



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

August 31, 2006

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 7, 2006, the NRC staff completed its performance review of Peach Bottom Atomic Power Station for the first half of the calendar year 2006 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 physical protection information. A separate letter designated and marked "Exempt from Public Disclosure in accordance with 10 CFR 2.390" will include the physical protection review and resultant inspection plan.

Plant performance for the most recent quarter 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 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 enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 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).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 610-337-5186 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

James M. Trapp, 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:

Site Vice President, Peach Bottom Atomic Power Station  
Plant Manager, Peach Bottom Atomic Power Station  
Regulatory Assurance Manager - Peach Bottom  
Associate General Counsel, Exelon Generation Company  
Manager, Financial Control & Co-Owner Affairs  
Manager Licensing, PBAPS  
Director, Training  
Correspondence Control Desk  
Director, Bureau of Radiation Protection (PA)  
R. McLean, Power Plant and Environmental Review Division (MD)  
G. Aburn, Maryland Department of Environment  
T. Snyder, Director, Air and Radiation Management Administration,  
Maryland Department of the Environment (SLO, MD)  
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  
TMI - Alert (TMIA)  
J. Johnsrud, National Energy Committee, Sierra Club  
Mr. & Mrs. Kip Adams  
Vice President, Licensing and Regulatory Affairs  
Vice President, Operations Mid-Atlantic  
Senior Vice President, Nuclear Services  
Director, Licensing and Regulatory Affairs  
J. Fewell, Assistant General Counsel

C. Crane

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Sincerely,

/RA/

James M. Trapp, Chief  
Reactor Projects Branch 4  
Division of Reactor Projects

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License Nos. NPF-44, NPF-56

Enclosure: Peach Bottom Inspection/ Activity Plan

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**SUNSI Review Complete:**     JMT     (Reviewer's Initials)

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OFFICE	RI/DRP		RI/DRP		RI/DRP	E
NAME	FBower/CBK FOR	CKhan		JTrapp		
DATE	08/28/06	08/28/06		08/28/06		

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**Peach Bottom**  
**Inspection / Activity Plan**  
**07/01/2006 - 03/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>37801</b>	<b>- SAFETY REV, DES CHNGS, MODS</b>	<b>1</b>			
1	IP 37801	Safety Reviews, Design Changes, And Modifications At Permanently Shutdown Reactors		06/19/2006	07/31/2006	Other Routine
	<b>40801</b>	<b>- SELF-ASSMT, AUDITS, CORRECTIVE ACTIONS</b>	<b>1</b>			
1	IP 40801	Self-Assessment, Auditing, And Corrective Action At Permanently Shutdown Reactors		06/19/2006	07/31/2006	Other Routine
	<b>83750</b>	<b>- OCCUPATIONAL RADIATION EXPOSURE</b>	<b>1</b>			
1	IP 83750	Occupational Radiation Exposure		06/19/2006	07/31/2006	Other Routine
	<b>84750</b>	<b>- RAD WST TRTMT, EFF, AND ENV MONITORING</b>	<b>1</b>			
1	IP 84750	Radioactive Waste Treatment, And Effluent And Environmental Monitoring		06/19/2006	07/31/2006	Other Routine
	<b>86750</b>	<b>- SOLID RADWST MGMT AND TRANS OF RAD MAT</b>	<b>1</b>			
1	IP 86750	Solid Radioactive Waste Management And Transportation Of Radioactive Materials		06/19/2006	07/31/2006	Other Routine
	<b>36801</b>	<b>- ORG, MGMT, COST CONTROL</b>	<b>1</b>			
1	IP 36801	Organization, Management, And Cost Controls At Permanently Shutdown Reactors		06/30/2006	08/11/2006	Other Routine
	<b>711112B</b>	<b>- MAINTENANCE RULE</b>	<b>1</b>			
2,3	IP 711112B	Maintenance Effectiveness		07/17/2006	07/21/2006	Baseline Inspections
	<b>7111107B</b>	<b>- HEAT SINK</b>	<b>2</b>			
2,3	IP 7111107B	Heat Sink Performance		07/24/2006	07/28/2006	Baseline Inspections
	<b>71121</b>	<b>- OCC RAD SAF</b>	<b>1</b>			
2,3	IP 7112101	Access Control to Radiologically Significant Areas		07/31/2006	08/04/2006	Baseline Inspections
2,3	IP 7112102	ALARA Planning and Controls		07/31/2006	08/04/2006	Baseline Inspections
2,3	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		07/31/2006	08/04/2006	Baseline Inspections
	<b>7111108G</b>	<b>- INSERVICE INSPECTION - UNIT 2</b>	<b>1</b>			
2	IP 7111108G	Inservice Inspection Activities - BWR		09/18/2006	09/29/2006	Baseline Inspections
	<b>71121</b>	<b>- OCC RAD PROT</b>	<b>1</b>			
2,3	IP 7112101	Access Control to Radiologically Significant Areas		09/25/2006	09/29/2006	Baseline Inspections
2,3	IP 7112102	ALARA Planning and Controls		09/25/2006	09/29/2006	Baseline Inspections
2,3	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		09/25/2006	09/29/2006	Baseline Inspections
	<b>TI-169</b>	<b>- MSPI TI-169</b>	<b>1</b>			
2,3	IP 2515/169	Mitigating Systems Performance Index Verification		10/30/2006	11/10/2006	Safety Issues
	<b>71121</b>	<b>- OCC RAD PROT</b>	<b>1</b>			
2,3	IP 7112101	Access Control to Radiologically Significant Areas		11/13/2006	11/17/2006	Baseline Inspections
2,3	IP 7112102	ALARA Planning and Controls		11/13/2006	11/17/2006	Baseline Inspections
2,3	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		11/13/2006	11/17/2006	Baseline Inspections
2,3	IP 71151	Performance Indicator Verification		11/13/2006	11/17/2006	Baseline Inspections
	<b>TI-167</b>	<b>- TI: SHUTDOWN COOLING</b>	<b>3</b>			
2,3	IP 2515/167	Assurance of Industry Implementation of Key Shutdown Voluntary Initiatives		11/27/2006	12/01/2006	Safety Issues

