



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
2100 RENAISSANCE BLVD.
KING OF PRUSSIA, PA 19406-2713**

April 30, 2018

Mr. Bryan Hanson
Senior Vice President, Exelon Generation Company, LLC
President and Chief Nuclear Officer, Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: PEACH BOTTOM ATOMIC POWER STATION – EVALUATED
EMERGENCY PREPAREDNESS EXERCISE INSPECTION REPORT
05000277/2018501 AND 05000278/2018501

Dear Mr. Hanson:

On April 19, 2018, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Peach Bottom Atomic Power Station, Units 2 and 3. The NRC inspectors discussed the results of this inspection with Mr. Pat Navin, Site Vice President, and other members of your staff. The results of this inspection are documented in the enclosed report.

The NRC inspectors did not identify any finding or violation of more than minor significance.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

Raymond McKinley, Chief
Plant Support Branch
Division of Reactor Safety

Docket Numbers: 50-277 and 50-278
License Numbers DPR-44 and DPR-56

Enclosure:
Inspection Report 05000277/2018501
and 05000278/2018501

cc w/encl:
Distribution via ListServ
T. Scardino, RAC Chair FEMA, Region III

SUBJECT: PEACH BOTTOM ATOMIC POWER STATION – EVALUATED
EMERGENCY PREPAREDNESS EXERCISE INSPECTION REPORT
05000277/2018501 AND 05000278/2018501 DATED APRIL 30, 2018

DISTRIBUTION: (e-mail)

DLew, RA
DCollins, DRA
MGray, DRP
DPelton, DRP
MFerdas, DRP
JYerokun, DRS
BWellington, DRS
JKrafty, BC
SBarber, DRP
ATurilin, DRP
JHeinly, DRP, SRI

BSmith, DRP, RI
JAmbrosini, DRS
RMckinley, DRS
SSchmitt, DRP, AA
JBowen, RI, OEDO
RidsNrrPMPeachBottom Resource
RidsNrrDorLpl1 Resource
ROPreports Resource

DOCUMENT NAME: G:\DRS\Plant Support Branch 1\EP INSPECTIONS\BASELINE\2018\PB EP EX 18\2018
PB EP Exercise Report.docx ADAMS ACCESSION NUMBER: ML18122A007

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRS	RI/DRS			
NAME	JAmbrosini	RMckinley			
DATE	04/24/18	04/30/18			

OFFICIAL RECORD COPY

**U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report**

Docket Numbers: 50-277 and 50-278

License Numbers: DPR-44 and DPR-56

Report Number: 05000277/2018501 and 05000278/2018501

Enterprise Identifier: I-2018-501-0015

Licensee: Exelon Generation Company, LLC

Facility: Peach Bottom Atomic Power Station, Units 2 and 3

Location: Delta, Pennsylvania

Inspection Dates: April 16 – 19, 2018

Inspectors: J. Ambrosini, Senior Emergency Preparedness Inspector,
Division of Reactor Safety (DRS)
E. Burket, Reactor Inspector, DRS
J. DeBoer, Emergency Preparedness Inspector, DRS
J. Schoppy, Senior Reactor Inspector, DRS
D. Silk, Senior Operations Engineer, DRS

Approved By: Raymond R. McKinley, Branch Chief
Plant Support Branch
Division of Reactor Safety

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring Exelon's performance at Peach Bottom Atomic Power Station, Units 2 and 3 by conducting an evaluated emergency preparedness exercise inspection in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

No findings or more-than-minor violations were identified.

INSPECTION SCOPE

The inspectors conducted the inspection using the appropriate portions of the inspection procedure in effect at the beginning of the inspection unless otherwise noted. Currently approved inspection procedures with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards. The inspectors determined the following samples were complete when the inspection procedure requirements were met consistent with Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase."

REACTOR SAFETY

71114.01 - Exercise Evaluation (1 sample)

The inspectors evaluated the adequacy of Exelon's conduct of the exercise and its capability to assess staff performance via a formal critique process, as required by Title 10 of the *Code of Federal Regulations* (10 CFR) 50.47(b)(14).

71114.08 - Exercise Evaluation – Scenario Review (1 sample)

The inspectors reviewed and evaluated the proposed scenario for biennial emergency plan exercise on March 16.

71151 - Performance Indicator Verification (3 samples)

The inspectors verified licensee performance indicators submittals listed below for the period from January 2017 through December 2017.

- (1) Drill and Exercise Performance
- (2) Emergency Response Organization Drill Participation
- (3) Alert and Notification System

EXIT MEETINGS AND DEBRIEFS

On April 19, the inspectors presented the inspection results to Mr. Pat Navin, Site Vice President, and other members of the Exelon staff. The inspectors verified no proprietary information was retained or documented in this report.

DOCUMENTS REVIEWEDSection 1EP1: Exercise Evaluation

Peach Bottom Atomic Power Station Emergency Preparedness Plan

Peach Bottom Atomic Power Station Emergency Preparedness Plan Implementing Procedures

Peach Bottom Atomic Power Graded Exercise - April 17, 2018

Condition Reports

02717364	04101691	04128180
04000486	04101692	04128199
04097357	04101710	04128627
04101742	04101757	
04101745	04101715	

Section 1EP8: Exercise Evaluation – Scenario Review

Peach Bottom Atomic Power Station Emergency Preparedness Plan

Peach Bottom Atomic Power Station Emergency Preparedness Plan Implementing Procedures

Peach Bottom Atomic Power April 17, 2018 Graded Exercise

Section 4OA1: Performance Indicator (PI) Verification

DEP PI data, January 2017 – December 2017

ERO Drill Participation PI data, January 2017 – December 2017

ANS Reliability PI data, January 2017 – December 2017