

## UNITED STATES NUCLEAR REGULATORY COMMISSION REGION I

2100 RENAISSANCE BOULEVARD, SUITE 100 KING OF PRUSSIA, PENNSYLVANIA 19406-2713

September 4, 2012

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

(REPORT 05000277/2012006 and 05000278/2012006)

Dear Mr. Pacilio:

On August 15, 2012, the U. S. Nuclear Regulatory Commission (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, 2011 through June 30, 2012. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This assessment reflects the integration of the Security Cornerstone into the ROP performance assessment program governed by IMC 0305, "Operating Reactor Assessment Program."

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 (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, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to the baseline inspections, consistent with the Agency's actions related to Fukushima, the NRC will perform TI-187, "Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns" and TI-188, "Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns." We also plan to conduct Inspection Procedure (IP) 71003, "Post-Approval Site Inspection for License Renewal," and independent spent fuel storage installation inspections (ISFSI) using Inspection Procedure 60855.1, "Operation of an ISFSI at Operating Plants." 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.

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In accordance with 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 610-337-5120 with any questions you have regarding this letter.

Sincerely,

/RA/

Paul G. Krohn, 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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S. McCarver, DRP

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OFFICE	RI/DRP	RI/DRP			
NAME	SMcCarver/SM	PKrohn/ PGK			
DATE	08/27 /12	08/ 27/12			

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## **Peach Bottom** Inspection / Activity Plan 07/01/2012 - 12/31/2013

Unit	Planne	ed Dates	i .			No. of Sta	aff 🏽
Number	Start	End	Inspection A	ctivity	Title	on Site	
			2561	- SAFST	OR INSPECTION	1	_
1	07/23/2012	07/28/2012	IP 36801		Organization, Management, And Cost Controls At Permanently Shutdown Reactors		
1	07/23/2012	07/28/2012	IP 37801		Safety Reviews, Design Changes, And Modifications At Permanently Shutdown Reactors		
1	07/25/2012	07/28/2012	IP 40801		Self-Assessment, Auditing, And Corrective Action At Permanently Shutdown Reactors		
1	07/25/2012	07/28/2012	IP 62801		Maintenance And Surveillance At Permanenly Shutdown Reactors		
1	07/25/2012	07/28/2012	IP 71801		Decommissioning Performance And Status Revierw At Permanently Suhutdown Reactors		
1	07/25/2012	07/28/2012	IP 83750		Occupational Radiation Exposure		
1	07/25/2012	07/28/2012	IP 84750		Radioactive Waste Treatment, And Effluent And Environmental Monitoring		
1	07/25/2012	07/28/2012	IP 86750		Solid Radioactive Waste Management And Transportation Of Radioactive Materials		
			TI-187	- FLOOD	ING WALKDOWNS	1	
2, 3	07/17/2012	08/28/2012	IP 2515/187		Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns		
			TI-188	- SEISMI	C WALKDOWNS	1	
2, 3	08/27/2012	09/14/2012	IP 2515/188		Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns		
			7111108G	- U2 INSE	ERVICE INSPECTION	1	
2	09/17/2012	09/21/2012	IP 7111108G	}	Inservice Inspection Activities - BWR		
			71003	- LR COM	MMITMENTS INSP - PHASE I	2	
2	09/17/2012	09/21/2012	IP 71003		Post-Approval Site Inspection for License Renewal		
			71124	- HP		1	
2	09/24/2012	09/28/2012	IP 71124.01		Radiological Hazard Assessment and Exposure Controls		
2	09/24/2012	09/28/2012	IP 71124.02		Occupational ALARA Planning and Controls		
2, 3	09/24/2012	09/28/2012	IP 71124.03		In-Plant Airborne Radioactivity Control and Mitigation		
			TI 182	- DEGRA	DATION OF UNDERGROUND PIPING	1	
2, 3	11/12/2012	11/16/2012	IP 2515/182		Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping		
			3/25 EXM	- PEACH	BOTTOM INITIAL EXAM	4	
2	02/25/2013	03/01/2013	U01867		FY13-PB INITIAL OPERATOR LICENSING EXAM		
2	03/25/2013	03/29/2013	U01867		FY13-PB INITIAL OPERATOR LICENSING EXAM		
			71124	- RETS		1	
2, 3	12/03/2012	12/07/2012	IP 2515/185		Follow-up on the Industry's Ground Water Protection Initiative		
2, 3	12/03/2012	12/07/2012	IP 71124.05		Radiation Monitoring Instrumentation		
2, 3	12/03/2012	12/07/2012	IP 71124.06		Radioactive Gaseous and Liquid Effluent Treatment		
			71003	- U2 LR C	COMMITMENTS PHASE II	5	
2	01/14/2013	01/18/2013	IP 71003		Post-Approval Site Inspection for License Renewal		
2	01/28/2013	02/01/2013	IP 71003		Post-Approval Site Inspection for License Renewal		

