

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

September 1, 2010

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 - PEACH BOTTOM ATOMIC POWER STATION UNITS 2 and 3

Dear Mr. Pacilio:

On August 11, 2010, the Nuclear Regulatory Commission staff completed its performance review of Peach Bottom Atomic Power Station (PBAPS). Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2009 through June 30, 2010. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

The performance review and enclosed inspection plan do not include physical protection information. A separate letter designated and marked as "Official Use Only-Security Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at Peach Bottom Units 2 and 3, as well as the first three quarters of the assessment cycle, was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. We also plan on conducting infrequently performed inspection procedures (IPs) which include IP 60855, "Operation of an ISFSI' and IP 92702, "Follow-up on Corrective Actions for Violations and Deviations."

Regarding IP 92702, the staff issued a Confirmatory Order to Exelon on December 1, 2009, formalizing an agreement reached through the NRC's Alternative Dispute Resolution process regarding two acts of deliberate misconduct (ML093350150). As discussed in the previous annual assessment letter (ML100621009) and in accordance with this Confirmatory Order, the NRC will conduct the IP 92702 follow-up inspection to review the corrective actions associated with these issues.

M. Pacilio

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2011. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle review.

In accordance with 10 CFR Part 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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 <u>http://www.nrc.gov/reading-rm/adams.html</u> (the Public Electronic Reading Room).

If circumstances arise which causes us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (610) 337-5120 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

Paul & Kichn

Paul G. Krohn, Chief Division of Reactor Projects Projects Branch 4

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

Enclosure: Peach Bottom Inspection/Activity Plan

cc w/encl: Distribution via ListServ

M. Pacilio

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Sincerely /RA/ Paul G. Krohn, Chief Reactor Projects Branch 4 Division of Reactor Projects

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

Enclosure: Peach Bottom Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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SUNSI REVIEW COMPLETE: <u>AAR</u> (Reviewer's initials)

ML102440413

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Peach Bottom Inspection / Activity Plan 07/01/2010 - 12/31/2011

Unit	Planne	d Dates	ł		No. of Staff
Number	Start	End	Inspection Activity		on Site
			EP - EP /	ANNUAL REPORT	4
2,3	01/01/2010	12/31/2010	IP 7111406	Drill Evaluation	
			07/12EXM - LSR	O OPERATOR LICENSING EXAM	3
2	07/26/2010	07/30/2010	U01795	FY-10 PEACH BOTTOM LSRO INITIAL OPERATOR LICENSING EXAM	
			RETS - HP-I	EFFULENTS / ISFSI / INSTRUMENTS	1
2,3	08/02/2010	08/06/2010	IP 60855	Operation Of An ISFSI	
2,3	08/02/2010	08/06/2010	IP 71124.05	Radiation Monitoring Instrumentation	
2,3	08/02/2010	08/06/2010	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			TI-173 - GRC	DUND WATER TI	1
2,3	08/02/2010	08/06/2010	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
			2561 - DEC	COMMISSIONING PWR RXR INSPECT PROG	1
1	08/09/2010	08/13/2010	IP 36801	Organization, Management, And Cost Controls At Permanently Shutdown Reactors	
1	08/09/2010	08/13/2010	IP 37801	Safety Reviews, Design Changes, And Modifications At Permanently Shutdown Reactors	
1	08/09/2010	08/13/2010	IP 40801	Self-Assessment, Auditing, And Corrective Action At Permanently Shutdown Reactors	
1	08/09/2010	08/13/2010	IP 62801	Maintenance And Surveillance At Permanenly Shutdown Reactors	
1	08/09/2010	08/13/2010	IP 71801	Decommissioning Performance And Status Revierw At Permanently Suhutdown Reactors	
1	08/09/2010	08/13/2010	IP 83750	Occupational Radiation Exposure	
1	08/09/2010	08/13/2010	IP 84750	Radioactive Waste Treatment, And Effluent And Environmental Monitoring	
1	08/09/2010	08/13/2010	1P 86750	Solid Radioactive Waste Management And Transportation Of Radioactive Materials	
1	08/09/2010	08/13/2010	IP 92702	Followup On Corrective Actions For Violations And Deviations	
			HP - ALA	ARA/AIR/DOSE/INSTRUMENTS	1
2,3	08/23/2010	08/27/2010	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	08/23/2010	08/27/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2,3	08/23/2010	08/27/2010	IP 71124.04	Occupational Dose Assessment	
2, 3	08/23/2010	08/27/2010	IP 71124.05	Radiation Monitoring Instrumentation	
			7111108G - U2 I	INSERVICE INSPECTION	1
2	09/20/2010	09/24/2010	IP 7111108G	Inservice Inspection Activities - BWR	
			OUTAGE - ACC	CESS/ALARA/AIR/DOSE/INST	1
2, 3	09/20/2010	09/24/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	09/20/2010	09/24/2010	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	09/20/2010	09/24/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2,3	09/20/2010	09/24/2010	IP 71124.04	Occupational Dose Assessment	
2,3	09/20/2010	09/24/2010	IP 71124.05	Radiation Monitoring Instrumentation	
			01/31EXM - OPE	ERATOR LICENSING INITIAL EXAMS	5
2	01/03/2011	01/07/2011	U01769	FY11 - PEACH BOTTOM UNITS 2&3 INITIAL OPERATOR LICENSING EXAM	
,			This repo	rt does not include INPO and OUTAGE activities	

