



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

March 2, 2018

Mr. Richard Bologna
Site Vice President
First Energy Nuclear Operating Company
Beaver Valley Power Station
P. O. Box 4
Shippingport, PA 15077-0004

SUBJECT: ANNUAL ASSESSMENT LETTER FOR BEAVER VALLEY POWER STATION
UNITS 1 AND 2 (REPORTS 05000334/2017006 AND 0500412/2017006
05000334/2017402 AND 05000412/2017402 AND 05000334/2017501 AND
05000412/2017501)

Dear Mr. Bologna:

The NRC has completed its end-of-cycle performance assessment of Beaver Valley Power Station, Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2017, through December 31, 2017. 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 concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Beaver Valley Power Station, Units 1 and 2, during the most recent quarter was within the Licensee Response Column (Column 1) of the NRC's Reactor Oversight Process (ROP) Action Matrix in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program," because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the 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, 2019. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

The NRC will also be performing TI-191, "Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 and EP Info Request March 12, 2012" in the first quarter of 2018.

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 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).

R. Bologna

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Please contact me at 610-337-5205 with any questions you may have regarding this letter.

Sincerely,

/RA/

Matthew R. Young, Chief
Reactor Projects Branch 6
Division of Reactor Projects

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

Enclosure:
Inspection Plan

SUBJECT: ANNUAL ASSESSMENT LETTER FOR BEAVER VALLEY POWER STATION
 UNITS 1 AND 2 (REPORTS 05000334/2017006 AND 0500412/2017006
 05000334/2017402 AND 05000412/2017402 AND 05000334/2017501 AND
 05000412/2017501) DATED MARCH 2, 2018

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NAME	SHaney	SShaffer	MYoung		
DATE	2/28/18	2/28/18	3/02/18		

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IP 22 Inspection Activity Plan Report

Beaver Valley

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
BV1 REQUAL INSP W/ P/F RESULTS						2
1	01/22/2018	01/26/2018	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance - Annual	
1	01/22/2018	01/26/2018	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	
RAD SAFETY INSP						1
1, 2	01/22/2018	01/26/2018	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	01/22/2018	01/26/2018	IP 71151	000746	Performance Indicator Verification	
CYBER FULL IMP						4
1, 2	01/29/2018	02/02/2018	IP 71130.10P	000741	Cyber Security	
1, 2	02/12/2018	02/16/2018	IP 71130.10P	000741	Cyber Security	
FUKUSHIMA LESSONS LEARNED TI-191						1
1, 2	02/19/2018	02/23/2018	TI 2515/191	000509	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
UNIT 1 INSERVICE INSPECTION						1
1	04/23/2018	05/04/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
RAD SAFETY INSP						1
1, 2	04/23/2018	04/27/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/23/2018	04/27/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	04/23/2018	04/27/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/23/2018	04/27/2018	IP 71124.04	000729	Occupational Dose Assessment	
ACCESS CONTROL, PROTECTIVE STRATEGY, TSR						4
1, 2	06/04/2018	06/08/2018	IP 71130.02	000734	Access Control	
1, 2	06/04/2018	06/08/2018	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	06/04/2018	06/08/2018	IP 71130.14	000743	Review of Power Reactor Target Sets	
1, 2	06/04/2018	06/08/2018	IP 71151	001338	Performance Indicator Verification	
EP EXERCISE INSPECTION						5
1, 2	06/11/2018	06/15/2018	IP 71114.01	000716	Exercise Evaluation	
1, 2	06/11/2018	06/15/2018	IP 71151	001397	Performance Indicator Verification	

