



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

November 16, 2009

Mr. Charles G. Pardee
Senior Vice President, Exelon Generation Company, LLC
President and Chief Nuclear (CNO), Exelon Nuclear
4300 Winfield Rd
Warrenville, IL 60555

SUBJECT: OYSTER CREEK NUCLEAR GENERATING STATION – NRC EVALUATED
EMERGENCY PREPAREDNESS EXERCISE – INSPECTION REPORT NO.
05000219/2009502

Dear Mr. Pardee:

On October 8, 2009, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection of the October 6, 2009, evaluated emergency preparedness exercise at your Oyster Creek Nuclear Generating Station. The enclosed inspection report documents the inspection results, which were discussed on October 8, 2009, with Mr. Pete Orphanos, Plant Manager, and other members of your staff.

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 selected procedures and records, observed activities, and interviewed personnel.

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 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).

Sincerely,

/RA/

James A. Trapp, Chief
Plant Support Branch 1
Division of Reactor Safety

Docket No. 50-219
License No. DPR-16

Enclosure: NRC Inspection Report 05000219/2009502

cc w/encl: Distribution via ListServ

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SUNSI Review Complete: DMS (Reviewer's Initials)

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U.S. NUCLEAR REGULATORY COMMISSION

REGION I

Docket No.: 05000219

License No.: DPR-16

Report No.: 05000219/2009502

Licensee: Exelon Generation Company, LLC (Exelon)

Facility: Oyster Creek Nuclear Generating Station (Oyster Creek)

Location: Forked River, New Jersey

Dates: October 5-8, 2009

Inspectors: D. Silk, Sr. Operations Engineer, DRS, Region I (Lead)
J. Kulp, Sr. Resident Inspector – Oyster Creek, DRP, Region I
R. Rolph, Health Physicist, DRS, Region I
C. Crisden, Emergency Preparedness Inspector, DRS, Region I
B. Yip, Physical Security Inspector, DRS, Region I (Training)

Approved By: James A. Trapp, Chief
Plant Support Branch 1
Division of Reactor Safety

SUMMARY OF FINDINGS

IR 05000219/2009502; 10/05/2009-10/08/2009; Oyster Creek Nuclear Generating Station; Exercise Evaluation; Emergency Action Level and Emergency Plan Changes; Emergency Preparedness Performance Indicators.

This was an announced inspection conducted by three region-based inspectors and one resident inspector. No findings of significance were identified. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 4, dated December 2006.

Cornerstone: Emergency Preparedness

A. NRC-Identified and Self-Revealing Findings

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 October 6, 2009, emergency preparedness exercise, the NRC inspectors conducted an in-office review of the exercise objectives and scenario, which Exelon had submitted to the NRC, to determine if the exercise would test major elements of the Oyster Creek Emergency Plan as required by 10 CFR 50.47(b)(14). This overall exercise inspection activity represented the completion of one sample on a biennial cycle.

The exercise evaluation consisted of the following review and assessment:

- The adequacy of Exelon's performance in the biennial full-participation exercise regarding the implementation of the risk-significant planning standards (RSPS) described in 10 CFR 50.47(b)(4), (5), (9), and (10), which are: emergency classification; offsite notification; radiological assessment; and protective action recommendations, respectively.
- The overall adequacy of Exelon's Oyster Creek 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, Operations Support Center (OSC), Technical Support Center (TSC), Emergency Operations Facility (EOF), and Joint Information Center (JIC).
- A review of other performance areas, such as: the Oyster Creek emergency response organization's (ERO's) recognition of abnormal plant conditions; command and control; intra- and inter-facility communications; prioritization of mitigating 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.
- A review of past performance issues from the last NRC Oyster Creek exercise inspection report and Exelon's Oyster Creek EP drill reports, to determine the effectiveness of licensee corrective actions as demonstrated during the October 6, 2009, exercise and to ensure compliance with 10 CFR 50.47(b)(14).
- The licensee's post-exercise critiques, to evaluate Exelon's self-assessment of its ERO performance during the October 6, 2009, exercise and to ensure compliance with 10 CFR 50, Appendix E, Section IV.F.2.g.

The inspectors reviewed the documents listed in the attachment to this report.

b. Findings

No findings of significance were identified.

