



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

March 4, 2015

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR PEACH BOTTOM ATOMIC POWER STATION (REPORT 05000277/2014001 AND 05000278/2014001)**

Dear Mr. Hanson:

On February 12, 2015, the U. S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Peach Bottom Atomic Power Station (PBAPS). The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2014 through December 31, 2014. 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 June 30, 2016. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. In addition to the baseline inspection program at PBAPS, we also plan to conduct Inspection Procedure (IP) 71004, "Power Uprate," and IP 60855.1, "Operation of an IFISI 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.

Additionally, an NRC audit of licensee efforts towards compliance with Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," and Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation," is ongoing for various sites. The audit includes an onsite visit for the NRC staff to evaluate mitigating strategies as described in the licensee submittals, and to receive and review information relative to associated open items. This onsite audit will occur prior to the first unit at the site achieving compliance with the Orders and the audit will aid NRC staff in developing a final Safety Evaluation for the site. The audit at your site is being coordinated for the week of June 22, 2015. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

From January 1 to December 31, 2014, the NRC issued one traditional escalated enforcement action associated with the violation found in the inspection report 07200029/14-008 (ML14307A797). Therefore, the NRC plans to conduct IP 92702, "Follow-up on Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, and Alternative Dispute Resolution Confirmatory Orders," to follow-up on this violation.

In accordance with Title 10 of the *Code of Federal Regulations*, Part 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 component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact Fred Bower at (610) 337-5200 with any questions you have regarding this letter.

Sincerely,

**/RA/**

Fred L. Bower, III, Chief  
Division of Reactor Projects  
Projects Branch 4

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

Enclosure: Peach Bottom Atomic Power Station Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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NAME	SBarber/ GSB	FBower/ FLB			
DATE	02/19/15	02/ 19 /15			

**Peach Bottom**  
**Inspection / Activity Plan**  
**01/01/2015 - 06/30/2016**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>3/23EXAM - INITIAL OL EXAM</b>		<b>3</b>
2	02/23/2015	02/27/2015	U01911	FY15 - PEACH BOTTOM INITIAL OPERATOR LICENSING EXAM	
2	03/23/2015	04/03/2015	U01911	FY15 - PEACH BOTTOM INITIAL OPERATOR LICENSING EXAM	
			<b>7111111B - REQUAL INSP W/ P/F RESULTS</b>		<b>2</b>
2, 3	03/23/2015	03/27/2015	IP 7111111B	Licensed Operator Requalification Program	
			<b>EP - EP PROGRAM INSPECTION</b>		<b>1</b>
2, 3	03/09/2015	03/13/2015	IP 7111402	Alert and Notification System Testing	
2, 3	03/09/2015	03/13/2015	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
2, 3	03/09/2015	03/13/2015	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			<b>TRI FI - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>4</b>
2, 3	03/16/2015	03/20/2015	IP 7111105T	Fire Protection [Triennial]	
2, 3	03/30/2015	04/03/2015	IP 7111105T	Fire Protection [Triennial]	
			<b>71152B - PI&amp;R - BIENNIAL</b>		<b>5</b>
2, 3	04/06/2015	04/10/2015	IP 71152B	Problem Identification and Resolution	
2, 3	04/20/2015	04/24/2015	IP 71152B	Problem Identification and Resolution	
			<b>ISFSI - ISFSI LOADING INSPECTION</b>		<b>1</b>
2, 3	05/11/2015	05/15/2015	IP 60855	Operation Of An ISFSI	
2, 3	05/11/2015	05/15/2015	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>RS7 - 71124.07</b>		<b>1</b>
2, 3	06/22/2015	06/26/2015	IP 71124.07	Radiological Environmental Monitoring Program	
			<b>71124.08 - RADWASTE</b>		<b>1</b>
2, 3	07/20/2015	07/24/2015	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>RS45 - 71124.03, .04, .05</b>		<b>1</b>
2, 3	07/20/2015	07/24/2015	IP 71124.04	Occupational Dose Assessment	
2, 3	07/20/2015	07/24/2015	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>7111108G - U3 INSERVICE INSPECTION</b>		<b>1</b>
3	09/14/2015	09/18/2015	IP 7111108G	Inservice Inspection Activities - BWR	
			<b>RS123 - 71124.01, .02, .03</b>		<b>1</b>
2, 3	09/28/2015	10/02/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	09/28/2015	10/02/2015	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	09/28/2015	10/02/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	09/28/2015	10/02/2015	IP 71151-OR01		
2, 3	09/28/2015	10/02/2015	IP 71151-PR01		

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

**Peach Bottom**  
**Inspection / Activity Plan**  
**01/01/2015 - 06/30/2016**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>711117T - PERMANENT PLANT MODIFICATIONS</b>		<b>3</b>
2, 3	01/25/2016	01/29/2016	IP 711117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
2, 3	02/08/2016	02/12/2016	IP 711117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			<b>EP - EP EXERCISE EVALUATION</b>		<b>4</b>
2, 3	04/25/2016	04/29/2016	IP 7111401	Exercise Evaluation	
			<b>RS1234 - HP INSPECTION</b>		<b>1</b>
2, 3	03/07/2016	03/11/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	03/07/2016	03/11/2016	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	03/07/2016	03/11/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	03/07/2016	03/11/2016	IP 71124.04	Occupational Dose Assessment	
			<b>7111107T - TRIENNIAL HEAT SINK</b>		<b>1</b>
2, 3	06/13/2016	06/17/2016	IP 7111107T	Heat Sink Performance	
			<b>RS567 - HP TEAM INSPECTION</b>		<b>3</b>
2, 3	06/20/2016	06/24/2016	IP 71124.05	Radiation Monitoring Instrumentation	
2, 3	06/20/2016	06/24/2016	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
2, 3	06/20/2016	06/24/2016	IP 71124.07	Radiological Environmental Monitoring Program	

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