

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

March 4, 2009

Mr. Charles G. Pardee Senior Vice President, Exelon Generation Company, LLC President and Chief Nuclear Officer, Exelon Nuclear 4300 Winfield Rd. Warrenville, IL 60555

SUBJECT: ANNUAL ASSESSMENT LETTER – PEACH BOTTOM ATOMIC POWER STATION (REPORT 05000277/2009001 AND 05000278/2009001)

Dear Mr. Pardee:

On February 10, 2009, the NRC Staff completed its performance review of the Peach Bottom Atomic Power Station. Our technical staff reviewed Peach Bottom performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2008. 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.

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

Overall, Peach Bottom Units 2 and 3 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for 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.

The staff identified four inspection findings for the current twelve month assessment period with a documented cross-cutting theme in the aspect of document and procedure adequacy $(H.2(c))^1$. The NRC first identified this theme in our mid-cycle assessment letter dated September 2, 2008 [ML082470454]² and concluded that a substantive crosscutting issue did not exist because you recognized the theme and had taken or had scheduled to take appropriate corrective actions. During this assessment period, we reviewed your corrective action plan and identified no concerns with your implementation. Furthermore, in the last six months of this assessment period, the staff identified no inspections findings with this aspect, which reflects an

¹ This is a descriptor which correlates to the cross cutting aspect in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program". ² Designation in parentheses refers to an ADAMS asconsion number. Designed to this latitude as a bit is the latitude as a bi

² Designation in parentheses refers to an ADAMS ascension number. Documents referenced in this letter are publicly available using the ascension number in ADAMS.

C. Pardee

improving trend. Therefore, the NRC determined that a substantive crosscutting issue in the area of Human Performance does not exist at this time. The NRC will continue to monitor Exelon's progress in addressing the human performance cross-cutting theme through baseline inspections.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2010. In addition to the baseline inspections, we plan on conducting inspections of your independent spent fuel storage installation. 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 mid-cycle review.

In accordance with 10 CFR 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 http://www.nrc.gov/reading-rm/adams.html (the Public Electronic Reading Room).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the changes 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,

/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 Inspection/Activity Plan

cc w/encl:

- C. Crane, President and Chief Operating Officer, Exelon Corporation
- M. Pacilio, Chief Operating Officer, Exelon Nuclear
- W. Maguire, Site Vice President, Peach Bottom
- R. DeGregorio, Senior Vice President, Mid-Atlantic
- R. Hovey, Senior Vice President, Nuclear Oversight
- G. Stathes, Plant Manager, Peach Bottom
- J. Armstrong, Regulatory Assurance Manager, Peach Bottom
- J. Bardurski, Manager, Financial Control & Co-Owner Affairs
- R. Franssen, Director, Operations
- P. Cowan, Director, Licensing
- D. Helker, Licensing
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- J. Bradley Fewell, Associate General Counsel, Exelon

T. Wasong, Director, Training

Correspondence Control Desk

D. Allard, Director, Bureau of Radiation Protection, PA Department of Environmental Protection

S. Gray, Power Plant and Environmental Review Division (MD)

S. Pattison, Secretary, MD Department of the Environment

M. Griffen, Maryland Department of Environment

A. Lauland, Director, Homeland Security Advisor

Public Service Commission of Maryland, Engineering Division

Board of Supervisors, Peach Bottom Township

B. O'Connor, Council Administrator of Harford County Council

R. Ayers, Deputy Mgr, Harford County Div of Emergency Operations

E. Crist, Harford County Div of Emergency Operations

S. Ayers, Emergency Planner, Harford County Div of Emergency Operations

R. Brooks, Cecil County Dept of Emergency Services

Mr & Mrs Dennis Hiebert, Peach Bottom Alliance

E. Epstein, TMI - Alert

J. Johnsrud, National Energy Committee, Sierra Club

Mr. & Mrs. Kip Adams

R. Fletcher, Dir, MD Environmental Program Manager, Radiological Health Program

J. Powers, Director, PA Office of Homeland Security

R. French, Dir, PA Emergency Management Agency

Director, Nuclear Safety Project, Union of Concerned Scientists

Institute for Nuclear Power Operations (INPO)

conducting inspections of your independent spent fuel storage installation. 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 mid-cycle review.

