

UNITED STATES NUCLEAR REGULATORY COMMISSION

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

August 31, 2007

Mr. Christopher M. Crane President and CNO Exelon Nuclear Exelon Generation Company, LLC 200 Exelon Way Kennett Square, PA 19348

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -

PEACH BOTTOM ATOMIC POWER STATION

Dear Mr. Crane:

On August 15, 2007, the NRC staff completed its performance review of Peach Bottom Atomic Power Station for the first half of the calendar year 2007 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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 "Official Use Only - Security Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter of 2007 at Peach Bottom Units 2 and 3 was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significant (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 an Independent Spent Fuel Storage Installation at Operating Plants inspection during May 2008.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2008. 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 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).

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The NRC is currently evaluating the scope and frequency of all the baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the 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 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:

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Public Service Commission of Maryland, Engineering Division

Board of Supervisors, Peach Bottom Township

B. Ruth, Council Administrator of Harford County Council

Mr. & Mrs. Dennis Hiebert, Peach Bottom Alliance

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Director, Licensing and Regulatory Affairs

J. Fewell, Assistant General Counsel

Institute of Nuclear Power Operations (INPO)

C. Crane 2

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Sincerely, *Iral*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

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SUNSI Review Complete: PGK (Reviewer's Initials)

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IP 83750

Peach Bottom Inspection / Activity Plan 07/01/2007 - 12/31/2008

Unit No. of Staff **Planned Dates** Inspection on Site Start End Type Number Inspection Activity Title 36801 - ORGANIZATION AND MANAGEMENT 1 IP 36801 Organization, Management, And Cost Controls At Permanently Shutdown Reactors 07/03/2007 07/05/2007 Other Routine 1 40801 - SELF ASSESSMENTS & CAP 1 IP 40801 Self-Assessment, Auditing, And Corrective Action At Permanently Shutdown Reactors 07/03/2007 07/05/2007 Other Routine 84750 - RADWSTE TRTMT & EFF & ENV 1 IP 84750 Radioactive Waste Treatment, And Effluent And Environmental Monitoring 07/03/2007 07/05/2007 Other Routine 86750 - RADWSTE MNGT & TRANS RAM 1 IP 86750 Solid Radioactive Waste Management And Transportation Of Radioactive Materials 07/03/2007 07/05/2007 Other Routine 83750 - OCCUPATIONAL RADIATION EXPOSURE 1 IP 83750 Occupational Radiation Exposure 07/03/2007 09/30/2007 Other Routine 1 7112203 - PUB RAD SAFETY - REMP 1 2,3 IP 7112203 Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P 07/30/2007 08/03/2007 Baseline Inspections 7111111B - LSRO REQUAL PROG. OPTEST @PB +PF REVIEW 2 IP 7111111B 2,3 Licensed Operator Regualification Program 11/01/2007 **Baseline Inspections** 11/01/2007 01/07EXM - INITIAL LSRO OPERATOR EXAM 3 2 U01631 PEACH BOTTOM LSRO EXAM (FY08) 11/19/2007 11/23/2007 Not Applicable 2 U01631 PEACH BOTTOM LSRO EXAM (FY08) 01/07/2008 01/08/2008 Not Applicable 71121 - OCC RAD SAFETY 1 2.3 IP 7112101 Access Control to Radiologically Significant Areas 09/10/2007 09/14/2007 **Baseline Inspections** 2.3 IP 7112102 **ALARA Planning and Controls** 09/10/2007 09/14/2007 **Baseline Inspections** 2.3 IP 7112103 Radiation Monitoring Instrumentation and Protective Equipment 09/10/2007 09/14/2007 **Baseline Inspections** 7111108G - U3 IN-SERVICE INSPECTION 1 3 IP 7111108G Inservice Inspection Activities - BWR 10/01/2007 10/05/2007 **Baseline Inspections** 71121 - OCC RAD SAFETY 1 IP 7112101 2.3 Access Control to Radiologically Significant Areas 10/08/2007 10/12/2007 **Baseline Inspections** 2.3 IP 7112102 **ALARA Planning and Controls** 10/08/2007 10/12/2007 **Baseline Inspections** 2.3 IP 7112103 Radiation Monitoring Instrumentation and Protective Equipment 10/08/2007 10/12/2007 **Baseline Inspections** 71121 - OCC RAD SAFETY 1 2.3 IP 7112101 Access Control to Radiologically Significant Areas 12/10/2007 12/14/2007 **Baseline Inspections** 2.3 IP 7112102 **ALARA Planning and Controls** 12/10/2007 12/14/2007 **Baseline Inspections** 2.3 IP 71151 Performance Indicator Verification 12/14/2007 **Baseline Inspections** 12/10/2007 DECOM - PEACH BOTTOM UNIT 1- JULY 2008 DECOM 1 IP 36801 Organization, Management, And Cost Controls At Permanently Shutdown Reactors 01/01/2008 01/05/2008 Other Routine Self-Assessment, Auditing, And Corrective Action At Permanently Shutdown Reactors IP 40801 01/01/2008 01/05/2008 Other Routine