This report does not include INPO and OUTAGE activities.

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

**Peach Bottom**  
**Inspection / Activity Plan**  
**07/01/2006 - 03/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>2/5EXAM - OPERATOR LICENSING INITIAL EXAMS</b>		<b>3</b>			
2	U01612	PEACH BOTTOM, UNIT 2&3 INITIAL EXAM (2/07)		01/08/2007	01/12/2007	Not Applicable
2	U01612	PEACH BOTTOM, UNIT 2&3 INITIAL EXAM (2/07)		02/05/2007	02/16/2007	Not Applicable
	<b>7111111B - L.O.(PWR.) REQUAL. PROG. + P/F REVIEW</b>		<b>3</b>			
2,3	IP 7111111B	Licensed Operator Requalification Program		02/26/2007	03/02/2007	Baseline Inspections
2,3	IP 7111111B	Licensed Operator Requalification Program		03/05/2007	03/09/2007	Baseline Inspections
	<b>71122 - PUBLIC RAD PROT - RETS</b>		<b>1</b>			
2,3	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		02/12/2007	02/16/2007	Baseline Inspections
	<b>71111117 - MODS AND 50.59</b>		<b>4</b>			
2,3	IP 7111102	Evaluation of Changes, Tests, or Experiments		03/05/2007	03/09/2007	Baseline Inspections
2,3	IP 7111117B	Permanent Plant Modifications		03/05/2007	03/09/2007	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
2,3	IP 7112101	Access Control to Radiologically Significant Areas		04/09/2007	04/13/2007	Baseline Inspections
2,3	IP 7112102	ALARA Planning and Controls		04/09/2007	04/13/2007	Baseline Inspections
2,3	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		04/09/2007	04/13/2007	Baseline Inspections
	<b>71152B - PI&amp;R</b>		<b>4</b>			
2,3	IP 71152B	Identification and Resolution of Problems		04/23/2007	04/27/2007	Baseline Inspections
2,3	IP 71152B	Identification and Resolution of Problems		05/14/2007	05/18/2007	Baseline Inspections
	<b>60855.1 - OPERATION OF AN ISFSI</b>		<b>3</b>			
2,3	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		05/01/2007	09/15/2007	Other Routine
	<b>6/2 EXAM - INITIAL LSRO OPERATOR EXAM</b>		<b>2</b>			
2	U01660	FY07 - PEACH BOTTOM (UNIT 2&3) INITIAL LSRO EXAM OPERATOR		05/05/2007	05/09/2007	Not Applicable
2	U01660	FY07 - PEACH BOTTOM (UNIT 2&3) INITIAL LSRO EXAM OPERATOR		06/02/2007	06/06/2007	Not Applicable
	<b>71114 - EP PRGM INSP</b>		<b>1</b>			
2,3	IP 7111402	Alert and Notification System Testing		06/18/2007	06/22/2007	Baseline Inspections
2,3	IP 7111403	Emergency Response Organization Augmentation Testing		06/18/2007	06/22/2007	Baseline Inspections
2,3	IP 7111404	Emergency Action Level and Emergency Plan Changes		06/18/2007	06/22/2007	Baseline Inspections
2,3	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		06/18/2007	06/22/2007	Baseline Inspections
2,3	IP 71151-EP01	Drill/Exercise Performance		06/18/2007	06/22/2007	Baseline Inspections
2,3	IP 71151-EP02	ERO Drill Participation		06/18/2007	06/22/2007	Baseline Inspections
2,3	IP 71151-EP03	Alert & Notification System		06/18/2007	06/22/2007	Baseline Inspections
	<b>7112202 - PUB RAD SAFETY - RADWASTE</b>		<b>1</b>			
2,3	IP 7112202	Radioactive Material Processing and Transportation		06/18/2007	06/22/2007	Baseline Inspections
	<b>7112203 - PUB RAD SAFETY - REMP</b>		<b>1</b>			
2,3	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Pr		07/30/2007	08/03/2007	Baseline Inspections

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	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
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
	<b>7111108G - U3 IN-SERVICE INSPECTION</b>		<b>1</b>			
3	IP 7111108G	Inservice Inspection Activities - BWR		10/01/2007	10/05/2007	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
2, 3	IP 7112101	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
	<b>7111111B - LSRO REQUAL PROG. OPTTEST @PB +PF REVIEW</b>		<b>2</b>			
2, 3	IP 7111111B	Licensed Operator Requalification Program		11/01/2007	11/01/2007	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
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		12/10/2007	12/14/2007	Baseline Inspections
	<b>7111121 - CDBI</b>		<b>8</b>			
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