1EP4 Emergency Action Level (EAL) and Emergency Plan Changes (71114.04 – 1 Sample)

a. Inspection Scope

Since the last NRC inspection of this program area, in October 2008, the licensee implemented revisions to various emergency preparedness implementing procedures. Exelon had determined that, in accordance with 10 CFR 50.54(q), any changes made to the implementing procedures, had not resulted in any decrease in effectiveness of the Plan, and that the revisions continued to meet the requirements of 10 CFR 50.47(b) and Appendix E to 10 CFR 50. The inspectors confirmed no EAL changes had been made since October 2008, and conducted a sampling review of the changes to the emergency plan implementing procedures, to evaluate for any potential decreases in effectiveness of the Emergency Plan per 10 CFR 50.54(q). The inspectors reviewed the documents listed in the attachment to this report. This review was not documented in an NRC Safety Evaluation Report and does not constitute formal NRC approval of the changes. Therefore, these changes remain subject to future NRC inspection in their entirety.

b. Findings

No findings of significance were identified.

4. **OTHER ACTIVITIES (OA)**

4OA1 Performance Indicator (PI) Verification (71151 – 3 Samples)

a. Inspection Scope

The inspectors reviewed data for the Oyster Creek EP PIs, which are: (1) Drill and Exercise Performance (DEP); (2) Emergency Response Organization (ERO) Drill Participation; and, (3) Alert and Notification System (ANS) Reliability. The last NRC EP inspection at Oyster Creek was conducted in the fourth quarter of 2008, so the inspectors reviewed supporting documentation from EP drills, training records, and equipment tests from the fourth calendar quarter of 2008 and the first three quarters of 2009, to verify the accuracy of the reported PI data. The review of these PIs was conducted in accordance with NRC Inspection Procedure 71151, using the acceptance criteria documented in NEI 99-02, "Regulatory Assessment Performance Indicator Guidelines," Revision 5.

This inspection activity represented the completion of three samples on an annual cycle.

b. Findings

No findings of significance were identified.

4OA6 Meetings, Including Exit

On October 8, 2009, the inspectors presented the results of this inspection to Mr. P. Orphanos, Plant Manager, and other members of the Exelon staff. No proprietary information was provided to the inspectors during this inspection.

ATTACHMENT
SUPPLEMENTAL INFORMATION
KEY POINTS OF CONTACT

Licensee Personnel

T. Farenga, Emergency Preparedness Manager, Oyster Creek
V. Cwietniewicz, Emergency Preparedness Manger Exelon Mid-Atlantic
S. Mannix, Emergency Preparedness Specialist Exelon
P. Orphanos, Plant Manager, Oyster Creek

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

None

LIST OF DOCUMENTS REVIEWED

Section 1EP1: Exercise Evaluation

Oyster Creek Generation Station Emergency Preparedness Biennial Exercise Manual
NRC Inspection Report 05000219/2007502
OCGS 2007 Graded Exercise Evaluation Report, September 18, 2007
OCGS, November 7, 2007, Emergency Preparedness Integrated Drill Report
OCGS, August 13, 2008, Emergency Preparedness Integrated Drill Report

Section 1EP4: Emergency Action Level and Emergency Plan Changes

10CFR50.54 (q) screenings and evaluations (from October 2008 to 2009):
09-17, 09-24, 09-57, 09-60, 09-61, 09-62, 09-63, 09-64, 09-65, 09-66, 09-67, 09-68, 09-69,
09-70, 09-71, 09-72, 09-75, 09-76

Section 4OA1: Performance Indicator Verification

ERO Drill Participation PI data, October 2008 – September 2009
Alert Notification System PI data, October 2008 – September 2009
DEP PI data, October 2008 – September 2009

LIST OF ACRONYMS

ANS	Alert Notification System
CR	Condition Report
DEP	Drill and Exercise Performance
EAL	Emergency Action Level
EOF	Emergency Operations Facility
EP	Emergency Preparedness
ERO	Emergency Response Organization
JIC	Joint Information Center
NEI	Nuclear Energy Institute
NRC	Nuclear Regulatory Commission
OSC	Operations Support Center
PI	Performance Indicator
RSPS	Risk Significant Planning Standard
TSC	Technical Support Center