

## UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION I 2100 RENAISSANCE BLVD., SUITE 100 KING OF PRUSSIA, PA 19406-2713

March 2, 2016

Mr. Bryan Hanson Senior Vice President, Exelon Generation 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 05000277/2015006 AND

05000278/2015006)

Dear Mr. Hanson:

On February 11, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Peach Bottom Atomic Power Station (PBAPS) Units 2 and 3. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2015 through December 31, 2015. 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 determined that overall, PBAPS Units 2 and 3 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at PBAPS Units 2 and 3 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, 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, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to ROP baseline inspections, the NRC will perform Inspection Procedure (IP) 60855.1, "Operation of an ISFSI Independent Spent Fuel Storage Installation at Operating Plants." The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. 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 security related inspections, which will be sent via separate, non-publicly available correspondence.

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events." This Order requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable

B. Hanson -2-

Spent Fuel Pool Instrumentation." This Order requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. The audit was completed for PBAPS Units 2 and 3, and the information gathered will aid staff in development of the Final Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing TI 2515-191, "Inspection of the Implementation of Mitigating Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communications/Staffing/Multi-Unit Dose Assessment Plans."

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 NRC Web site at <a href="http://www.nrc.gov/reading-rm/adams.html">http://www.nrc.gov/reading-rm/adams.html</a> (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 Division of Reactor Projects Projects Branch 4

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

Enclosure: Peach Bottom Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-16 EOC Review\Branch 4\Peach Bottom\PB 2015 EOC Assessment Letter ROP-16 .docx ADAMS Accession No. **ML16060A376** 

SUNSI Review		✓ Non-Sensitive ☐ Sensitive		Publicly Available  Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP	RI/DRP	RI/DRP	
NAME	ATurilin/ AT	BSmith/ BS via email	JHeinly/ JH via email	DSchroeder/ DLS	
DATE	02/25 /16	02/ 25 /16	02/24 /16	02/29 /16	

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## **Peach Bottom** Inspection / Activity Plan 01/01/2016 - 12/31/2017

Unit	Unit Planned Dates				
Number	Start	End	Inspection Activity	Title	on Site
			7111117T - PERM	IANENT PLANT MODIFICATIONS	3
2, 3	01/25/2016	01/29/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
2, 3	02/08/2016	02/12/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			EP - EP EX	(ERCISE EVALUATION	4
2, 3	04/25/2016	04/29/2016	IP 7111401	Exercise Evaluation	
			RS1234 - HP IN	SPECTION	1
2, 3	03/06/2016	03/10/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	03/06/2016	03/10/2016	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	03/06/2016	03/10/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	03/06/2016	03/10/2016	IP 71124.04	Occupational Dose Assessment	
			RS567PPI - HP TE	EAM INSPECTION	3
2, 3	06/06/2016	06/10/2016	IP 71124.05	Radiation Monitoring Instrumentation	
2, 3	06/06/2016	06/10/2016	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
2, 3	06/06/2016	06/10/2016	IP 71124.07	Radiological Environmental Monitoring Program	
2	06/06/2016	06/10/2016	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			7111107T - TRIEN	NNIAL HEAT SINK	1
2, 3	06/13/2016	06/17/2016	IP 7111107T	Heat Sink Performance	
			3/20EXAM - PEAC	H BOTTOM INITIAL 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	
			7111108G - PB U2	2 INSERVICE INSPECTION	1
2	10/31/2016	11/04/2016	IP 7111108G	Inservice Inspection Activities - BWR	
			RS1234PI - HP IN	SPECTION	1
2, 3	10/31/2016	11/04/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	10/31/2016	11/04/2016	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	10/31/2016	11/04/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	10/31/2016	11/04/2016	IP 71124.04	Occupational Dose Assessment	
2, 3	10/31/2016	11/04/2016	IP 71151-OR01	Occupational Exposure Control Effectiveness	
			7111111B - PB RE	EQUAL INSP WITH P/F RESULTS	2
2, 3	03/06/2017	03/10/2017	IP 7111111B	Licensed Operator Requalification Program	
			CBDI - COMF	PONENT DESIGN BASIS INSPECTION	6
2, 3	01/30/2017	02/03/2017	IP 7111121	Component Design Bases Inspection	
2, 3	02/13/2017	02/17/2017	IP 7111121	Component Design Bases Inspection	
2, 3	02/27/2017	03/03/2017	IP 7111121	Component Design Bases Inspection	

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

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## **Peach Bottom**

Inspection / Activity Plan 01/01/2016 - 12/31/2017

Unit		d Dates End		-41.44. 3.	No. of Staff
Number	Start	Ena	Inspection A		on Site
			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	
			71152B	- PI&R BIENNIAL	2
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	
			RS12	- HP INSPECTION	1
2, 3	03/27/2017	03/31/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	03/27/2017	03/31/2017	IP 71124.02	Occupational ALARA Planning and Controls	
			ISFSI	- ISFSI LOADING CAMPAIGN INSPECTION	1
2, 3	05/08/2017	05/12/2017	IP 60855	Operation Of An ISFSI	
2, 3	05/08/2017	05/12/2017	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			RS34	- HP INSPECTION	1
2, 3	05/08/2017	05/12/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	05/08/2017	05/12/2017	IP 71124.04	Occupational Dose Assessment	
2	05/08/2017	05/12/2017	IP 71151-PR	01 RETS/ODCM Radiological Effluent Occurrences	
			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	
			RS123	- HP INSPECTION	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	10/23/2017	10/27/2017	IP 71151-OR	Occupational Exposure Control Effectiveness	
			7111108G	- U3 INSERVICE INSPECTION	1
3	10/30/2017	11/03/2017	IP 7111108G	Inservice Inspection Activities - BWR	