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

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Beaver Valley

01/01/2018 - 12/31/2019

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MC&A						1
1, 2	06/11/2018	06/15/2018	IP 71130.11	000742	Material Control and Accounting (MC&A)	
TRIENNIAL FIRE PROTECTION						4
1, 2	07/23/2018	07/27/2018	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
1, 2	08/06/2018	08/10/2018	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
BEAVER VALLEY 1 INITIAL OL EXAM						4
1	08/20/2018	08/24/2018	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	09/17/2018	09/28/2018	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
RAD INSTRUMENTATION						1
1, 2	09/10/2018	09/14/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
Unit 2 Inservice Inspection						1
2	10/29/2018	11/09/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
Rad Safety Inspection						1
1, 2	10/29/2018	11/02/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/29/2018	11/02/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	10/29/2018	11/02/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	10/29/2018	11/02/2018	IP 71124.04	000729	Occupational Dose Assessment	
RADWASTE						1
1, 2	11/05/2018	11/09/2018	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
RAD SAFETY INSPECTION						1
1, 2	12/10/2018	12/14/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	12/10/2018	12/14/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	12/10/2018	12/14/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	12/10/2018	12/14/2018	IP 71124.04	000729	Occupational Dose Assessment	
1, 2	12/10/2018	12/14/2018	IP 71151	000746	Performance Indicator Verification	
PI&R BIENNIAL						1
1, 2	03/04/2019	03/08/2019	IP 71152B	000747	Problem Identification and Resolution	
1, 2	03/18/2019	03/22/2019	IP 71152B	000747	Problem Identification and Resolution	

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Beaver Valley

01/01/2018 - 12/31/2019

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RAD SAFETY 01,02,03,04						1
1, 2	03/18/2019	03/22/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/18/2019	03/22/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/18/2019	03/22/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/18/2019	03/22/2019	IP 71124.04	000729	Occupational Dose Assessment	
FORCE-ON-FORCE PLANNING AND EXERCISES						8
1, 2	03/25/2019	03/29/2019	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	04/15/2019	04/19/2019	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
EQ PROGRAM						3
1, 2	06/10/2019	06/14/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1, 2	06/24/2019	06/28/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
EP PROGRAM INSPECTION						2
1, 2	06/10/2019	06/14/2019	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	06/10/2019	06/14/2019	IP 71114.03	000718	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	06/10/2019	06/14/2019	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	06/10/2019	06/14/2019	IP 71151	001397	Performance Indicator Verification	
RAD SAFETY REMP						1
1, 2	07/08/2019	07/12/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	07/08/2019	07/12/2019	IP 71151	000746	Performance Indicator Verification	
Triennial Heat Sink						1
1, 2	07/15/2019	07/19/2019	IP 71111.07T	000700	Heat Sink Performance -Triennial	
ACCESS CONTROL, EQUIP PERF, TRAINING						3
1, 2	07/22/2019	07/26/2019	IP 71130.02	000734	Access Control	
1, 2	07/22/2019	07/26/2019	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	07/22/2019	07/26/2019	IP 71130.07	000739	Security Training	
1, 2	07/22/2019	07/26/2019	IP 71151	001338	Performance Indicator Verification	
50.59 Process						3
1, 2	08/12/2019	08/16/2019	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	

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Beaver Valley

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
RAD SAFETY 01,02,03,04						1
1, 2	08/12/2019	08/16/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	08/12/2019	08/16/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	08/12/2019	08/16/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	08/12/2019	08/16/2019	IP 71124.04	000729	Occupational Dose Assessment	
BV2 REQUAL INSP WITH P/F RESULTS						2
2	08/26/2019	08/30/2019	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance - Annual	
2	08/26/2019	08/30/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	
BEAVER VALLEY 2 INITIAL OL EXAM						4
2	08/26/2019	08/30/2019	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
2	09/23/2019	10/04/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
RAD SAFETY OUT						1
1, 2	09/23/2019	09/27/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/23/2019	09/27/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	09/23/2019	09/27/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	09/23/2019	09/27/2019	IP 71124.04	000729	Occupational Dose Assessment	
1, 2	09/23/2019	09/27/2019	IP 71151	000746	Performance Indicator Verification	
INSERVICE INSPECTION - UNIT 1						1
1	10/07/2019	10/18/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	