



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
2100 RENAISSANCE BLVD., SUITE 100
KING OF PRUSSIA, PA 19406-2713

March 2, 2016

Mr. Marty Richey
Site Vice President
FirstEnergy Nuclear Operating Company
Beaver Valley Power Station
P.O. Box 4
Shippingport, PA 15077

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR BEAVER VALLEY POWER STATION,
UNIT NOS. 1 AND 2 (REPORT 05000334/2015006 AND 05000412/2015006)**

Dear Mr. Richey:

On February 9, 2016, 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 (PIs) in addition to inspection results and enforcement actions from January 1, 2015, through December 31, 2015. 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. 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 (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, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to baseline inspections, the NRC will perform Inspection Procedure (IP) 60855.1, "Operation of an ISFSI Independent Spent Fuel Storage Installation at Operating Plants." 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." This Order 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.” This Order 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. The audit was completed for Beaver Valley Power Station Unit Nos. 1 and 2, and the information gathered will aid staff in development of the Final Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing TI 2515-191, “Inspection of the Implementation of Mitigating Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communications/Staffing/Multi-Unit Dose Assessment Plans.”

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 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).

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 and 50-412
License Nos. DPR-66 and NPF-73

Enclosure: Beaver Valley Power Station
Inspection/Activity Plan

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OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME	JKrafty/ JK via email	SShaffer/ SWS	SKennedy/ SRK		
DATE	02/ 23 /16	02 / 23 /16	02/ 23 /16		

Beaver Valley
Inspection / Activity Plan
01/01/2016 - 12/31/2017

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			711111B - BV1 REQUAL INSP W/ P/F RESULTS		2
1	04/11/2016	04/15/2016	IP 711111B	Licensed Operator Requalification Program	
			71124 - RAD SAFETY INSPECTION		1
1, 2	03/07/2016	03/11/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/07/2016	03/11/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	03/07/2016	03/11/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/07/2016	03/11/2016	IP 71124.04	Occupational Dose Assessment	
			EP - EP EXERCISE EVALUATION		4
1, 2	06/13/2016	06/17/2016	IP 7111401	Exercise Evaluation	
			7111107T - TRIENNIAL HEAT SINK		1
1, 2	05/16/2016	05/20/2016	IP 7111107T	Heat Sink Performance	
			EXM10/3 - BEAVER VALLEY 1 INITIAL EXAM		6
1	09/12/2016	09/16/2016	U01922	FY17-BV1 INITIAL OPERATOR LICENSING EXAM	
1	10/31/2016	11/11/2016	U01922	FY17-BV1 INITIAL OPERATOR LICENSING EXAM	
			7111117T - PERMANENT PLANT MODIFICATIONS		3
1, 2	06/06/2016	06/10/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1, 2	06/20/2016	06/24/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			71124 - RAD SAFETY INSPECTION		3
1, 2	07/11/2016	07/15/2016	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	07/11/2016	07/15/2016	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	07/11/2016	07/15/2016	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	07/11/2016	07/15/2016	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			71124 - RAD SAFETY INSPECTION		1
1, 2	10/03/2016	10/07/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/03/2016	10/07/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	10/03/2016	10/07/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	10/03/2016	10/07/2016	IP 71124.04	Occupational Dose Assessment	
			7111108P - BV U1 INSERVICE INSPECTION		2
1	10/03/2016	10/14/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			71124 - RAD SAFETY INSPECTION		1
1, 2	12/12/2016	12/16/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	12/12/2016	12/16/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	12/12/2016	12/16/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	

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

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			71124 - RAD SAFETY INSPECTION		1
1, 2	12/12/2016	12/16/2016	IP 71124.04	Occupational Dose Assessment	
1, 2	12/12/2016	12/16/2016	IP 71151-OR01	Occupational Exposure Control Effectiveness	
			71124.08 - RADWASTE		1
1, 2	12/05/2016	12/09/2016	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			71124 - HP INSPECTION		1
1, 2	04/10/2017	04/14/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/10/2017	04/14/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/10/2017	04/14/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			7111108P - U2 INSERVICE INSPECTION		2
2	04/10/2017	04/21/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			7111111B - BV2 REQUAL INSP WITH P/F RESULTS		2
2	06/19/2017	06/23/2017	IP 7111111B	Licensed Operator Requalification Program	
			10/8EXAM - BEAVER VALLEY 2 INITIAL EXAM		6
2	09/11/2017	09/15/2017	U01938	FY18-BV2 INITIAL OPERATOR LICENSING EXAM	
2	10/09/2017	10/20/2017	U01938	FY18-BV2 INITIAL OPERATOR LICENSING EXAM	
			EP - EP PROGRAM INSPECTION		2
1, 2	06/19/2017	06/23/2017	IP 7111402	Alert and Notification System Testing	
1, 2	06/19/2017	06/23/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	06/19/2017	06/23/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	06/19/2017	06/23/2017	IP 71151	Performance Indicator Verification	
			71124 - HP INSPECTION		1
1, 2	06/05/2017	06/09/2017	IP 71124.04	Occupational Dose Assessment	
1, 2	06/05/2017	06/09/2017	IP 71124.05	Radiation Monitoring Instrumentation	
			71152B - PI&R BIENNIAL		2
1, 2	06/01/2017	06/05/2017	IP 71152B	Problem Identification and Resolution	
1, 2	06/15/2017	06/19/2017	IP 71152B	Problem Identification and Resolution	
			TI-191 - FUKUSHIMA LESSON LEARNED		1
1, 2	07/10/2017	07/15/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			ISFSI - ISFSI LOADING CAMPAIGN INSPECTION		1
1, 2	07/24/2017	07/28/2017	IP 60855	Operation Of An ISFSI	
1, 2	07/24/2017	07/28/2017	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	

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1	10/16/2017	10/20/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	10/16/2017	10/20/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
711121 - CDBI					9
1, 2	10/16/2017	10/20/2017	IP 7111121	Component Design Bases Inspection	
1, 2	10/30/2017	11/03/2017	IP 7111121	Component Design Bases Inspection	
1, 2	11/13/2017	11/17/2017	IP 7111121	Component Design Bases Inspection	

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