

June 5, 2006

Mr. Gene St. Pierre
Site Vice President
FPL Energy Seabrook, LLC
Seabrook Station
P.O. Box 300
Seabrook, NH 03874

SUBJECT: SEABROOK STATION - NRC EVALUATED EMERGENCY PREPAREDNESS
EXERCISE INSPECTION REPORT 05000443/2006011

Dear Mr. St. Pierre:

The enclosed report documents an inspection at the Seabrook Station, which evaluated the performance of your emergency response organization during the April 11, 2006, exercise and the post-exercise critique conducted on April 12, 2006, as specified in the reactor oversight program. The inspectors discussed the preliminary findings of this inspection with Mr. Michael Kiley, Seabrook Station Plant Manager, and other members of your staff on April 12, 2006. A final exit meeting was conducted via a telephone conference with your staff on April 24, 2006.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed emergency plan procedures, previous drill reports, observed the exercise activities, and interviewed selected emergency preparedness personnel from your staff.

Based on the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure and your response (if any) will be 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/

Raymond K. Lorson, Chief
Plant Support Branch 1
Division of Reactor Safety

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

Enclosure: Inspection Report Nos. 05000443/2006011
w/Attachment: Supplemental Information

cc w/encl:

J. A. Stall, FPL Senior Vice President, Nuclear & CNO
J. M. Peschel, Manager - Regulatory Programs
M. Kiley, Plant General Manager - Seabrook Station
J. Dent, Assistant Plant Manager
R. S. Kundalkar, FPL Vice President - Nuclear Engineering
D. G. Roy, Manager, Nuclear Training - Seabrook Station
Office of the Attorney General, Commonwealth of Massachusetts
P. McLaughlin, Attorney General, State of New Hampshire
P. Brann, Assistant Attorney General, State of Maine
M. S. Ross, Attorney, Florida Power & Light Company
R. Walker, Director, Dept. of Public Health, Commonwealth of Massachusetts
B. Cheney, Director, Bureau of Emergency Management
C. McCombs, Director, MEMA
Health Physicist, Office of Community & Public Health, 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
Board of Selectmen
S. Comley, Executive Director, We the People of the United States
R. Shadis, New England Coalition Staff
M. Metcalf, Seacoast Anti-Pollution League

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U. S. NUCLEAR REGULATORY COMMISSION REGION I
REGION I

Docket Nos: 50-443

License Nos: NPF-86

Report Nos: 05000443/2006011

Licensee: Florida Power & Light Energy Seabrook, LLC (FPL)

Facility: Seabrook Station, Unit 1

Location: Post Office Box 300
Seabrook, New Hampshire 03874

Dates: April 10-12, 2006

Inspectors: S. Barr, Senior Emergency Preparedness Inspector (Lead)
J. Furia, Senior Radiation Specialist
G. Hunegs, Senior Resident Inspector (FitzPatrick Nuclear Generating
Station)
D. Jackson, Senior Project Engineer

Approved by: Raymond K. Lorson, Chief
Plant Support Branch 1
Division of Reactor Safety

Enclosure

SUMMARY OF FINDINGS

IR 05000443/2006011; 04/10/2006-04/24/2006; Seabrook Station Unit 1; Emergency Preparedness Exercise; Emergency Preparedness Performance Indicators.

This inspection was conducted by four region-based inspectors. No findings of significance were identified. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-5949, "Reactor Oversight Process," Revision 3, dated August 2000.

A. NRC-Identified Findings

Cornerstone: Emergency Preparedness

None

B. Licensee-Identified Findings

None

Report Details

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness (EP)

1EP1 Exercise Evaluation (71114.01 - 1 Sample)

a. Inspection Scope

Prior to the exercise, an in-office review was conducted of the exercise objectives and scenario submitted to the NRC to determine if the exercise would test major elements of the emergency plan as required by 10 CFR 50.47(b)(14). The evaluation of the licensee's performance during the exercise is described below. Overall, this inspection activity represents the completion of one sample on a biennial cycle.

The exercise evaluation consisted of the following review and assessment:

- The adequacy of Seabrook's performance in the biennial full-participation exercise regarding the implementation of the risk-significant planning standards (RSPS) in 10 CFR 50.47 (b)(4), (5), (9) & (10) which are emergency classification, offsite notification, radiological assessment, and protective action recommendations, respectively.
- The overall adequacy of Seabrook's emergency response facilities with regard to NUREG-0696, "Functional Criteria for Emergency Response Facilities," and Emergency Plan commitments. The facilities assessed were the control room simulator, the Technical Support Center (TSC), the Operations Support Center (OSC), and the Emergency Operations Facility (EOF).
- Other performance areas, such as, the emergency response organization's (ERO's) recognition of abnormal plant conditions, command and control, intra- and inter-facility communications, prioritization of mitigation activities, utilization of repair and field monitoring teams, interface with offsite agencies, staffing and procedure adequacy, and the overall implementation of the emergency plan and its implementing procedures.
- Past performance issues from the last NRC exercise report and Seabrook's drill reports to determine effectiveness of corrective actions as demonstrated during this exercise to ensure compliance with 10 CFR 50.47(b)(14).
- The post-exercise critique to evaluate Seabrook's self-assessment of its ERO performance during the exercise and to ensure compliance with 10 CFR 50, Appendix E.IV.F.2.g.