01/01/2008

01/05/2008

Other Routine

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

Occupational Radiation Exposure

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Inspection / Activity Plan
07/01/2007 - 12/31/2008

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Unit Number	Inspection A	ctivity	Title	No. of Staff on Site	Planned Start	d Dates End	Inspection Type			
	DECOM - PEACH BOTTOM UNIT 1- JULY 2008 DECOM 1									
1	IP 84750		Radioactive Waste Treatment, And Effluent And Environmental Monitoring		01/01/2008	01/05/2008	Other Routine			
1	IP 86750		Solid Radioactive Waste Management And Transportation Of Radioactive Materials		01/01/2008	01/05/2008	Other Routine			
	71121	- OCC F	RAD SAFETY	1						
2, 3	IP 7112101		Access Control to Radiologically Significant Areas		02/25/2008	02/29/2008	Baseline Inspections			
2, 3	IP 7112102		ALARA Planning and Controls		02/25/2008	02/29/2008	Baseline Inspections			
2, 3	IP 7112103		Radiation Monitoring Instrumentation and Protective Equipment		02/25/2008	02/29/2008	Baseline Inspections			
	7111121	- CDBI		8						
2, 3	IP 7111121		Component Design Bases Inspection		03/10/2008	03/14/2008	Baseline Inspections			
2, 3	IP 7111121		Component Design Bases Inspection		03/24/2008	03/28/2008	Baseline Inspections			
2, 3	IP 7111121		Component Design Bases Inspection		03/31/2008	04/04/2008	Baseline Inspections			
	7111111B	- LSRO	REQUAL INSPECTION	4						
2, 3	IP 7111111B		Licensed Operator Requalification Program		06/02/2008	06/05/2008	Baseline Inspections			
	EP	- EP EX	ERCISE EVALUATION	4						
2, 3	IP 7111401		Exercise Evaluation		04/21/2008	04/25/2008	Baseline Inspections			
2, 3	IP 7111404		Emergency Action Level and Emergency Plan Changes		04/21/2008	04/25/2008	Baseline Inspections			
2, 3	IP 71151-EP	01	Drill/Exercise Performance		04/21/2008	04/25/2008	Baseline Inspections			
2, 3	IP 71151-EP	02	ERO Drill Participation		04/21/2008	04/25/2008	Baseline Inspections			
2, 3	IP 71151-EP	03	Alert & Notification System		04/21/2008	04/25/2008	Baseline Inspections			
	ISFSI	- MAY 2	2008 UNIT 2&3 ISFSI LOADING CAMPAIGN	1						
2, 3	IP 60855.1		Operation of an Independent Spent Fuel Storage Installation at Operating Plants		05/01/2008	05/31/2008	Other Routine			
	7112201	- PUB R	RAD SAFETY - RETS	1						
2, 3	IP 7112201		Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		05/12/2008	05/16/2008	Baseline Inspections			
		- U2&3	INITIAL OPERATOR LICENSING EXAM	4						
2	U01692		FY09 - PEACH BOTTOM UNIT 2 & 3 INITIAL OPERATOR EXAM		11/10/2008		Not Applicable			
2	U01692		FY09 - PEACH BOTTOM UNIT 2 & 3 INITIAL OPERATOR EXAM		12/08/2008	12/19/2008	Not Applicable			
		7111107B - HEAT SINK								
2, 3	IP 7111107B		Heat Sink Performance		08/11/2008	08/15/2008	Baseline Inspections			
	7111108G - U2 INSERVICE INSPECTION 1									
2	IP 7111108G	i	Inservice Inspection Activities - BWR		09/29/2008	10/03/2008	Baseline Inspections			