



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

March 2, 2018

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR PEACH BOTTOM
ATOMIC POWER STATION UNITS 2 AND 3 – (REPORT 05000277/
2017006 AND 05000278/2017006 REPORT 05000277/2017402 AND
05000278/2017402 REPORT 05000277/2017501 AND 05000278/2017501)**

Dear Mr. Hanson:

The NRC has completed its end-of-cycle performance assessment of Peach Bottom Atomic Power Station (PBAPS) Units 2 and 3, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2017 through December 31, 2017. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at PBAPS Units 2 and 3 during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2019. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

Additionally, the NRC plans to conduct Inspection Procedure 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plant and 71003, Post Approval Site Inspection For License Renewal at Unit 2."

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC's Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

B. Hanson

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Please contact me at 610-337-5120 with any questions you may have regarding this letter.

Sincerely,

/RA/

James A. Krafty, Acting Chief
Reactor Projects Branch 4
Division of Reactor Projects

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

Enclosure:
Inspection/Activity Plan

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 ATOMIC POWER STATION UNITS 2 AND 3 – (REPORT 05000277/2017006
 AND 05000278/2017006 - REPORT 05000277/2017402 AND 05000278/
 2017402 - REPORT 05000277/2017501 AND 05000278/2017501)
 DATED MARCH 2, 2018

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 Annual Assessment Letter.docx ADAMS PKG NO. ML18046A367 ADAMS Accession No. ML18047A006

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OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

Peach Bottom

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
Annual Sample - Structural Monitoring Program						1
2, 3	01/29/2018	02/02/2018	IP 71152	000748	Problem Identification and Resolution	
RAD MONITORING INSTRU Mod 05						1
2, 3	03/26/2018	03/30/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
TRIENNIAL FIRE PROTECTION						4
2, 3	04/02/2018	04/06/2018	IP 71111.05T	000696	Fire Protection (Triennial)	
2, 3	04/16/2018	04/20/2018	IP 71111.05T	000696	Fire Protection (Triennial)	
EP EXERCISE INSPECTION						4
2, 3	04/16/2018	04/20/2018	IP 71114.01	000716	Exercise Evaluation	
RAD HAZARD & ALARA Mods 01, 02						1
2, 3	04/23/2018	04/27/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
2, 3	04/23/2018	04/27/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
ISFSI LOADING CAMPAIGN INSPECTION						2
2, 3	05/14/2018	05/18/2018	IP 60855.1	000590	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
OCCUPATIONAL DOSE ASSESSMENT Mod 04						1
2, 3	05/21/2018	05/25/2018	IP 71124.04	000728	Occupational Dose Assessment	
ACCESS CONTROL, EQUIP PERF, TRAINING						3
2, 3	08/06/2018	08/10/2018	IP 71130.02	000734	Access Control	
2, 3	08/06/2018	08/10/2018	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
2, 3	08/06/2018	08/10/2018	IP 71130.07	000739	Security Training	
2, 3	08/06/2018	08/10/2018	IP 71151	001338	Performance Indicator Verification	
2, 3	08/06/2018	08/10/2018	IP 81311	000831	Physical Security Requirements for Independent Spent Fuel Storage Installations	
REMP Mod 07						1
2, 3	09/17/2018	09/21/2018	IP 71124.07	000731	Radiological Environmental Monitoring Program	
Unit 2 ISI						1
2	10/22/2018	10/26/2018	IP 71111.08G	000701	Inservice Inspection Activities - BWR	

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

IP 22 Inspection Activity Plan Report

Peach Bottom

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
RAD HAZARD, ALARA, AIR ACT CNTRL Mods 01, 02, 03						1
2, 3	10/29/2018	11/02/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
2, 3	10/29/2018	11/02/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
2, 3	10/29/2018	11/02/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
UNIT 2 - LICENSE RENEWAL PHASE 4						2
2	11/26/2018	11/30/2018	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
RAD SAFETY Mods 01, 02, 03,04, PI (OR01, PR01)						1
2, 3	12/10/2018	12/14/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
2, 3	12/10/2018	12/14/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
2, 3	12/10/2018	12/14/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	12/10/2018	12/14/2018	IP 71124.04	000728	Occupational Dose Assessment	
2, 3	12/10/2018	12/14/2018	IP 71151	000746	Performance Indicator Verification	
EQ PROGRAM						3
2, 3	01/14/2019	01/18/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
2, 3	01/28/2019	02/01/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
PEACH BOTTOM INITIAL OL EXAM						5
2, 3	01/28/2019	02/01/2019	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
2, 3	02/25/2019	03/08/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
EP PROGRAM INSPECTION						2
2, 3	03/04/2019	03/08/2019	IP 71114.02	000717	Alert and Notification System Testing	
2, 3	03/04/2019	03/08/2019	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
2, 3	03/04/2019	03/08/2019	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
2, 3	03/04/2019	03/08/2019	IP 71151	001397	Performance Indicator Verification	
PB REQUAL INSP WITH P/F RESULTS						2
2, 3	03/11/2019	03/15/2019	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance - Annual	
2, 3	03/11/2019	03/15/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	

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CYBER MS8						2
2, 3	03/18/2019	03/22/2019	IP 71130.10P	000741	Cyber Security	
2, 3	04/01/2019	04/05/2019	IP 71130.10P	000741	Cyber Security	
ACCESS CONTROL, PROTECTIVE STRATEGY, TSR						4
2, 3	03/25/2019	03/29/2019	IP 71130.02	000734	Access Control	
2, 3	03/25/2019	03/29/2019	IP 71130.05	000737	Protective Strategy Evaluation	
2, 3	03/25/2019	03/29/2019	IP 71130.14	000743	Review of Power Reactor Target Sets	
2, 3	03/25/2019	03/29/2019	IP 71151	001338	Performance Indicator Verification	
RAD EFFLUENTS Mod 06						1
2, 3	04/15/2019	04/19/2019	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
Triennial Heat Sink						1
2, 3	05/13/2019	05/17/2019	IP 71111.07T	000700	Heat Sink Performance -Triennial	
RAD HAZARD & ALARA Mods 01, 02						1
2, 3	05/13/2019	05/17/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
2, 3	05/13/2019	05/17/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
PI&R BIENNIAL						4
2, 3	06/10/2019	06/14/2019	IP 71152B	000747	Problem Identification and Resolution	
2, 3	06/24/2019	06/28/2019	IP 71152B	000747	Problem Identification and Resolution	
Radwaste						1
2, 3	07/29/2019	08/02/2019	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
MC&A						1
2	08/12/2019	08/16/2019	IP 71130.11	000742	Material Control and Accounting (MC&A)	
INSERVICE INSPECTION - UNIT 3						1
3	10/28/2019	11/01/2019	IP 71111.08G	000701	Inservice Inspection Activities - BWR	
RAD HAZARD, ALARA, AIR ACT CNTRL Mods 01, 02, 03						1
2, 3	10/28/2019	11/01/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
2, 3	10/28/2019	11/01/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	

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2, 3	10/28/2019	11/01/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
RAD SAFETY Mods 01, 02, 03,04, PI (OR01, PR01)						1
2, 3	12/02/2019	12/06/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
2, 3	12/02/2019	12/06/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
2, 3	12/02/2019	12/06/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	12/02/2019	12/06/2019	IP 71124.04	000729	Occupational Dose Assessment	
2, 3	12/02/2019	12/06/2019	IP 71151	000746	Performance Indicator Verification	