



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

September 3, 2013

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 PERFORMANCE REVIEW AND INSPECTION PLAN -
PEACH BOTTOM ATOMIC POWER STATION, UNITS 2 AND 3
(REPORT 05000277/2013006 AND 05000278/2013006)**

Dear Mr. Pacilio:

On August 14, 2013, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of Peach Bottom Atomic Power Station (Peach Bottom) Units 2 and 3. The NRC reviewed the most recent quarterly performance indicators in addition to inspection results and enforcement actions from July 1, 2012 through June 30, 2013. 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 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 Peach Bottom Units 2 and 3 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.

The enclosed inspection plan lists the inspections scheduled through December 31, 2014. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to baseline inspections, the NRC will perform IP 92702, "Follow-up on Corrective Actions for Violations and Deviations," IP71003, "Post-Approval Site Inspection for License Renewal," IP71004, "Power Uprate," and Temporary Instruction 2515/182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks." The inspections listed during the last 9 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 accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) Section 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 the NRC's Agencywide Documents 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 me at (610) 337-5209 with any questions you have regarding this letter.

Sincerely,

/RA/

Mel Gray, Chief
Reactor Projects Branch 4
Division of Reactor Projects

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

Enclosure: Inspection Plan

cc w/encl: Distribution via ListServ

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OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME <i>mmt</i>	SHansell/MG for SH	SBarber/SB	MGray/MG		
DATE	08 /25 /13	08 / 26 /13	09/03 /13		

OFFICIAL RECORD COPY

Peach Bottom
Inspection / Activity Plan
07/01/2013 - 12/31/2014

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
71124 - HP					1
2,3	07/29/2013	08/02/2013	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	07/29/2013	08/02/2013	IP 71124.04	Occupational Dose Assessment	
2,3	07/29/2013	08/02/2013	IP 71124.05	Radiation Monitoring Instrumentation	
71124.07 - REMP					1
2,3	09/02/2013	09/06/2013	IP 71124.07	Radiological Environmental Monitoring Program	
7111108G - U3 INSERVICE INSPECTION					1
3	09/16/2013	09/20/2013	IP 7111108G	Inservice Inspection Activities - BWR	
71124 - HP					1
3	09/16/2013	09/20/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
3	09/16/2013	09/20/2013	IP 71124.02	Occupational ALARA Planning and Controls	
71124.08 - RADWASTE					1
2,3	10/21/2013	10/25/2013	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
71124 - HP					1
2,3	01/06/2014	01/10/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	01/06/2014	01/10/2014	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	01/06/2014	01/10/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2,3	01/06/2014	01/10/2014	IP 71124.04	Occupational Dose Assessment	
EP - EP ANNUAL REPORT					4
2,3	01/01/2014	12/31/2014	IP 7111406	Drill Evaluation	
71003 - U3 LR COMMITMENTS PHASE 2					2
3	01/21/2014	01/24/2014	IP 71003	Post-Approval Site Inspection for License Renewal	
TI-182 - DEGRAD UNDERGROUND PIPING - PHASE 2					1
2,3	02/24/2014	02/28/2014	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
CDBI - CDBI					7
2,3	03/03/2014	03/07/2014	IP 7111121	Component Design Bases Inspection	
2,3	03/17/2014	03/21/2014	IP 7111121	Component Design Bases Inspection	
2,3	03/31/2014	04/04/2014	IP 7111121	Component Design Bases Inspection	
EP EXER - EP EXERCISE INSPECTION					1
2,3	04/07/2014	04/11/2014	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
71124 - HP					1
2,3	05/19/2014	05/23/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	05/19/2014	05/23/2014	IP 71124.02	Occupational ALARA Planning and Controls	

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

Peach Bottom
Inspection / Activity Plan
07/01/2013 - 12/31/2014

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	Start	End			
			71124 - HP		1
2, 3	05/19/2014	05/23/2014	IP 71124.05	Radiation Monitoring Instrumentation	
			71124 - RETS		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	
			7111111B - PB LSRO REQUAL INSP WITH P/F RESULTS		1
2, 3	12/08/2014	12/12/2014	IP 7111111B	Licensed Operator Requalification Program	
			71124 - HP		1
2	10/27/2014	10/31/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	10/27/2014	10/31/2014	IP 71124.02	Occupational ALARA Planning and Controls	
			7111108G - U2 INSERVICE INSPECTION		1
2	10/27/2014	10/31/2014	IP 7111108G	Inservice Inspection Activities - BWR	
			71004 - EC/FAC POWER UPRATE		1
2	11/03/2014	11/07/2014	IP 71004	Power Uprate	

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