



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I**  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

September 4, 2012

Mr. Paul A. Harden  
Site Vice President  
FirstEnergy Nuclear Operating Company  
Beaver Valley Power Station  
P. O. Box 4, Route 168  
Shippingport, PA 15077-0004

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
BEAVER VALLEY POWER STATION, UNITS 1 AND 2  
(REPORT 05000334/2012006 AND 05000412/2012006)

Dear Mr. Harden:

On August 16, 2012, the U. S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of Beaver Valley Power Station, Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2011 through June 30, 2012. 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 assessment reflects the integration of the Security Cornerstone into the IMC 0305, "Reactor Oversight Process."

The NRC determined the performance at Beaver Valley Units 1 and 2 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, 2013. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to the baseline inspections, consistent with the Agency's actions related to Fukushima, the NRC will perform TI-187, "Inspection of Near Term Task Force Recommendation 2.3 Flooding Walkdowns" and TI-188, "Inspection of Near Term Task Force Recommendation 2.3 Seismic Walkdowns." 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. 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 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 Agencywide Document Access and Management 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 610-337-5046 with any questions you have regarding this letter.

Sincerely,

**/RA/**

Gordon K. Hunegs, Chief  
Projects Branch 6  
Division of Reactor Projects

Docket Nos.: 50-334, 50-412  
License Nos.: DPR-66, NPF-73

Enclosure: Beaver Valley Units 1 and 2 Inspection/Activity Plan

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Management 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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**Beaver Valley**  
**Inspection / Activity Plan**  
**07/01/2012 - 12/31/2013**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>9/24EXM - BEAVER VALLEY U2 INITIAL OL EXAM</b>		<b>4</b>
2	08/27/2012	08/31/2012	U01850	FY12-BV2 INITIAL OPERATOR LICENSING EXAM	
2	09/24/2012	10/05/2012	U01850	FY12-BV2 INITIAL OPERATOR LICENSING EXAM	
			<b>7111111B - BV1 ON-SITE REQUAL INSP W/ P/F RESULTS</b>		<b>2</b>
1,2	07/29/2012	08/02/2012	IP 7111111B	Licensed Operator Requalification Program	
			<b>TRI FI - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>6</b>
1,2	07/23/2012	07/27/2012	IP 7111105T	Fire Protection [Triennial]	
1,2	07/23/2012	07/27/2012	IP 7111105T-B.5.b	B.5.b Mitigating Strategies	
1,2	08/06/2012	08/10/2012	IP 7111105T	Fire Protection [Triennial]	
			<b>71124.08 - RADWASTE</b>		<b>1</b>
1,2	08/13/2012	08/17/2012	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>TI-177 - MANAGING GAS ACCUMULATION IN ECCS</b>		<b>3</b>
1,2	09/10/2012	09/14/2012	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
			<b>71124 - OCC RADIATION SAFETY</b>		<b>1</b>
1,2	09/24/2012	09/28/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	09/24/2012	09/28/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	09/24/2012	09/28/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	09/24/2012	09/28/2012	IP 71124.04	Occupational Dose Assessment	
			<b>7111108P - U2 INSERVICE INSPECTION</b>		<b>1</b>
2	10/01/2012	10/05/2012	IP 7111108P	Inservice Inspection Activities - PWR	
2	10/15/2012	10/19/2012	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>71124 - HP INSTRUMENTATION</b>		<b>1</b>
1,2	12/03/2012	12/07/2012	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>MODS - PERMANENT PLANT MODIFICATIONS</b>		<b>6</b>
1,2	01/28/2013	02/01/2013	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1,2	02/11/2013	02/15/2013	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			<b>EP PROGR - EP PROGRAM INSPECTION</b>		<b>1</b>
1,2	03/25/2013	03/29/2013	IP 7111402	Alert and Notification System Testing	
1,2	03/25/2013	03/29/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1,2	03/25/2013	03/29/2013	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1,2	03/25/2013	03/29/2013	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			<b>71124 - OCC RADIATION SAFETY</b>		<b>1</b>
1,2	04/01/2013	04/05/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	04/01/2013	04/05/2013	IP 71124.02	Occupational ALARA Planning and Controls	

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

**Beaver Valley**  
**Inspection / Activity Plan**  
**07/01/2012 - 12/31/2013**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
			<b>71124 - OCC RADIATION SAFETY</b>		<b>1</b>
1, 2	04/01/2013	04/05/2013	IP 71124.04	Occupational Dose Assessment	
			<b>7111107T - TRIENNIAL HEAT SINK</b>		<b>1</b>
1, 2	05/13/2013	05/17/2013	IP 7111107T	Heat Sink Performance	
			<b>71124 - RADIO EFFLUENTS</b>		<b>1</b>
1, 2	06/10/2013	06/14/2013	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			<b>71124 - REMP</b>		<b>1</b>
1, 2	06/24/2013	06/28/2013	IP 71124.07	Radiological Environmental Monitoring Program	
			<b>7111111B - BV2 REQUAL INSPECTION WITH P/F RESULTS</b>		<b>2</b>
2	10/14/2013	10/18/2013	IP 7111111B	Licensed Operator Requalification Program	
			<b>7111108P - U1 INSERVICE INSPECTION</b>		<b>1</b>
1	10/07/2013	10/18/2013	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>PI&amp;R - PI&amp;R</b>		<b>4</b>
1, 2	11/18/2013	11/22/2013	IP 71152B	Problem Identification and Resolution	
1, 2	12/02/2013	12/06/2013	IP 71152B	Problem Identification and Resolution	