

UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PENNSYLVANIA 19406-1415

September 1, 2011

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 LETTER FOR PEACH BOTTOM ATOMIC POWER STATION

(05000277/2011006 and 05000278/2011006)

Dear Mr. Pacilio:

On August 9, 2011, the NRC completed its mid-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 July 1, 2010, through June 30, 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 December 31, 2012. 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. In addition to the baseline inspection program, we plan to conduct Inspection Procedure (IP) 71003, "Post-Approval Site Inspection For License Renewal." From July 1, 2010, to June 30, 2011, the NRC issued one severity level IV (SLIV) traditional enforcement non-cited violation associated with a former contract employee failing to provide information about a positive fitness-for-duty test (ML102590516 and ML103140643)¹. The NRC followed-up on this non-cited violation during the Biennial Problem Identification and Resolution Team Inspection completed on August 12, 2011. The results of this inspection will be documented in NRC Inspection Report 05000277 &

¹ Designation in parenthesis refers to an ADAMS accession number. Documents referenced in this letter are publicly available using the accession number in ADAMS.

288/2011010. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In the days following the Fukushima Daiichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Daiichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)," at your facility. Results of these inspections can be found here: http://www.nrc.gov/japan/japan-activities.html. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21st Century: The Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident." The NRC is currently reviewing the Task Force's recommendations to determine what additional actions may be warranted.

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,

Paul G. Krohn, Chief Division of Reactor Projects

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Projects Branch 4

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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In the days following the Fukushima Daiichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Daiichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)," at your facility. Results of these inspections can be found here: http://www.nrc.gov/japan/japan-activities.html. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21st Century: The Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident." The NRC is currently reviewing the Task Force's recommendations to determine what additional actions may be warranted.

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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 Distribution: see attached page

SUNSI REVIEW COMPLETE: AAR (Reviewer's Initials)

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NAME	SLHansell/AAR for *	AARosebrook/AAR*	PGKrohn/PGK
DATE	08/15/11	08/15/11	08/ 18 /11

^{*}See Previous Concurrence OFFICIAL RECORD COPY

M. Pacilio 3

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Report 22

Peach Bottom

Inspection / Activity Plan

07/01/2011 - 12/31/2012

Unit	Planne	d Dates	l			No. of Staff
Number	Start	End	Inspection A	ctivity	Title	on Site
			EP	- EP AN	NUAL REPORT	4
2,3	01/01/2011	12/31/2011	IP 7111406		Drill Evaluation	
			71152B	- PI&R		5
2,3	07/25/2011	07/29/2011	IP 71152B		Problem Identification and Resolution	
2,3	08/08/2011	08/12/2011	IP 71152B		Problem Identification and Resolution	
			MC 2561	- SAFST	OR INSPECTION .	1
1	08/08/2011	08/12/2011	IP 36801		Organization, Management, And Cost Controls At Permanently Shutdown Reactors	
1	08/08/2011	08/12/2011	IP 37801		Safety Reviews, Design Changes, And Modifications At Permanently Shutdown Reactors	
1	08/08/2011	08/12/2011	IP 40801		Self-Assessment, Auditing, And Corrective Action At Permanently Shutdown Reactors	
1	08/08/2011	08/12/2011	IP 62801		Maintenance And Surveillance At Permanenly Shutdown Reactors	
1	08/08/2011	08/12/2011	IP 71801		Decommissioning Performance And Status Review At Permanently Suhutdown Reactors	
1	08/08/2011	08/12/2011	IP 83750		Occupational Radiation Exposure	
1	08/08/2011	08/12/2011	IP 84750		Radioactive Waste Treatment, And Effluent And Environmental Monitoring	
1	08/08/2011	08/12/2011	IP 86750		Solid Radioactive Waste Management And Transportation Of Radioactive Materials	
			HP-71124	- HP-AL	ARA/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	1	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	i	Radiation Monitoring Instrumentation	
			HP-71124	- ACCE	SS/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	3	In-Plant Airborne Radioactivity Control and Mitigation	
2,3	09/19/2011	09/23/2011	IP 71124.04	ļ	Occupational Dose Assessment	
2, 3	09/19/2011	09/23/2011	IP 71124.05	5	Radiation Monitoring Instrumentation	
			7111108G	- U3 INS	SERVICE INSPECTION	1
3	09/19/2011	09/23/2011	IP 7111108	G	Inservice Inspection Activities - BWR	
			HP-71124	- ACCE	SS/ALARA/DOSE/PI	1
2, 3	11/14/2011	11/18/2011	IP 71124.01	ļ	Radiological Hazard Assessment and Exposure Controls	
2, 3	11/14/2011	11/18/2011	IP 71124.02	2	Occupational ALARA Planning and Controls	
2, 3	11/14/2011	11/18/2011	IP 71124.04	ļ	Occupational Dose Assessment	
3	11/14/2011	11/18/2011	IP 71151-0	R01	Occupational Exposure Control Effectiveness	
2	11/14/2011	11/18/2011	IP 71151-PI	R01	RETS/ODCM Radiological Effluent	