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Unit Number	Planne Start	ed Dates End	Inspection A	ctivity	Title	No. of Staff on Site
	-				I BOTTOM REQUAL WITH P/F RESULTS	2
2, 3	03/04/2013	03/08/2013	IP 7111111B		Licensed Operator Regualification Program	-
_, 0	00/0 // 20 // 0	00/00/2010		- HP		1
2, 3	02/04/2013	02/08/2013	IP 71124.01		Radiological Hazard Assessment and Exposure Controls	
2,3	02/04/2013	02/08/2013	IP 71124.02		Occupational ALARA Planning and Controls	
2, 3	02/04/2013	02/08/2013	IP 71124.03		In-Plant Airborne Radioactivity Control and Mitigation	
			<b>EP PROGR</b>	- EP PR	OGRAM INSPECTION	1
2, 3	02/25/2013	03/01/2013	IP 7111402		Alert and Notification System Testing	
2, 3	02/25/2013	03/01/2013	IP 7111403		Emergency Preparedness Organization Staffing and Augmentation System	
2, 3	02/25/2013	03/01/2013	IP 7111404		Emergency Action Level and Emergency Plan Changes	
2, 3	02/25/2013	03/01/2013	IP 7111405		Correction of Emergency Preparedness Weaknesses and Deficiencies	
			7/15 EXM	- PEACH	I BOTTOM LSRO INITIAL EXAM	2
2	06/24/2013	06/28/2013	U01878		FY13-PEACH BOTTOM LSRO INITIAL OPERATOR LICENSING EXAM	
2	07/15/2013	07/19/2013	U01878		FY13-PEACH BOTTOM LSRO INITIAL OPERATOR LICENSING EXAM	
			60855	- ISFSI L	OADING INSPECTION	2
2, 3	03/01/2013	06/30/2013	IP 60855		Operation Of An ISFSI	
2, 3	03/01/2013	06/30/2013	IP 60855.1		Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			7111107T	- TRIENI	NIAL HEAT SINK	1
2, 3	03/11/2013	03/15/2013	IP 7111107T		Heat Sink Performance	
			PI&R	- PI&R		4
2, 3	05/06/2013	05/10/2013	IP 71152B		Problem Identification and Resolution	
2, 3	05/20/2013	05/24/2013	IP 71152B		Problem Identification and Resolution	
			7111117	- PERMA	ANENT PLANT MODIFICATIONS	4
2, 3	05/20/2013	05/24/2013	IP 7111117T		Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
2, 3	06/03/2013	06/07/2013	IP 7111117T		Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			71124.07	- REMP		1
2, 3	06/24/2013	06/28/2013	IP 71124.07		Radiological Environmental Monitoring Program	
			71124	- HP		1
2, 3	07/29/2013	08/02/2013	IP 71124.01		Radiological Hazard Assessment and Exposure Controls	
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	
			2561	- SAFST		1
1	07/29/2013	07/31/2013	IP 36801		Organization, Management, And Cost Controls At Permanently Shutdown Reactors	

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

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			2561	- SAFST	OR	1
1	07/29/2013	07/31/2013	IP 37801		Safety Reviews, Design Changes, And Modifications At Permanently Shutdown Reactors	
1	07/29/2013	07/31/2013	IP 40801		Self-Assessment, Auditing, And Corrective Action At Permanently Shutdown Reactors	
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1	07/29/2013	07/31/2013	IP 71801		Decommissioning Performance And Status Review At Permanently Suhutdown Reactors	
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1	07/29/2013	07/31/2013	IP 86750		Solid Radioactive Waste Management And Transportation Of Radioactive Materials	
			7111108G	- U3 INS	ERVICE INSPECTION	1
3	09/16/2013	09/20/2013	IP 71111080	3	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	- RADW	ASTE	1
2, 3	10/21/2013	10/25/2013	IP 71124.08		Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	