UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
2100 RENAISSANCE BLVD., SUITE 100
KING OF PRUSSIA, PA 19406-2713

September 2, 2014

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

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR BEAVER VALLEY POWER STATION, UNIT NOS. 1 AND 2 (REPORT 05000334/2014006 AND 05000412/2014006)

Dear Mr. Larson:

On August 13, 2014, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of Beaver Valley Power Station, Unit Nos. 1 and 2. The NRC reviewed the most recent quarterly performance indicators in addition to inspection results and enforcement actions from July 1, 2013 through June 30, 2014. 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, Beaver Valley Power Station, Unit Nos. 1 and 2 were operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Beaver Valley Power Station Unit Nos. 1 and 2 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all performance indicators demonstrated that your performance was within the nominal, expected range (i.e, green). Therefore, the NRC plans to conduct Reactor Oversight Process baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2015. Routine inspections performed by resident inspectors are not included in the inspection plan. 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 addition to baseline inspections, the NRC will perform Inspection Procedure (IP) 60854.1, "Preoperational Testing of ISFSI at Operating Plants," IP 60856.1, "Review of 10CFR72.212(b) Evaluation at Operating Plants," IP 60855.1, "Operation of an ISFSI at Operating Plants," and IP 71003, "Post Approval Site Inspection For License Renewal."

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," which requires licensees to develop, implement, and maintain guidance

and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation," which requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. This audit includes an onsite component in order for the NRC to evaluate licensee plans for complying with the Orders, as described in site-specific submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised. All cross-cutting aspects identified during inspections conducted in calendar year 2014 will reflect this revision to Inspection Manual Chapter (IMC) 0310. During the 2014 mid-cycle assessment review, cross-cutting aspects identified in 2013 using the 2013 terminology were converted to the latest revision in accordance with the cross-reference in IMC 0310, and were evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR), Part 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 component of the 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/

Silas R. Kennedy, Chief
Projects Branch 6
Division of Reactor Projects

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

Enclosure: Inspection Plan

cc w/encl: Distribution via ListServ

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DATE	08/26/14	08/26/14	08/27/14		

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Beaver Valley
Inspection / Activity Plan
07/01/2014 - 12/31/2015

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			7/7EXAM	**- U1 INITIAL OL EXAM**	**4**
1	07/07/2014	07/16/2014	U01884	FY14 -BEAVER VALLEY 1 INITIAL OPERATOR LICENSING EXAM	
			7111111B	**- U1 REQUAL INSPECTION WITH P/F RESULTS**	**2**
1	09/01/2014	09/05/2014	IP 7111111B	Licensed Operator Requalification Program	
			ISFSI	**- DRY RUN & INITIAL ISFSI INSPECTION**	**3**
1, 2	09/01/2014	09/19/2014	IP 60854	Preoperational Testing Of An ISFSI	
1	09/01/2014	09/19/2014	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
1, 2	09/01/2014	09/19/2014	IP 60855	Operation Of An ISFSI	
1, 2	09/01/2014	09/19/2014	IP 60856	Review of 10 CFR 72.212(b) Evaluations	
2	09/01/2014	09/19/2014	IP 60856.1	Review of 10 CFR 72.212(b) Evaluations at Operating Plants	
1	09/22/2014	09/26/2014	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			CDBI	**- CDBI**	**6**
1, 2	11/03/2014	11/07/2014	IP 7111121	Component Design Bases Inspection	
1, 2	11/17/2014	11/21/2014	IP 7111121	Component Design Bases Inspection	
1, 2	12/01/2014	12/05/2014	IP 7111121	Component Design Bases Inspection	
			71124.08	**- RADWASTE**	**1**
1, 2	11/17/2014	11/21/2014	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			71124	**- OCC RADIATION SAFETY**	**1**
1, 2	12/15/2014	12/19/2014	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	12/15/2014	12/19/2014	IP 71151	Performance Indicator Verification	
			EP	**- EP PROGRAM INSPECTION**	**1**
1, 2	01/01/2015	07/02/2015	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	06/29/2015	07/02/2015	IP 7111402	Alert and Notification System Testing	
1, 2	06/29/2015	07/02/2015	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	06/29/2015	07/02/2015	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			71124	**- RAD SAFETY INSPECTION**	**1**
1, 2	04/20/2015	04/24/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/20/2015	04/24/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/20/2015	04/24/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/20/2015	04/24/2015	IP 71124.04	Occupational Dose Assessment	
			7111108P	**- U1 INSERVICE INSPECTION**	**1**
1	05/04/2015	05/15/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			71003	**- LR COMMITMENTS PHASE I OUTAGE INSP**	**2**
1	05/11/2015	05/15/2015	IP 71003	Post-Approval Site Inspection for License Renewal	

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

Beaver Valley
Inspection / Activity Plan
07/01/2014 - 12/31/2015

Unit Number	Planned Dates Start	End	Inspection Activity	Title	No. of Staff on Site
			7111111B	**- U2 REQUAL INSP W/ P/F RESULTS**	**2**
2	08/24/2015	08/28/2015	IP 7111111B	Licensed Operator Requalification Program	
			71124.07	**- RAD SAFETY INSPECTION**	**1**
1, 2	07/06/2015	07/10/2015	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	07/06/2015	07/10/2015	IP 71151	Performance Indicator Verification	
			TRI FI	**- TRIENNIAL FIRE PROTECTION INSPECTION**	**4**
1, 2	08/03/2015	08/07/2015	IP 7111105T	Fire Protection [Triennial]	
1, 2	08/17/2015	08/21/2015	IP 7111105T	Fire Protection [Triennial]	
			12/7EXAM	**- U2 INITIAL OL EXAM**	**4**
2	11/09/2015	11/13/2015	U01906	FY16-BV2 INITIAL OPERATOR LICENSING EXAM	
2	12/07/2015	12/18/2015	U01906	FY16-BV2 INITIAL OPERATOR LICENSING EXAM	
			71003	**- LR COMMITMENTS PHASE II TEAM INSP**	**4**
1	08/31/2015	09/04/2015	IP 71003	Post-Approval Site Inspection for License Renewal	
1	09/14/2015	09/18/2015	IP 71003	Post-Approval Site Inspection for License Renewal	
			PI&R	**- PI&R BIENNIAL**	**4**
1, 2	10/05/2015	10/09/2015	IP 71152B	Problem Identification and Resolution	
1, 2	10/19/2015	10/23/2015	IP 71152B	Problem Identification and Resolution	
			7111108P	**- U2 INSERVICE INSPECTION**	**1**
2	10/05/2015	10/16/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			71124	**- RAD SAFETY INSP**	**1**
1, 2	10/19/2015	10/23/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/19/2015	10/23/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	10/19/2015	10/23/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	10/19/2015	10/23/2015	IP 71124.04	Occupational Dose Assessment	
1, 2	10/19/2015	10/23/2015	IP 71124.05	Radiation Monitoring Instrumentation	
			71124	**- RAD SAFETY INSP**	**1**
1, 2	12/14/2015	12/18/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	12/14/2015	12/18/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	12/14/2015	12/18/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	12/14/2015	12/18/2015	IP 71124.04	Occupational Dose Assessment	
1, 2	12/14/2015	12/18/2015	IP 71151	Performance Indicator Verification	

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