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

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Peach Bottom

Inspection / Activity Plan

Report 22

07/01/2011 - 12/31/2012

Unit	Planne	d Dates			No. of Staff
Number	Start	End	Inspection A	ctivity	on Site
			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	
			HP-71124	- ALARA/AIR/DOSE/ACCESS	1
2,3	04/09/2012	04/13/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	04/09/2012	04/13/2012	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	04/09/2012	04/13/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2,3	04/09/2012	04/13/2012	IP 71124.04	Occupational Dose Assessment	
			TRI FI	- TRIENNIAL FIRE PROTECTION INSPECTION	6
2,3	04/30/2012	05/04/2012	IP 2515/175	Emergency Response Organization, Drill/Exercise Performance Indicator, Program Review	
2,3	05/14/2012	05/18/2012	IP 7111105T	Fire Protection [Triennial]	
			HP-71124	- ACCESS/ALARA/DOSE/INSTRUMENTS	1
2,3	06/04/2012	06/08/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	06/04/2012	06/08/2012	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	06/04/2012	06/08/2012	IP 71124.04	Occupational Dose Assessment	
2,3	06/04/2012	06/08/2012	IP 71124.05	Radiation Monitoring Instrumentation	
			HP-71124	- ALARA/AIR/DOSE/INSTRUMENTS/ACCESS	1
2,3	07/09/2012	07/13/2012	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
2,3	07/09/2012	07/13/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	07/09/2012	07/13/2012	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	07/09/2012	07/13/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	07/09/2012	07/13/2012	IP 71124.04	Occupational Dose Assessment	
2, 3	07/09/2012	07/13/2012	IP 71124.05	Radiation Monitoring Instrumentation	
			2561	- SAFSTOR INSPECTION	1
1	07/30/2012	08/17/2012	IP 36801	Organization, Management, And Cost Controls At Permanently Shutdown Reactors	
1	07/30/2012	08/17/2012	IP 37801	Safety Reviews, Design Changes, And Modifications At Permanently Shutdown Reactors	
1	07/30/2012	08/17/2012	IP 40801	Self-Assessment, Auditing, And Corrective Action At Permanently Shutdown Reactors	
1	07/30/2012	08/17/2012	IP 62801	Maintenance And Surveillance At Permanenly Shutdown Reactors	
1	07/30/2012	08/17/2012	IP 71801	Decommissioning Performance And Status Revierw At Permanently Suhutdown Reactors	
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1	07/30/2012	08/17/2012	IP 84750	Radioactive Waste Treatment, And Effluent And Environmental Monitoring	
1	07/30/2012	08/17/2012	IP 86750	Solid Radioactive Waste Management And Transportation Of Radioactive Materials	
			71003	- LR COMMITMENTS INSP - OUTAGE	2
2	09/17/2012	09/21/2012	IP 71003	Post-Approval Site Inspection for License Renewal	

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11:49:11

Peach Bottom

Inspection / Activity Plan

07/01/2011 - 12/31/2012

Unit		d Dates			No. of Staff
Number	Start	End	Inspection Activi	Title Title	on Site
			7111108G - U2	INSERVICE INSPECTION	1
2	09/17/2012	09/21/2012	IP 7111108G	Inservice Inspection Activities - BWR	
			HP-71124 - AL	ARA/AIR/DOSE/INSTRUMENTS/ACCESS	1
2,3	09/24/2012	09/28/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	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	
2,3	09/24/2012	09/28/2012	IP 71124.04	Occupational Dose Assessment	
2, 3	09/24/2012	09/28/2012	IP 71124.05	Radiation Monitoring Instrumentation	
			HP-71124 - AL	ARA/AIR/DOSE/INSTRUMENTS/ACCESS	1
2,3	10/15/2012	10/19/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	10/15/2012	10/19/2012	IP 71124.02	Occupational ALARA Planning and Controls	
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2, 3	10/15/2012	10/19/2012	IP 71124.04	Occupational Dose Assessment	
2,3	10/15/2012	10/19/2012	IP 71124.05	Radiation Monitoring Instrumentation	
			HP-71124 - AL	ARA/AIR/DOSE/INSTRUMENTS/ACCESS	1
2, 3	12/03/2012	12/07/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	12/03/2012	12/07/2012	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	12/03/2012	12/07/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2,3	12/03/2012	12/07/2012	IP 71124.04	Occupational Dose Assessment	
2,3	12/03/2012	12/07/2012	IP 71124.05	Radiation Monitoring Instrumentation	
2,3	12/03/2012	12/07/2012	IP 71151-PR01	RETS/ODCM Radiological Effluent	