The inspectors reviewed the documents listed in Attachment 1 to this report.

Enclosure

b. Findings

No findings of significance were identified.

4. OTHER ACTIVITIES (OA)

40A1 Performance Indicator (PI) Verification (71151- 3 Samples)

a. Inspection Scope

The inspectors reviewed data for the EP PIs which are: (1) Drill and Exercise Performance (DEP); (2) ERO Drill Participation; and (3) Alert and Notification System (ANS) Reliability. The inspectors reviewed supporting documentation from drills and tests from the third and fourth quarters of 2005, and the first quarter of 2006, to verify the accuracy of the reported data. The review of these performance indicators was conducted in accordance with NRC Inspection Procedure 71151. The acceptance criteria used for the review were 10 CFR 50.9 and NEI 99-02, Revision 2, "Regulatory Assessment Performance Indicator Guidelines." This inspection activity represented the completion of three samples on an annual cycle.

b. Findings

No findings of significance were identified.

40A6 Meetings, including Exit

The inspectors presented the inspection results to Mr. M. Kiley, Seabrook Station Plant Manager, and other members of the licensee's staff at the conclusion of the inspection on April 12, 2006. The licensee had no objections to the NRC observations. No proprietary information was provided to the inspectors during this inspection.

ATTACHMENT

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee Personnel

M. Kiley, Plant Manager
S. Perkins-Grew, Emergency Preparedness Manager
D. Young, Sr. Nuclear Analyst
M. O'Keefe, Regulatory Compliance Supervisor

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

Opened, Closed, Discussed

None

LIST OF DOCUMENTS REVIEWED

Section 1EP1: Exercise Evaluation

FPL Seabrook LLC Emergency Plan
Emergency Plan Implementing Procedures
Combined Functional Drill 05-01 Final Report
Combined Functional Drill 05-02 Final Report
Combined Functional Drill 06-01 Final Report
Combined Functional Drill 06-02 Final Report

The CR numbers captured issues from the April 11, 2006 Exercise:

06-04269	Simulator SCR: the STA/BOP station on the MPCS could not run	ODPS.
06-04271	Simulator SCR: a ISOKINETIC FLOW Low condition occurred on the WRGM while only Bus E5 was powered from the DG.	
06-04272	During the simulator scenario, emergency bus power was lost to bus 6 and crew asked if more procedural guidance in ES-1.3 is necessary to locally align deenergized ECCS valves to establish proper suction path alignments.	
06-04274	Simulator SCR: two valves did not indicate closed through their D-Point's, which caused the MPCS to apparently see them as open, creating a situation where it appeared a full Phase Isolation was not achieved and resulted in what appeared to be a valid FR-Z.1 condition for incomplete Phase A Isolation.	
06-04343	The Containment (Z) Critical Safety Function Status Tree may not be accurately evaluated by the MPCS during certain loss of AC power events.	

- 06-04344 Request to the Regulatory Compliance Department to determine specific implementing requirements and expectations associated with invocation of 10 CFR 50.54(x) and (y), and requests for a NOED during a declared emergency.
- 06-04356 Develop a standard emergency recovery plan template for inclusion in ER 3.1 and ER 3.3. List the tasks/functions/assignments to be considered such that these can be addressed, modified or omitted based on the emergency events.
- 06-04358 Communication issues identified at the Emergency Operating Facility during the 2006 Emergency Preparedness Graded Exercise.
- 06-04360 Investigate options for establishing an open communications link between the Control Room, TSC, OSC, CAS and the EOF during an emergency. This will allow timelier transmittal of key information to the EOF.
- 06-04375 This Condition Report documents OE from the OSC in the 2006 Exercise. All items were reviewed in the post-exercise facility critique.
- 06-04378 This CR documents comments from the 2006 EP Exercise from the EOF.
- 06-04400 Media Center facility comments from the 2006 Exercise.
- 06-0-4414 Perform and document a comparison of radiological assessment results using METPAC and RASCAL. This information would be helpful at the EOF.
- 06-04462 Request for Training Department to provide an overview of NRC emergency response roles and responsibilities during next cycle of ERO requal training.
- 06-04475 This condition report documents facility and equipment comments from the TSC critique of performance in the 2006 Exercise.
- 06-04838 Incorporate guidance for taking a procedure deviation into appropriate procedures contained in the Station Emergency Response Manual (SSER).

Section 40A1:Performance Indicator Verification

EPDP-03 Emergency Preparedness Performance Indicators, Rev. 14

LIST OF ACRONYMS

ANS	Alert and Notification System
CFR	Code of Federal Regulations
CR	Condition Report
DEP	Drill and Exercise Performance
ERO	Emergency Response Organization
EOF	Emergency Operations Facility
EP	Emergency Preparedness
ERO	Emergency Response Organization
FPL	Florida Power and Light
NRC	Nuclear Regulatory Commission
OSC	Operations Support Center
PI	Performance Indicator
RSPS	Risk Significant Planning Standard
TSC	Technical Support Center