul Freeman
Site Vice President
Seabrook Nuclear Power Plant
NextEra Energy Seabrook, LLC.
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. Freeman:

On August 10, 2010, 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, 2009, through June 30, 2010. 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 Regulatory Response column of the NRC's Action Matrix, based on one White inspection finding with low to moderate safety significance, all other 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). The White finding, for which the final significance determination was documented in a letter dated November 12, 2009, (ML093160351)¹, involved the failure to establish adequate design control measures to modify a cooling water flange on the B emergency diesel generator (EDG), which led to the failure of the diesel during a test on February 25, 2009.

You performed an evaluation and implemented corrective actions to address the issues associated with this White finding. On June 7, the NRC initiated a supplemental inspection, in accordance with Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area." to review your actions to address the White finding. During this inspection, we communicated to you several significant weaknesses in your evaluation, extent of condition and cause, and corrective actions. You initiated prompt actions to correct these weaknesses, and informed us of those actions on June 22. We subsequently independently assessed the adequacy of those additional corrective actions, completing our inspection on June 30, as documented in NRC Inspection Report 05000443/20100007 (ML102250493)¹. Based on results of IP 95001 inspection, this finding is now closed and will no longer be considered for plant assessment purposes effective July 1, 2010. We communicated the results

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

of our 95001 inspection to you during a Regulatory Performance meeting that was conducted on June 30, 2010, and as of July 1, 2010, Seabrook returned to the Licensee Response column of the NRC's Action Matrix. Therefore, we plan to conduct reactor oversight (ROP) baseline inspections at your facility for the remainder of 2010.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 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 end-of-cycle review.

As you may know, an Operational Safety Review Team (OSART), performed by senior staff members from the International Atomic Energy Agency (IAEA), will be conducted at Seabrook in June 2011. The scope of the OSART evaluation may encompass portions of the ROP baseline inspection program. NRC Inspection Manual Chapter 2515, Section 08.05, "Baseline Inspection Credit for Operational Safety Review Team Effort" allows a reduction in baseline inspection in those areas that are determined to overlap with the OSART review. If the results of this 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 Arthur Burritt 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,


James W. Clifford, Acting Director
Division of Reactor Projects

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

Enclosure: Seabrook Station Inspection/Activity Plan

cc w/encl: Distribution via ListServ

the results of our 95001 inspection to you during a Regulatory Performance meeting that was conducted on June 30, 2010, and as of July 1, 2010, Seabrook returned to the Licensee Response column of the NRC's Action Matrix. Therefore, we plan to conduct reactor oversight (ROP) baseline inspections at your facility for the remainder of 2010.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 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 end-of-cycle review.

As you may know, an Operational Safety Review Team (OSART), performed by senior staff members from the International Atomic Energy Agency (IAEA), will be conducted at Seabrook in June 2011. The scope of the OSART evaluation may encompass portions of the ROP baseline inspection program. NRC Inspection Manual Chapter 2515, Section 08.05, "Baseline Inspection Credit for Operational Safety Review Team Effort" allows a reduction in baseline inspection in those areas that are determined to overlap with the OSART review. If the results of this 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 Arthur Burritt 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/
James W. Clifford, Acting Director
Division of Reactor Projects

Docket Nos. 50-443
License Nos. NPF-86
Enclosure: Seabrook Station Inspection/Activity Plan

cc w/encl: Distribution via ListServ

Distribution: See attached page

ML102440395

SUNSI REVIEW COMPLETED: LC (Reviewer's Initials)

DOCUMENT NAME: S:\ROP-11 MID-CYCLE REVIEW\BRANCH 3\SEABROOK MID-CYCLE LETTER2010 REV2.DOCX

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

To receive a copy of this document, indicate in box: "C" = Copy w/o attachment/enclosure, "E" = Copy w/ attachment/enclosure "N"=No copy

OFFICE <i>mmt</i>	RI/DRP	RI/DRP	RI/DRP	RI/DRP	
NAME	WRaymond/ LC for	LCline/ LC	ABurritt/ ALB	JClifford/ JWC	
DATE	08/ 25 /10	08/ 31/10	08/31 /10	09/01 /10	

OFFICIAL RECORD COPY

Seabrook
Inspection / Activity Plan
 07/01/2010 - 12/31/2011

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			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	
			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 - 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	
			71124 - PUB RAD SAFETY - RADWASTE		1
1	09/20/2010	09/24/2010	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1	09/20/2010	09/24/2010	IP 71151	Performance Indicator Verification	
			71124 - OCC RAD SAFETY - INSTRUMENTS		1
1	11/01/2010	11/05/2010	IP 71124.05	Radiation Monitoring Instrumentation	
			TI 179 - TI 179 NSTS VERIFICATION		1
1	11/08/2010	11/12/2010	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
			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	
			71124 - OCC RAD SAFETY		1
1	01/24/2011	01/28/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	01/24/2011	01/28/2011	IP 71124.02	Occupational ALARA Planning and Controls	
			EP PROGR - EP PROGRAM INSPECTION		1
1	02/28/2011	03/04/2011	IP 7111402	Alert and Notification System Testing	
1	02/28/2011	03/04/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
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	
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	
			711108P - INSERVICE INSPECTION		1
1	04/04/2011	04/15/2011	IP 711108P	Inservice Inspection Activities - PWR	

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

Seabrook
Inspection / Activity Plan
 07/01/2010 - 12/31/2011

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		71124 - OCC RAD SAFETY		1
1	04/25/2011 04/29/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/25/2011 04/29/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/25/2011 04/29/2011	IP 71124.04	Occupational Dose Assessment	
		7112402 - ALARA		1
1	04/25/2011 04/29/2011	IP 71124.02	Occupational ALARA Planning and Controls	
		TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION		4
1	07/25/2011 07/29/2011	IP 7111105T	Fire Protection [Triennial]	
1	08/08/2011 08/12/2011	IP 7111105T	Fire Protection [Triennial]	
		71124 - REMP		1
1	09/12/2011 09/16/2011	IP 71124.07	Radiological Environmental Monitoring Program	
		711111B - SEABROOK REQUAL INSP W/ P/F RESULTS		3
1	12/05/2011 12/09/2011	IP 7111111B	Licensed Operator Requalification Program	
		71124 - EFFLUENTS		1
1	11/28/2011 12/02/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	

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