



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

March 5, 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: ANNUAL ASSESSMENT LETTER FOR PEACH BOTTOM ATOMIC POWER
STATION (REPORT 05000277/2011001 and 05000278/2011001)

Dear Mr. Pacilio:

On February 13, 2012, the U. S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of the 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, 2011, through December 31, 2011. 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 performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

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 June 30, 2013. 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. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. In addition to the baseline inspection program, we plan to conduct Inspection Procedure (IP) 71003, "Post-Approval Site Inspection For License Renewal," and Temporary Instruction (TI) TI-182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks." From January 1, 2011, to December 31, 2011, the NRC issued one severity level IV (SLIV) traditional enforcement violation associated with impeding the regulatory process related to a change in the Emergency Action Level basis (ML112560014). The NRC has

already conducted an IP 92702, "Followup on Corrective Actions for Violations and Deviations," inspection to follow-up on this violation as documented in inspection report 50-277/2011005 and 50-278/2011005 (ML12041A323). The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

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 <http://www.nrc.gov/reading-rm/adams.html> (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:
Inspection Plan

cc w/encl: Distribution via ListServ

already conducted an IP 92702, "Followup on Corrective Actions for Violations and Deviations," inspection to follow-up on this violation as documented in inspection report 50-277/2011005 and 50-278/2011005 (ML12041A323). The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

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/RA/

Paul G. Krohn, Chief
Division of Reactor Projects
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Docket Nos. 50-277, 50-278
License Nos. DPR-44, DPR-56

Enclosure: Inspection Plan

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Per email *

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Peach Bottom
Inspection / Activity Plan
01/01/2012 - 06/30/2013

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			EP - EP ANNUAL REPORT		4
2,3	01/01/2012	12/31/2012	IP 7111406	Drill Evaluation	
			71124 - HP		1
2,3	01/09/2012	01/13/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	01/09/2012	01/13/2012	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	01/09/2012	01/13/2012	IP 71124.05	Radiation Monitoring Instrumentation	
			EP EX - EP EXERCISE EVALUATION		5
2,3	03/26/2012	03/30/2012	IP 7111401	Exercise Evaluation	
2,3	03/26/2012	03/30/2012	IP 7111404	Emergency Action Level and Emergency Plan Changes	
			TRI FI - TRIENNIAL FIRE PROTECTION INSPECTION		7
2,3	04/30/2012	05/04/2012	IP 7111105T	Fire Protection [Triennial]	
2,3	05/14/2012	05/18/2012	IP 7111105T	Fire Protection [Triennial]	
			7111111B - PB/LIM LSRO REQUAL INSPECTION		2
2,3	06/18/2012	06/22/2012	IP 7111111B	Licensed Operator Requalification Program	
			71124 - HP		1
2,3	05/14/2012	05/18/2012	IP 60855	Operation Of An ISFSI	
2,3	05/14/2012	05/18/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	05/14/2012	05/18/2012	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	05/14/2012	05/18/2012	IP 71124.04	Occupational Dose Assessment	
			2561 - SAFSTOR INSPECTION		1
1	07/01/2012	09/30/2012	IP 36801	Organization, Management, And Cost Controls At Permanently Shutdown Reactors	
1	07/01/2012	09/30/2012	IP 37801	Safety Reviews, Design Changes, And Modifications At Permanently Shutdown Reactors	
1	07/01/2012	09/30/2012	IP 40801	Self-Assessment, Auditing, And Corrective Action At Permanently Shutdown Reactors	
1	07/01/2012	09/30/2012	IP 62801	Maintenance And Surveillance At Permanently Shutdown Reactors	
1	07/01/2012	09/30/2012	IP 71801	Decommissioning Performance And Status Review At Permanently Shutdown Reactors	
1	07/01/2012	09/30/2012	IP 83750	Occupational Radiation Exposure	
1	07/01/2012	09/30/2012	IP 84750	Radioactive Waste Treatment, And Effluent And Environmental Monitoring	
1	07/01/2012	09/30/2012	IP 86750	Solid Radioactive Waste Management And Transportation Of Radioactive Materials	
			7111108G - U2 INSERVICE INSPECTION		1
2	09/17/2012	09/21/2012	IP 7111108G	Inservice Inspection Activities - BWR	
			71003 - LR COMMITMENTS INSP - PHASE I		2
2	09/17/2012	09/21/2012	IP 71003	Post-Approval Site Inspection for License Renewal	
			71124 - HP		1
2	09/17/2012	09/21/2012	IP 71124.01	Radiological Hazard Assessment and Exposure 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
 01/01/2012 - 06/30/2013

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			71124 - HP		1
2	09/17/2012	09/21/2012	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	09/17/2012	09/21/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			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	
			TI 182 - DEGRADATION OF UNDERGROUND PIPING		1
2,3	12/10/2012	12/14/2012	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
			EP PROGR - EP PROGRAM INSPECTION		1
2,3	01/14/2013	01/18/2013	IP 7111402	Alert and Notification System Testing	
2,3	01/14/2013	01/18/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
2,3	01/14/2013	01/18/2013	IP 7111404	Emergency Action Level and Emergency Plan Changes	
			71003 - U2 LR 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	
			7111111B - PEACH BOTTOM REQUAL WITH P/F RESULTS		2
2,3	03/04/2013	03/08/2013	IP 7111111B	Licensed Operator Requalification Program	
			EP - EP ANNUAL REPORT		4
2,3	01/01/2013	12/31/2013	IP 7111406	Drill Evaluation	
			71124 - 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	
			7/15 EXM - PEACH BOTTOM LSRO INITIAL EXAM		2
2	06/24/2013	06/28/2013	U01878	FY13-PEACH BOTTOM LSRO INITIAL OPERATOR LICENSING EXAM	
			PI&R - PI&R		4
2,3	03/04/2013	03/08/2013	IP 71152B	Problem Identification and Resolution	
2,3	03/18/2013	03/22/2013	IP 71152B	Problem Identification and Resolution	
			60855 - OPERATION OF AN ISFSI		2
2,3	03/01/2013	06/30/2013	IP 60855	Operation Of An ISFSI	

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Peach Bottom
Inspection / Activity Plan
01/01/2012 - 06/30/2013

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			7111107T - TRIENNIAL HEAT SINK		1
2,3	03/11/2013	03/15/2013	IP 7111107T	Heat Sink Performance	
			7111117 - PERMANENT PLANT MODIFICATIONS		3
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	

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