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

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SUNSI REVIEW COMPLETE: <u>PGK</u> (Reviewer's Initials)

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Peach Bottom **Inspection / Activity Plan** 01/01/2009 - 06/30/2010

Unit	Planne	d Dates				No. of Staff
Number	Start	End	Inspection A	ctivity	Title	on Site
			711111B	- BIENNI	AL REQUAL INSP WITH P/F RESULTS	3
2,3	03/02/2009	03/06/2009	IP 7111111B	3	Licensed Operator Requalification Program	
TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION 3						
2,3	03/16/2009	03/20/2009	IP 7111105T		Fire Protection [Triennial]	
2,3	03/30/2009	04/03/2009	IP 7111105T	-	Fire Protection [Triennial]	
			71121	- OCC R/	AD	1
2,3	04/20/2009	04/24/2009	IP 7112101		Access Control to Radiologically Significant Areas	
2,3	04/20/2009	04/24/2009	IP 7112102		ALARA Planning and Controls	
2,3	04/20/2009	04/24/2009	IP 7112103		Radiation Monitoring Instrumentation and Protective Equipment	
			71121		AD SAFETY	1
2,3	07/13/2009	07/17/2009	IP 7112101		Access Control to Radiologically Significant Areas	
2,3	07/13/2009	07/17/2009	IP 7112102		ALARA Planning and Controls	
2,3	07/13/2009	07/17/2009	IP 7112103		Radiation Monitoring Instrumentation and Protective Equipment	
			71152B	- PI&R B	IENNIAL TEAM	4
2,3	07/20/2009	07/24/2009	IP 71152B		Identification and Resolution of Problems	
2,3	08/03/2009	08/07/2009	IP 71152B		Identification and Resolution of Problems	
				- EP PRC	OGRAM INSPECTION	2
2,3	07/27/2009	07/31/2009	IP 7111402		Alert and Notification System Testing	
2,3	07/27/2009	07/31/2009	IP 7111403		Emergency Response Organization Augmentation Testing	
2,3	07/27/2009	07/31/2009	IP 7111404		Emergency Action Level and Emergency Plan Changes	
2,3	07/27/2009	07/31/2009	IP 7111405		Correction of Emergency Preparedness Weaknesses and Deficiencies	
2,3	07/27/2009	07/31/2009	IP 71151		Performance Indicator Verification	
			71122	- REMP		1
2,3	07/27/2009	07/31/2009	IP 7112203		Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
				- SAFST	OR INSPECTION	1
1	08/10/2009	08/13/2009	IP 37801		Safety Reviews, Design Changes, And Modifications At Permanently Shutdown Reactors	
1	08/10/2009	08/13/2009	IP 62801		Maintenance And Surveillance At Permanenly Shutdown Reactors	
1	08/10/2009	08/13/2009	IP 71801		Decommissioning Performance And Status Revierw At Permanently Suhutdown Reactors	
1	08/10/2009	08/13/2009	IP 83750		Occupational Radiation Exposure	
1	08/10/2009	08/13/2009	IP 84750		Radioactive Waste Treatment, And Effluent And Environmental Monitoring	
1	08/10/2009	08/13/2009	IP 86750		Solid Radioactive Waste Management And Transportation Of Radioactive Materials	
1	08/10/2009	08/13/2009	IP 92702		Followup On Corrective Actions For Violations And Deviations	
					ERVICE INSPECTION	1
3	09/21/2009	09/25/2009	IP 7111108G	3	Inservice Inspection Activities - BWR	

