



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

September 2, 2014

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

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR PEACH BOTTOM ATOMIC POWER
STATION, UNITS 2 AND 3 (REPORT 05000277/2014006 and 05000278/2014006)**

Dear Mr. Pacilio:

On August 13, 2014, the NRC completed its mid-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 July 1, 2013 through June 30, 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, Peach Bottom Atomic Power Station (PBAPS) Units 2 and 3 were operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC also determined the performance at PBAPS during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all performance indicators demonstrated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct Reactor Oversight Process baseline inspections at your facility.

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised. All cross-cutting aspects identified during inspections conducted in calendar year 2014 reflect this revision to Inspection Manual Chapter (IMC) 0310. Cross-cutting aspects identified in 2013 using the 2013 terminology were converted to the latest revision in accordance with the cross-reference in IMC 0310 during the mid-cycle assessment review and evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305.

The enclosed inspection plan lists the inspections scheduled through December 31, 2015. 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 end-of-cycle performance review. 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 addition to the baseline inspection program at PBAPS, we also plan to conduct Inspection Procedure (IP) 71004, "Power Uprate" and IP 49001, "EC/FAC Power Uprate – Inspection of Erosion-Corrosion/Flow-Accelerated-Corrosion Monitoring Program."

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," which 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 Spent Fuel Pool Instrumentation," which 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. This audit includes an onsite component in order for the NRC to evaluate licensee plans for complying with the Orders, as described in site-specific submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR), 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 the NRC's Agencywide Document Access and Management 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

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Enclosure: Peach Bottom Atomic Power Station Inspection/Activity Plan

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Distribution: See next page

DOC NAME: S:\ROP Assessment Meetings\ROP-15 Mid-Cycle Review\Branch 4\Peach Bottom\PB 2014 MC Letter Final.docx
ADAMS Accession No.: **ML14239A199**

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME	SHansell/GSB for	SBarber/ GSB	FBower/ FLB		
DATE	08/22 /14	08/22 /14	09/02/14		

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ROPReports Resource

Peach Bottom
Inspection / Activity Plan
07/01/2014 - 12/31/2015

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			2561 - SAFSTOR		1
1	06/23/2014	08/30/2014	IP 36801	Organization, Management, And Cost Controls At Permanently Shutdown Reactors	
			2561 - SAFSTOR		1
1	06/27/2015	06/30/2015	IP 36801	Organization, Management, And Cost Controls At Permanently Shutdown Reactors	
1	06/27/2015	06/30/2015	IP 37801	Safety Reviews, Design Changes, And Modifications At Permanently Shutdown Reactors	
1	06/27/2015	06/30/2015	IP 40801	Self-Assessment, Auditing, And Corrective Action At Permanently Shutdown Reactors	
1	06/27/2015	06/30/2015	IP 62801	Maintenance And Surveillance At Permanently Shutdown Reactors	
1	06/27/2015	06/30/2015	IP 71801	Decommissioning Performance And Status Review At Permanently Shutdown Reactors	
1	06/27/2015	06/30/2015	IP 83750	Occupational Radiation Exposure	
1	06/27/2015	06/30/2015	IP 84750	Radioactive Waste Treatment, And Effluent And Environmental Monitoring	
1	06/27/2015	06/30/2015	IP 86750	Solid Radioactive Waste Management And Transportation Of Radioactive Materials	

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

Peach Bottom
Inspection / Activity Plan
07/01/2014 - 12/31/2015

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			EP - EP ANNUAL REPORT		4
2, 3	01/01/2014	12/31/2014	IP 7111406	Drill Evaluation	
			UPRATE - 71004 - POWER UPRATE		3
2, 3	01/01/2014	12/31/2014	IP 71004	Power Uprate	
			7111111B - LSRO REQUAL INSP W/ P/F RESULTS		2
2, 3	06/02/2014	12/31/2014	IP 7111111B	Licensed Operator Requalification Program	
			RS56 - 71124.05,.06		1
2, 3	09/08/2014	09/12/2014	IP 71124.05	Radiation Monitoring Instrumentation	
2, 3	09/08/2014	09/12/2014	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
2, 3	09/08/2014	09/12/2014	IP 71151-OR01		
2, 3	09/08/2014	09/12/2014	IP 71151-PR01		
			7111108G - U2 INSERVICE INSPECTION		1
2	10/27/2014	10/31/2014	IP 7111108G	Inservice Inspection Activities - BWR	
			IP49001 - EC/FAC POWER UPRATE		1
2	11/03/2014	11/07/2014	IP 49001	Inspection Of Erosion-Corrosion/Flow-Accelerated-Corrosion Monitoring Programs	
			3/23EXAM - INITIAL OL EXAM		3
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	
			EP - EP ANNUAL REPORT		4
2, 3	01/01/2015	12/31/2015	IP 7111406	Drill Evaluation	
			RS123 - 71124.01,.02,.03		1
2, 3	02/23/2015	02/27/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	02/23/2015	02/27/2015	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	02/23/2015	02/27/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			TRI FI - TRIENNIAL FIRE PROTECTION INSPECTION		4
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]	
			EP - EP PROGRAM INSPECTION		1
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	
			7111111B - REQUAL INSP W/ P/F RESULTS		2
2, 3	03/16/2015	03/20/2015	IP 7111111B	Licensed Operator Requalification Program	

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Peach Bottom
Inspection / Activity Plan
07/01/2014 - 12/31/2015

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			PI&R BI - PI&R - BIENNIAL		5
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	
			ISFSI - ISFSI LOADING INSPECTION		1
2, 3	05/01/2015	06/30/2015	IP 60855	Operation Of An ISFSI	
2, 3	05/01/2015	06/30/2015	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			RS7 - 71124.07		1
2, 3	06/22/2015	06/26/2015	IP 71124.07	Radiological Environmental Monitoring Program	
			71124.08 - RADWASTE		1
2, 3	07/20/2015	07/24/2015	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			RS45 - 71124.04, .05		1
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	
			7111108G - U3 INSERVICE INSPECTION		1
3	09/14/2015	09/18/2015	IP 7111108G	Inservice Inspection Activities - BWR	
			RS12 - 71124.01, .02		1
2, 3	10/05/2015	10/09/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	10/05/2015	10/09/2015	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	10/05/2015	10/09/2015	IP 71151-OR01		
2, 3	10/05/2015	10/09/2015	IP 71151-PR01		

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