



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

March 4, 2014

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR BEAVER VALLEY POWER STATION,
UNIT NOS. 1 AND 2 (REPORT 05000334/2013001 AND 05000412/2013001)

Dear Mr. Larson:

On February 12, 2014, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-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 January 1, 2013 through December 31, 2013. 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 operated in a manner that preserved public health and safety and met all cornerstone objectives. Beaver Valley Power Station, Unit Nos. 1 and 2 were in the Regulatory Response Column of the NRC's Reactor Oversight Process Action Matrix until the third quarter of 2013, due to one or more greater-than-green security cornerstone inputs as described in inspection report 05000334/2012404 and 05000412/2012404 dated August 16, 2012 (ML12229A425)¹. The NRC determined that Beaver Valley Power Station, Unit Nos. 1 and 2 returned to the Licensee Response Column in the third quarter of 2013 because a supplemental inspection was successfully completed for the greater-than-green security inputs on May 31, 2013, as documented in supplemental inspection report 05000334/2013406 and 05000412/2013406, dated July 8, 2013 (ML13190A417). Subsequently, Beaver Valley Power Station, Unit Nos. 1 and 2 remained in the Licensee Response Column 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.

¹ The NRC's Agencywide Document Access and Management System (ADAMS) accession number for the referenced document. The report cover letter summarizing the inspection results is publicly available and retrievable through the ADAMS hyperlink provided at the end of this letter using this number. The referenced inspection report contains Security-Related information in accordance with 10 CFR 2.390(d)(1) and is not publicly available.

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 (CY) 2014 will reflect this revision to Inspection Manual Chapter (IMC) 0310. The CY 2013 end-of-cycle assessments were conducted using the IMC 0310 guidance in effect in CY 2013 (dated October 28, 2011). Cross-cutting aspects identified in 2013 using the 2013 terminology will be converted to the latest revision in accordance with the cross-reference in IMC 0310 during the mid-cycle assessment review and evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305.

The enclosed inspection plan lists the inspections scheduled through June 30, 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 mid-cycle performance review. In addition to baseline inspections, the NRC will perform Inspection Procedure (IP) 60854.1, "Preoperational Testing of ISFSI at Operating Plants," IP 60855.1, "Operation of an ISFSI at Operating Plant," IP 60856.1, "Review of 10 CFR 72.212 Evaluation at Operating Plants," and IP 71003, "Post-Approval Site Inspection for License Renewal." 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.

Additionally, an NRC audit of licensee efforts towards compliance with Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events" is ongoing. This audit includes an onsite component in order for the NRC to evaluate mitigating strategies as described in licensee 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.

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 Kevin Mangan at (610)337-5234 with any questions you have regarding this letter.

Sincerely,

/RA/

Michael L. Scott, Acting Director
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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OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME <i>mmt</i>	LCline/ AD for	KMangan/ AD for	MScott/ MLS		
DATE	02/26 /14	02/26/14	03/03//14		

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Beaver Valley
Inspection / Activity Plan
01/01/2014 - 06/30/2015

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
			71152 - PIR SAMPLE: PART 21 AND VENDOR BULLETIN		1
1, 2	01/21/2014	01/24/2014	IP 71152	Problem Identification and Resolution	
			7/7EXAM - BV1 INITIAL OL EXAM		4
1	06/09/2014	06/13/2014	U01884	FY14 -BEAVER VALLEY 1 INITIAL OPERATOR LICENSING EXAM	
1	07/07/2014	07/16/2014	U01884	FY14 -BEAVER VALLEY 1 INITIAL OPERATOR LICENSING EXAM	
			71124 - OCC RADIATION SAFETY		1
1, 2	03/03/2014	03/07/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/03/2014	03/07/2014	IP 71124.02	Occupational ALARA Planning and Controls	
			71124 - OCC RADIATION SAFETY		1
1, 2	04/21/2014	04/25/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/21/2014	04/25/2014	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/21/2014	04/25/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/21/2014	04/25/2014	IP 71124.04	Occupational Dose Assessment	
1, 2	04/21/2014	04/25/2014	IP 71151	Performance Indicator Verification	
			EP EXER - EP EXERCISE INSPECTION		6
1, 2	06/16/2014	06/20/2014	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
			7111108P - U2 INSERVICE INSPECTION		1
2	04/28/2014	05/09/2014	IP 7111108P	Inservice Inspection Activities - PWR	
			ISFSI - ISFSI CRANE AND HSM INSPECTION		4
1	05/12/2014	05/15/2014	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
			71124 - OCC RADIATION SAFETY		1
1, 2	06/09/2014	06/13/2014	IP 71124.05	Radiation Monitoring Instrumentation	
			7111111B - BV1 REQUAL INSPECTION WITH P/F RESULTS		2
1	08/04/2014	08/08/2014	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	

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

Beaver Valley
Inspection / Activity Plan
01/01/2014 - 06/30/2015

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		CDBI - CDBI		6
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	
		71003 - LR COMMITMENTS PHASE I OUTAGE INSP		2
1	04/13/2015 04/17/2015	IP 71003	Post-Approval Site Inspection for License Renewal	
		7111108P - U1 INSERVICE INSPECTION		1
1	04/13/2015 04/24/2015	IP 7111108P	Inservice Inspection Activities - PWR	
		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	