



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

December 17, 2020

Mr. Bryan C. 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, UNITS 2 AND 3 –
EMERGENCY PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT
05000277/2020501 AND 05000278/2020501

Dear Mr. Hanson:

On December 11, 2020, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Peach Bottom Atomic Power Station, Units 2 and 3. On December 10, 2020, the NRC inspectors discussed the results of this inspection with Mr. Matthew Herr, Site Vice President and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

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 at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

X /RA/

Signed by: Fred L. Bower
Fred L. Bower, III, Chief
Plant Support Branch
Division of Reactor Safety

Docket Nos. 05000277 and 05000278
License Nos. DPR-44 and DPR-56

Enclosure:
As stated

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SUBJECT: PEACH BOTTOM ATOMIC POWER STATION, UNITS 2 AND 3 –
 EMERGENCY PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT
 05000277/2020501 AND 05000278/2020501 DATED DECEMBER 17, 2020

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ADAMS ACCESSION NUMBER: ML20352A174

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OFFICE	RI/DRS	RI/DRP	RI/DRS		
NAME	JAmbrosini	JGreives	FBower		
DATE	12/16/2020	12/16/2020	12/17/2020		

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

Docket Numbers: 05000277 and 05000278

License Numbers: DPR-44 and DPR-56

Report Numbers: 05000277/2020501 and 05000278/2020501

Enterprise Identifier: I-2020-501-0005

Licensee: Exelon Generation Company, LLC

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

Location: Delta, PA

Inspection Dates: December 7, 2020 to December 11, 2020

Inspectors: J. Ambrosini, Senior Emergency Preparedness Inspector
E. Andrews, Health Physicist
P. Boguszewski, Resident Inspector

Approved By: Fred L. Bower, III, Chief
Plant Support Branch
Division of Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an emergency preparedness biennial exercise inspection at Peach Bottom Atomic Power Station, Units 2 and 3, 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.

List of Findings and Violations

No findings or violations of more than minor significance were identified.

Additional Tracking Items

None.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. The inspection was conducted to assess the exercise performed to meet the regulatory requirements in 10 CFR Part 50, Appendix E, paragraph IV.F.2.b (onsite). The regulatory requirements of 10 CFR Part 50, Appendix E, paragraph IV.F.2.c (offsite) are being addressed in separate docketed correspondence (ML20269A267). Currently approved IPs 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>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." 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. Starting on March 20, 2020, in response to the National Emergency declared by the President of the United States on the public health risks of the coronavirus (COVID-19), inspectors were directed to begin telework. In addition, regional baseline inspections were evaluated to determine if all or portion of the objectives and requirements stated in the IP could be performed remotely. If the inspections could be performed remotely, they were conducted per the applicable IP. In some cases, portions of an IP were completed remotely and on site. The inspections documented below met the objectives and requirements for completion of the IP that were available for performance (ML20288A718).

REACTOR SAFETY

71114.01 - Exercise Evaluation

Inspection Review (IP Section 02.01-02.09) (1 Sample)

- (1) The inspectors evaluated the biennial emergency plan exercise. The exercise scenario simulated a spent fuel pool event which resulted in damage to the spent fuel pool liner and loss of fuel pool level on December 8, 2020.

71114.04 - Emergency Action Level and Emergency Plan Changes

Inspection Review (IP Section 02.01-02.03) (1 Sample)

- (1) The inspectors evaluated the following submitted Emergency Action Level and Emergency Plan changes.
 - Evaluation 19-21, CDAM Version 5.0.0.0 Software Update
 - Evaluation 19-81, EP-AA-1007, Addendum 3, Emergency Action Levels for Peach Bottom Atomic Power Station, Revision 7 and EP-AA-111-F-08, Peach Bottom PAR Flowchart, Revision 1
 - Evaluation 20-21, EP-AA-1007, Addendum 3, Emergency Action Levels for Peach Bottom Atomic Power Station, Revision 8
 - Evaluation 20-31, EP-AA-1007, Addendum 3, Emergency Action Levels for Peach Bottom Atomic Power Station, Revision 9

This evaluation does not constitute NRC approval.

71114.08 - Exercise Evaluation Scenario Review

Inspection Review (IP Section 02.01 - 02.04) (1 Sample)

- (1) The inspectors reviewed and evaluated the proposed scenario for biennial emergency plan exercise on October 8, 2020.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

EP01: Drill/Exercise Performance (IP Section 02.12) (1 Sample)

- (1) April 1, 2019 - September 30, 2020

EP02: ERO Drill Participation (IP Section 02.13) (1 Sample)

- (1) April 1, 2019 - September 30, 2020

EP03: Alert & Notification System Reliability (IP Section 02.14) (1 Sample)

- (1) April 1, 2019 - September 30, 2020

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On December 10, 2020, the inspectors presented the emergency preparedness biennial exercise inspection results to Mr. Matthew Herr, Site Vice President and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71114.01	Miscellaneous		Peach Bottom Atomic Power Station 2020 NRC-Graded Exercise Scenario Manual	
		ML20269A267	Request for One-Time Exemption from the Biennial Emergency Preparedness Exercise Requirements in 10 CFR 50, Appendix E, Section IV.F.2.c, Due to COVID-19 Public Health Emergency	09/20/2020
		ML20288A718	PEACH BOTTOM ATOMIC POWER STATION, UNITS 1, 2, AND 3, AND INDEPENDENT SPENT FUEL STORAGE INSTALLATION – TEMPORARY EXEMPTION FROM BIENNIAL EMERGENCY PREPAREDNESS EXERCISE FREQUENCY REQUIREMENTS OF 10 CFR PART 50, APPENDIX E, SECTION IV.F.2.C (EPID L-2020-LLE-0151 [COVID-19])	11/06/2020
71151	Corrective Action Documents Resulting from Inspection	IR 4389138		