This report does not include INPO and OUTAGE activities. This report shows only on-site and announced inspection procedures. Page 2 of 3

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Peach Bottom Inspection / Activity Plan

07/01/2010 - 12/31/2011

Unit umber	Planne Start	d Dates End	Inspection Activity	Title	No. of Staff on Site
		i Altais de sivisit de la constata de sist		ATOR LICENSING INITIAL EXAMS	5
2	01/31/2011	02/11/2011	U01769	FY11 - PEACH BOTTOM UNITS 2&3 INITIAL OPERATOR LICENSING EXAM	Ū
-	0110112011			SS/ALARA/PI	1
2,3	10/25/2010	10/29/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	10/25/2010	10/29/2010	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	10/25/2010	10/29/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
2,3	10/25/2010	10/29/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
, -				EOUT - WILLFUL MISCONDUCT CONF ORDER	1
2,3	10/29/2010	12/31/2010	IP 92702	Followup On Corrective Actions For Violations And Deviations	
			TI-177 - MANA	GING GAS ACCUMULATION IN ECCS	3
2,3	11/29/2010	12/03/2010	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
			EP - EP AN	NUAL REPORT	4
2,3	01/01/2011	12/31/2011	IP 7111406	Drill Evaluation	
			7111118 - PB RE	QUAL INSP W/P/F RESULTS	3
2,3	03/07/2011	03/11/2011	IP 7111111B	Licensed Operator Requalification Program	
			EP PROGR - EP PR	OGRAM INSPECTION	1
2,3	01/31/2011	02/04/2011	IP 7111402	Alert and Notification System Testing	
2,3	01/31/2011	02/04/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	•
2, 3	01/31/2011	02/04/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
2,3	01/31/2011	02/04/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
2,3	01/31/2011	02/04/2011	IP 71151-EP01	Drill/Exercise Performance	
2,3	01/31/2011	02/04/2011	IP 71151-EP02	ERO Drill Participation	
2, 3	01/31/2011	02/04/2011	IP 71151-EP03	Alert & Notification System	
			7111121 - CDBI		6
2, 3	02/14/2011	02/18/2011	IP 7111121	Component Design Bases Inspection	
2, 3	02/28/2011	03/04/2011	IP 7111121	Component Design Bases Inspection	
2,3	03/07/2011	03/11/2011	IP 7111121	Component Design Bases Inspection	
			TI-179 - TI-179	- NSTS TEMPORARY INSPECTION	1
2,3	04/04/2011	04/08/2011	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
			RADWASTE - RAD W	VASTE	1
2,3	04/04/2011	04/08/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			60855 - ISFSI (CAMPAING LOADING INSPECTION	1
2,3	04/01/2011	06/30/2011	IP 60855	Operation Of An ISFSI	
			HP-71124 - HP- /IN	ISTRUMENTS/REMP/ISFSI	1
2,3	06/06/2011	06/10/2011	IP 60855	Operation Of An ISFSI	

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Peach Bottom Inspection / Activity Plan 07/01/2010 - 12/31/2011

Unit Number	Pianne Start	d Dates End	Inspection Ac	tivity I Title	No. of Staff on Site
- Million and Anna Anna Anna Anna Anna Anna Anna				HP- /INSTRUMENTS/REMP/ISFSI	1
2,3	06/06/2011	06/10/2011	IP 71124.05	Radiation Monitoring Instrumentation	
2,3	06/06/2011	06/10/2011	IP 71124.07	Radiological Environmental Monitoring Program	
			71152B ·	PI&R	4
2,3	07/25/2011	07/29/2011	IP 71152B	Identification and Resolution of Problems	
2,3	08/08/2011	08/12/2011	IP 71152B	Identification and Resolution of Problems	
			HP-71124	HP-ALARA/AIR/DOSE/INSTRUMENTS/ACCESS	1
2,3	08/22/2011	08/26/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	08/22/2011	08/26/2011	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	08/22/2011	08/26/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2,3	08/22/2011	08/26/2011	IP 71124.04	Occupational Dose Assessment	
2,3	08/22/2011	08/26/2011	IP 71124.05	Radiation Monitoring Instrumentation	
			HP-71124	ACCESS/ALARA/AIR/DOSE/INSTRUMENTS	1
2,3	09/19/2011	09/23/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	09/19/2011	09/23/2011	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	09/19/2011	09/23/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
. 2,3	09/19/2011	09/23/2011	IP 71124.04	Occupational Dose Assessment	
2,3	09/19/2011	09/23/2011	IP 71124.05	Radiation Monitoring Instrumentation	
			7111108G	- U3 INSERVICE INSPECTION	1
3	09/19/2011	09/23/2011	IP 7111108G	Inservice Inspection Activities - BWR	
			HP-71124	- ACCESS/ALARA/DOSE/PI	1
2, 3	11/14/2011	11/18/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	11/14/2011	11/18/2011	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	11/14/2011	11/18/2011	IP 71124.04	Occupational Dose Assessment	
3	11/14/2011	11/18/2011	IP 71151-OR	01 Occupational Exposure Control Effectiveness	
2	11/14/2011	11/18/2011	IP 71151-PR(01 RETS/ODCM Radiological Effluent	

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