



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

March 1, 2017

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR PEACH BOTTOM ATOMIC POWER
STATION UNITS 2 AND 3 – REPORT NOS. 05000277/2016006 AND
05000278/2016006

Dear Mr. Hanson:

The U.S. Nuclear Regulatory Commission (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, 2016 through December 31, 2016. 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, 2018. 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. Additionally, the NRC plans to conduct temporary instruction (TI) 192, Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition Design Vulnerabilities in Electric Power Systems, and Inspection Procedure 60855.1, Operation of an Independent Spent Fuel Storage Installation Loading Campaign. 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. This inspection plan does not include the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

B. Hanson

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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 Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NR's Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 610-337-5262 with any questions you have regarding this letter.

Sincerely,

/RA/

Daniel L. Schroeder, 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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR PEACH BOTTOM ATOMIC POWER
STATION UNITS 2 AND 3 – REPORT NOS 05000277/2016006 AND
05000278/2016006 DATED MARCH 1, 2017

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Peach Bottom
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates Start End		Inspection Activity	Title	No. of Staff on Site
			3/20EXAM - PEACH BOTTOM INITIAL OL EXAM		4
2	02/20/2017	02/24/2017	U01942	FY-17-PB INITIAL OPERATOR LICENSING EXAM	
2	03/20/2017	03/31/2017	U01942	FY-17-PB INITIAL OPERATOR LICENSING EXAM	
			711111B - PB REQUAL INSP WITH P/F RESULTS		2
2, 3	02/27/2017	03/03/2017	IP 711111A	Licensed Operator Requalification Program - Annual Review	
2, 3	02/27/2017	03/03/2017	IP 711111B	Licensed Operator Requalification Program	
			71152B - PI&R BIENNIAL		4
2, 3	03/13/2017	03/17/2017	IP 71152B	Problem Identification and Resolution	
2, 3	03/27/2017	03/31/2017	IP 71152B	Problem Identification and Resolution	
			7111121M - DESIGN BASES ASSURANCE INSPECTION (TEAM)		6
2, 3	01/30/2017	02/03/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
2, 3	02/13/2017	02/17/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
			EP - EP PROGRAM INSPECTION		1
2, 3	03/27/2017	03/31/2017	IP 7111402	Alert and Notification System Testing	
2, 3	03/27/2017	03/31/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
2, 3	03/27/2017	03/31/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
2, 3	03/27/2017	03/31/2017	IP 71151	Performance Indicator Verification	
			71124 - IP 71124.01 RAD HAZARD .04 AIRORNE		1
2, 3	03/20/2017	03/23/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	03/20/2017	03/23/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			71124.08 - RADWASTE		1
2, 3	07/17/2017	07/21/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			71124 - HP INSPECTION 01 02 03 04		1
2, 3	10/23/2017	10/27/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	10/23/2017	10/27/2017	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	10/23/2017	10/27/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	10/23/2017	10/27/2017	IP 71124.04	Occupational Dose Assessment	
2, 3	10/23/2017	10/27/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
			7111108G - U3 INSERVICE INSPECTION		1
3	10/30/2017	11/03/2017	IP 7111108G	Inservice Inspection Activities - BWR	
			7111105T - TRIENNIAL FIRE PROTECTION		4
2, 3	04/02/2018	04/06/2018	IP 7111105T	Fire Protection [Triennial]	
2, 3	04/16/2018	04/20/2018	IP 7111105T	Fire Protection [Triennial]	

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

Peach Bottom
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
			71124 - RAD MONITORING INSTRU		1
2, 3	03/26/2018	03/29/2018	IP 71124.05	Radiation Monitoring Instrumentation	
			EP - EP EXERCISE INSPECTION		4
2, 3	04/23/2018	04/26/2018	IP 7111401	Exercise Evaluation	
			ISFSI - ISFSI LOADING CAMPAIGN INSPECTION		3
2, 3	05/14/2018	05/18/2018	IP 60855	Operation Of An ISFSI	
2, 3	05/14/2018	05/18/2018	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			71124 - RAD HAZARD & ALARA 01 02		1
2, 3	05/07/2018	05/11/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	05/07/2018	05/11/2018	IP 71124.02	Occupational ALARA Planning and Controls	
			71124 - RAD EFFLUENTS		1
2, 3	06/11/2018	06/15/2018	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			71124 - REMP		1
2, 3	07/09/2018	07/13/2018	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			71124 - IP 71151 PI VERIFY IP 71124.01 .02 .03 .		1
2	10/22/2018	10/25/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	10/22/2018	10/25/2018	IP 71124.02	Occupational ALARA Planning and Controls	
2	10/22/2018	10/25/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2	10/22/2018	10/25/2018	IP 71124.04	Occupational Dose Assessment	
2	10/22/2018	10/25/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
2	10/22/2018	10/25/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			U2 ISI - UNIT 2 INSERVICE INSPECTION		2
2	10/29/2018	11/02/2018	IP 7111108G	Inservice Inspection Activities - BWR	

Comments: