

May 4, 2012

Mr. Michael J. Pacilio Senior Vice President, Exelon Generation Company, LLC President and Chief Nuclear Officer, Exelon Nuclear 4300 Winfield Rd. Warrenville, IL 60555

SUBJECT: PEACH BOTTOM ATOMIC POWER STATION – NRC EVALUATED EMERGENCY PREPAREDNESS EXERCISE – INSPECTION REPORT NO. 05000277/2012503 AND 05000278/2012503

Dear Mr. Pacilio:

On March 29, 2012, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection of the March 27, 2012, evaluated emergency preparedness exercise at your Peach Bottom Atomic Power Station. The enclosed inspection report documents the inspection results, which were discussed on March 29, 2012, with Mr. G. Stathes, Peach Bottom 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.

Based on the results of this inspection, no findings 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, Agencywide Documents Access and Management 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,

gmJrapp

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

Docket Nos. 50-277, 50-278 License Nos. DPR-44, DPR 56 Mr. Michael J. Pacilio Senior Vice President, Exelon Generation Company, LLC President and Chief Nuclear Officer, Exelon Nuclear 4300 Winfield Rd. Warrenville, IL 60555

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Sincerely,

/RA/

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

Docket Nos. 50-277, 50-278 License Nos. DPR-44, DPR 56

DOCUMENT NAME: G:\DRS\Plant Support Branch 1\Barr\EP Ex12 Peach Bottom\PB EP EX 2012 Report.docx ADAMS ACCESSION NUMBER: ML12128A107

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OFFICE	RI/DRS	RI/DRS	RI/DRS		
NAME	SBarr	PKrohn	JTrapp		
DATE	5/7/12	5/4/12	5/4/12		

OFFICIAL RECORD COPY

M. Pacilio

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Enclosure:

NRC Inspection Report No. 05000277/2012503 and 05000278/2012503

<u>cc w/encl</u>:

G. Cannon, Director, PA Emergency Management Agency (PEMA) and Office of Homeland Security Advisor

R. Ayers, Deputy Mgr., Harford County Div. of Emergency Operations

S. Ayers, Emergency Planner, Harford County Div. of Emergency Operations

R. Brooks, Director, Cecil County Dept. of Emergency Services

D. Hammons, RAC, FEMA Region III

<u>cc w/encl</u>: Distribution via ListServ

M. Pacilio

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Distribution w/encl: W. Dean, RA D. Lew, DRA D. Roberts, DRP J. Clifford, DRP C. Miller, DRS P. Wilson, DRS P. Krohn, DRP	(via E-mail) (R1ORAMAIL Resource) (R1ORAMAIL Resource) (R1DRPMAIL Resource) (R1DRPMail Resource) (R1DRSMail Resource) (R1DRSMail Resource)			
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M. McCoppin, RI OEDO				
RidsNrrPMPeachBottom Resource				
RidsNrrDorlLpl1-2 Resource				
ROPreports Resource				
D. Bearde, DRS				
S. Barr, DRS				
J. Trapp, DRS				
R. Kahler, NSIR/EPD				

S. LaVie, NSIR/EPD

U.S. NUCLEAR REGULATORY COMMISSION

REGION I

Docket Nos:	50-277, 50-278
License Nos:	DPR-44, DPR-56
Report Nos:	05000277/2012503, 05000278/2012503
Licensee:	Exelon Generation Company, LLC
Facility:	Peach Bottom Atomic Power Station, Units 2 and 3
Location:	Delta, Pennsylvania
Dates:	March 26 – March 29, 2012
Inspectors:	 S. Barr, Sr. Emergency Preparedness Inspector, DRS, Region I (Lead) S. LaVie, Sr. Emergency Preparedness Specialist, NSIR E. Miller, Project Engineer, DRP, Region I C. Crisden, Emergency Preparedness Inspector, DRS, Region I K. Hussar, Physical Security Inspector, DRS, Region I (Training) C. Lally, Operations Engineer, DRS, Region I (Training)
Approved By:	James M. Trapp, Chief Plant Support Branch 1 Division of Reactor Safety

Enclosure

SUMMARY OF FINDINGS

IR 05000277/2012503, 05000278/2012503; 3/26/2012-3/29/2012; Peach Bottom Atomic Power Station; Exercise Evaluation; Emergency Preparedness Performance Indicators.

This was an announced inspection conducted by three region-based inspectors and one headquarter-based 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

No findings were identified.

- 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 March 27, 2012, 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 Peach Bottom 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 Peach Bottom 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, Technical Support Center (TSC), Emergency Operations Facility (EOF), and Joint Information Center (JIC).
- A review of other performance areas, such as: the Peach Bottom 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 Peach Bottom exercise inspection report and Exelon's Peach Bottom EP drill reports, to determine the effectiveness of licensee corrective actions as demonstrated during the March 27, 2012, 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 March 27, 2012, exercise and to ensure compliance with 10 CFR 50, Appendix E, Section IV.F.2.g.

Enclosure

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

b. <u>Findings</u>

No findings were identified.

4. OTHER ACTIVITIES (OA)

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

a. Inspection Scope

The inspectors reviewed data for the Peach Bottom 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 Peach Bottom was conducted in the first calendar quarter of 2011, so the inspectors reviewed supporting documentation from EP drills, training records, and equipment tests from the first calendar quarter of 2011 through the fourth quarter of 2011, 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 6.

This inspection activity represented the completion of three samples.

b. Findings

No findings were identified.

4OA6 Meetings, including Exit

On March 29, 2012, the inspectors presented the results of this inspection to Mr. G. Stathes, Peach Bottom 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

G. Stathes, Plant Manager

N. Alexakos, Emergency Preparedness Manager

D. Striebig, Emergency Preparedness Coordinator

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

None.

LIST OF DOCUMENTS REVIEWED

Section 1EP1: Exercise Evaluation

EP-AA-1000, Exelon Nuclear Standardized Emergency Plan (Revision 20) EP-AA-1007, Peach Bottom Atomic Power Station Emergency Plan Annex (Revision 23) Peach Bottom Emergency Plan Implementing Procedures Peach Bottom March 27, 2012, Emergency Exercise Scenario Package Peach Bottom Emergency Preparedness Drill Reports, January 2011 – March 2012 Condition Reports generated as a result of the march 27, 2012, exercise (As documented in PBAPS 2012 Graded Exercise Evaluation Report, dated April 26, 2012)

Section 40A1: Performance Indicator Verification

EP-AA-125-1001, EP Performance Indicator Guidance (Revision 6) ERO Drill Participation PI data, January 2011 – December 2011 Alert Notification System PI data, January 2011 – December 2011 DEP PI data, January 2011 – December 2011

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
PBAPS	Peach Bottom Atomic Power Station
PI	Performance Indicator
RSPS	Risk Significant Planning Standard
TSC	Technical Support Center