



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

March 4, 2019

Mr. Rich Bologna
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 (REPORTS 05000334/2018006 AND 05000412/2018006)

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, 2018, through December 31, 2018. 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 Beaver Valley Power Station, Units 1 and 2.

The enclosed inspection plan lists the inspections scheduled through December 31, 2020. 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. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections"). Should these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020. In a letter (ML18115A007) dated April 25, 2018, pursuant to 10 CFR 50.82(a)(1)(i), you notified the NRC of your intent to permanently cease power operations at Beaver Valley Unit 1 by May 31, 2021 and Beaver Valley Unit 2 by October 31, 2021. Therefore, the inspection schedule is 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.

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's 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).

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

Sincerely,

/RA/

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

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

Enclosure:
Beaver Valley Inspection Plan

SUBJECT: ANNUAL ASSESSMENT LETTER FOR BEAVER VALLEY POWER STATION,
UNIT NOS. 1 AND 2 (REPORTS 05000334/2018006 AND 05000412/2018006)
DATED MARCH 4, 2019

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ADAMS ACCESSION NUMBER: ML19064B365

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive Sensitive		<input checked="" type="checkbox"/> Publicly Available Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP			
NAME	SShaffer/DRP	MYoung/DRP			
DATE	2/26/19	2/27/19			

OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

Beaver Valley

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
RAD SAFETY 01,02,03,04						1
1, 2	02/25/2019	03/01/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	02/25/2019	03/01/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	02/25/2019	03/01/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	02/25/2019	03/01/2019	IP 71124.04	000728	Occupational Dose Assessment	
PI&R BIENNIAL						4
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	
FORCE-ON-FORCE PLANNING AND EXERCISES						6
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	04/29/2019	05/03/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1, 2	05/20/2019	05/24/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
BV2 REQUAL INSP WITH P/F RESULTS						2
2	05/05/2019	05/10/2019	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance (Annual)	
2	05/05/2019	05/10/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance (Biennial)	
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 Response Organization Staffing and Augmentation System	
1, 2	06/10/2019	06/14/2019	IP 71114.05	000720	Maintenance of Emergency Preparedness	
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	07/14/2019	07/20/2019	IP 71111.07T	000700	Heat Sink Performance -Triennial	

This report does not include INPO and OUTAGE activities.

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

IP 22 Inspection Activity Plan Report

Beaver Valley

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
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	
RAD SAFETY 01,02,03,04						1
1, 2	08/05/2019	08/09/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	08/05/2019	08/09/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	08/05/2019	08/09/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	08/05/2019	08/09/2019	IP 71124.04	000728	Occupational Dose Assessment	
50.59 Process						3
1, 2	08/11/2019	08/17/2019	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
BEAVER VALLEY 2 INITIAL OL EXAM						4
2	09/01/2019	09/06/2019	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
2	10/06/2019	10/18/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
INSERVICE INSPECTION - UNIT 1						1
1	10/20/2019	11/02/2019	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RAD SAFETY OUT						1
1, 2	10/28/2019	11/01/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/28/2019	11/01/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	10/28/2019	11/01/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	10/28/2019	11/01/2019	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	10/28/2019	11/01/2019	IP 71151	000746	Performance Indicator Verification	
Rad Safety Inspection						1
1, 2	01/27/2020	01/31/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	01/27/2020	01/31/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	01/27/2020	01/31/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	01/27/2020	01/31/2020	IP 71124.04	000728	Occupational Dose Assessment	

IP 22 Inspection Activity Plan Report

Beaver Valley

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
BV1 Requal Inspection with P/F Results						2
1	04/12/2020	04/18/2020	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance (Annual)	
1	04/12/2020	04/18/2020	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance (Biennial)	
Rad Safety Refuel						1
1, 2	04/13/2020	04/17/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/13/2020	04/17/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	04/13/2020	04/17/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/13/2020	04/17/2020	IP 71124.04	000728	Occupational Dose Assessment	
ISI - UNIT 2						1
2	04/20/2020	05/01/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
BEAVER VALLEY EP EXERCISE INSPECTION						5
1, 2	06/08/2020	06/12/2020	IP 71114.01	000716	Exercise Evaluation	
1, 2	06/08/2020	06/12/2020	IP 71151	001397	Performance Indicator Verification	
Rad Safety RETS						1
1, 2	06/22/2020	06/26/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	06/22/2020	06/26/2020	IP 71151	000746	Performance Indicator Verification	
Rad Safety Instruments						1
1, 2	08/17/2020	08/21/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
Access Control, Equip Perf, Training						3
1, 2	09/07/2020	09/11/2020	IP 71130.02	000734	Access Control	
1, 2	09/07/2020	09/11/2020	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	09/07/2020	09/11/2020	IP 71130.07	000739	Security Training	
1, 2	09/07/2020	09/11/2020	IP 71151	001338	Performance Indicator Verification	
DESIGN BASIS ASSURANCE INSPECTION						6
1, 2	09/14/2020	09/18/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1, 2	09/28/2020	10/02/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	

IP 22 Inspection Activity Plan Report

Beaver Valley

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
Rad safety Inspection						1
1, 2	11/16/2020	11/20/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	11/16/2020	11/20/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	11/16/2020	11/20/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	11/16/2020	11/20/2020	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	11/16/2020	11/20/2020	IP 71151	000746	Performance Indicator Verification	
Radwaste						1
1, 2	11/16/2020	11/20/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	