



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION I
2100 RENAISSANCE BLVD.
KING OF PRUSSIA, PA 19406-2713

August 31, 2016

Mr. Bryan Hanson
Senior Vice President, Exelon Generation, LLC
President and Chief Nuclear Officer, Exelon Nuclear
4300 Winfield Rd.
Warrenville, IL 60555

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR PEACH BOTTOM ATOMIC
POWER STATION, UNITS 2 AND 3 (REPORT 05000277/2016005 AND
05000278/2016005)**

Dear Mr. Hanson:

On August 9, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of 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, 2015 through June 30, 2016. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, PBAPS Units 2 and 3 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at PBAPS 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 June 30, 2018. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to ROP baseline inspections, the NRC will perform Inspection Procedure (IP) 60855.1, "Operation of an ISFSI Independent Spent Fuel Storage Installation at Operating Plants." The inspections listed during the last half of the inspection period in 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. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," and Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." The NRC conducted audits of licensee efforts towards compliance with these Orders, and the information gathered will aid staff in development of the ultimate Final Safety Evaluation for the site.

After the NRC staff receives the Final Compliance letter for the site, the Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing Temporary Instruction 2515-191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

In Staff Requirements Memorandum – SECY 16-0009, "Recommendations Resulting from the Integrated Prioritization and Re-Baselining of Agency Activities," the Commission approved the NRC staff recommendation to discontinue the formal mid-cycle assessment process beginning in calendar year 2017. This will be the final mid-cycle assessment letter. The staff will continue to conduct assessment reviews and communicate changes in the assessment of licensee performance quarterly, and will also issue end-of-cycle assessment letters.

In accordance with Title 10 of the *Code of Federal Regulations* (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's Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC's Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 610-337-5262 with any questions you have regarding this letter.

Sincerely,

/RA/

Daniel L. Schroeder, Chief
Projects Branch 4
Division of Reactor Projects

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

Enclosure:
Inspection Plan

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Enclosure:
 Inspection Plan

Distribution: (See next page)

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 ADAMS ACCESSION NUMBER: ML16237A008

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Letter sent to Mr. Bryan Hanson from Daniel L. Schroeder dated August 31, 2016

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Peach Bottom
Inspection / Activity Plan
07/01/2016 - 06/30/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			3/20EXAM - PEACH BOTTOM INITIAL OL EXAM		4
2	02/20/2017	02/24/2017	U01942	FY-17-PB INITIAL OPERATOR LICENSING EXAM	
2	03/20/2017	03/31/2017	U01942	FY-17-PB INITIAL OPERATOR LICENSING EXAM	
			SAMPLE - PI&R SAMPLE		1
2	10/11/2016	10/13/2016	IP 71152	Problem Identification and Resolution	
			7111108G - PB U2 INSERVICE INSPECTION		1
2	10/31/2016	11/04/2016	IP 7111108G	Inservice Inspection Activities - BWR	
			RS1234PI - HP INSPECTION		1
2, 3	10/31/2016	11/04/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	10/31/2016	11/04/2016	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	10/31/2016	11/04/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	10/31/2016	11/04/2016	IP 71124.04	Occupational Dose Assessment	
2, 3	10/31/2016	11/04/2016	IP 71151-OR01	Occupational Exposure Control Effectiveness	
			7111111B - PB REQUAL INSP WITH P/F RESULTS		2
2, 3	03/06/2017	03/10/2017	IP 7111111B	Licensed Operator Requalification Program	
			CBDI - CDBI		6
2, 3	01/30/2017	02/03/2017	IP 7111121	Component Design Bases Inspection	
2, 3	02/13/2017	02/17/2017	IP 7111121	Component Design Bases Inspection	
2, 3	02/27/2017	03/03/2017	IP 7111121	Component Design Bases Inspection	
			EP - EP PROGRAM INSPECTION		1
2, 3	03/27/2017	03/31/2017	IP 7111402	Alert and Notification System Testing	
2, 3	03/27/2017	03/31/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
2, 3	03/27/2017	03/31/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
2, 3	03/27/2017	03/31/2017	IP 71151	Performance Indicator Verification	
			71152B - PI&R BIENNIAL		2
2, 3	03/13/2017	03/17/2017	IP 71152B	Problem Identification and Resolution	
2, 3	03/27/2017	03/31/2017	IP 71152B	Problem Identification and Resolution	
			71124 - HP INSPECTION 01 02 03 04		1
2, 3	05/08/2017	05/12/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	05/08/2017	05/12/2017	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	05/08/2017	05/12/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	05/08/2017	05/12/2017	IP 71124.04	Occupational Dose Assessment	

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

Peach Bottom
Inspection / Activity Plan
07/01/2016 - 06/30/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			71124.08 - RADWASTE		1
2, 3	07/17/2017	07/21/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			71124 - HP INSPECTION 01 02 03 04		1
2, 3	10/23/2017	10/27/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	10/23/2017	10/27/2017	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	10/23/2017	10/27/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	10/23/2017	10/27/2017	IP 71124.04	Occupational Dose Assessment	
2, 3	10/23/2017	10/27/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
			7111108G - U3 INSERVICE INSPECTION		1
3	10/30/2017	11/03/2017	IP 7111108G	Inservice Inspection Activities - BWR	
			7111105T - TRIENNIAL FIRE PROTECTION		4
2, 3	04/02/2018	04/06/2018	IP 7111105T	Fire Protection [Triennial]	
2, 3	04/16/2018	04/20/2018	IP 7111105T	Fire Protection [Triennial]	
			71124 - RAD MONITORING INSTRU		1
2, 3	03/26/2018	03/29/2018	IP 71124.05	Radiation Monitoring Instrumentation	
			EP - EP EXERCISE INSPECTION		4
2, 3	04/23/2018	04/26/2018	IP 7111401	Exercise Evaluation	
			ISFSI - ISFSI LOADING CAMPAIGN INSPECTION		3
2, 3	05/14/2018	05/18/2018	IP 60855	Operation Of An ISFSI	
2, 3	05/14/2018	05/18/2018	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			71124 - RAD HAZARD & ALARA 01 02		1
2, 3	05/07/2018	05/11/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	05/07/2018	05/11/2018	IP 71124.02	Occupational ALARA Planning and Controls	
			71124 - RAD EFFLUENTS		1
2, 3	06/11/2018	06/15/2018	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	

This report does not include INPO and OUTAGE activities.
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