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

01/01/2009 - 06/30/2010

Unit Planned Dates Number Start End					N	ა. of წ	Staff	7
		Inspection Activity		Title		on Si	te	
		71121	- OCC R	AD SAFETY			1	
09/21/2009	09/25/2009	IP 7112101		Access Control to Radiologically Significant Areas				
09/21/2009	09/25/2009	IP 7112102		ALARA Planning and Controls				
09/21/2009	09/25/2009	IP 7112103		Radiation Monitoring Instrumentation and Protective Equipment				
		71121	- OCC R	AD SAFETY & ISFSI			1	
11/16/2009	11/20/2009	IP 60855		Operation Of An ISFSI				
11/16/2009	11/20/2009	IP 7112101		Access Control to Radiologically Significant Areas				
11/16/2009	11/20/2009	IP 7112102		ALARA Planning and Controls				
11/16/2009	11/20/2009	IP 7112103		Radiation Monitoring Instrumentation and Protective Equipment				
11/16/2009	11/20/2009	IP 71151		Performance Indicator Verification				
		ISFSI	- ANNU	AL SAMPLE ISFSI INSPECTION			1	
01/01/2010	12/31/2010	IP 60855		Operation Of An ISFSI				
		MODS	- PERM				3	
03/01/2010	03/05/2010	IP 7111117T		Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications				
03/15/2010	03/19/2010	IP 7111117T		Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications				
		7111107T	- TRIEN				1	
05/17/2010	05/21/2010							
			- EFFUL				1	
06/14/2010	06/18/2010	-						
							1	
06/14/2010	06/18/2010							
			- EP EX				1	
		-						
		-						
06/21/2010	06/25/2010			Drill/Exercise Performance				
06/21/2010	06/25/2010	IP 71151-EP	202	ERO Drill Participation				
06/21/2010	06/25/2010	IP 71151-EP	203	Alert & Notification System				
	Start 09/21/2009 09/21/2009 09/21/2009 09/21/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 11/16/2009 01/01/2010 03/01/2010 03/15/2010 05/17/2010 06/14/2010 06/21/2010 06/21/2010 06/21/2010 06/21/2010	Start End 09/21/2009 09/25/2009 09/21/2009 09/25/2009 09/21/2009 09/25/2009 09/21/2009 09/25/2009 11/16/2009 11/20/2009 11/16/2009 11/20/2009 11/16/2009 11/20/2009 11/16/2009 11/20/2009 11/16/2009 11/20/2009 01/01/2010 12/31/2010 03/01/2010 03/05/2010 03/15/2010 03/05/2010 05/17/2010 05/21/2010 06/14/2010 06/18/2010 06/21/2010 06/25/2010 06/21/2010 06/25/2010 06/21/2010 06/25/2010 06/21/2010 06/25/2010 06/21/2010 06/25/2010	Start End Inspection A 09/21/2009 09/25/2009 IP 7112101 09/21/2009 09/25/2009 IP 7112102 09/21/2009 09/25/2009 IP 7112102 09/21/2009 09/25/2009 IP 7112103 09/21/2009 09/25/2009 IP 7112103 09/21/2009 09/25/2009 IP 7112103 09/21/2009 11/20/2009 IP 7112103 11/16/2009 11/20/2009 IP 7112102 11/16/2009 11/20/2009 IP 7112103 11/16/2009 11/20/2009 IP 7112103 11/16/2009 11/20/2009 IP 7112103 11/16/2009 11/20/2009 IP 7112103 01/01/2010 12/31/2010 IP 7111103 03/01/2010 03/05/2010 IP 71111177 03/15/2010 03/05/2010 IP 71111177 03/15/2010 05/21/2010 IP 71111077 05/17/2010 05/21/2010 IP 7111201 06/14/2010 06/18/2010 IP 7111201 06/21/2010 06/25/2010 IP 7111404	Start End Inspection Activity 09/21/2009 09/25/2009 IP 7112101 09/21/2009 09/25/2009 IP 7112102 09/21/2009 09/25/2009 IP 7112103 09/21/2009 09/25/2009 IP 7112103 09/21/2009 09/25/2009 IP 7112103 09/21/2009 09/25/2009 IP 7112103 09/21/2009 11/20/2009 IP 60855 11/16/2009 11/20/2009 IP 7112102 11/16/2009 11/20/2009 IP 7112103 11/16/2009 11/20/2009 IP 7112103 11/16/2009 11/20/2009 IP 7112103 11/16/2009 11/20/2009 IP 7112103 11/16/2009 11/20/2009 IP 7111107 03/01/2010 12/31/2010 IP 60855 MODS - PERMA 03/01/2010 03/05/2010 IP 7111117T 03/15/2010 03/05/2010 IP 71111107T RETS - EFFUL 06/14/2010 06/18/2010 IP 2515/173 EP EX - EP EX	Start End Inspection Activity Title 71121 - OCC RAD SAFETY 09/25/2009 IP 7112101 Access Control to Radiologically Significant Areas 09/21/2009 09/25/2009 IP 7112102 ALARA Planning and Controls 09/21/2009 09/25/2009 IP 7112103 Radiation Monitoring Instrumentation and Protective Equipment 71121 - OCC RAD SAFETY & ISFSI 11/16/2009 11/20/2009 IP 60855 Operation Of An ISFSI 11/16/2009 11/20/2009 IP 7112101 Access Control to Radiologically Significant Areas 11/16/2009 11/20/2009 IP 7112102 ALARA Planning and Controls 11/16/2009 11/20/2009 IP 7112103 Radiation Monitoring Instrumentation and Protective Equipment 11/16/2009 11/20/2009 IP 7112103 Radiation Monitoring Instrumentation and Protective Equipment 11/16/2009 11/20/2009 IP 7112103 Radiation Monitoring Instrumentation and Protective Equipment 11/16/2009 11/20/2009 IP 7111107 Access Control to Radiologically Significant Areas 01/01/2010 12/31/2010 IP 7111117 Evaluations of Changes, Tests, or Experiments	Start End Inspection Activity Title 71121 -OCC RAD SAFETY -OCC RAD SAFETY 09/21/2009 09/25/2009 IP 7112101 Access Control to Radiologically Significant Areas 09/21/2009 09/25/2009 IP 7112102 ALARA Planning and Controls 09/21/2009 09/25/2009 IP 7112102 ALARA Planning and Controls 09/21/2009 09/25/2009 IP 7112103 Radiation Monitoring Instrumentation and Protective Equipment 71121 - 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