



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE RD, STE 102
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

June 29, 2022

Mr. John J. Grabnar
Site Vice President
Beaver Valley Power Station
Energy Harbor Nuclear Corp.
P.O. Box 4 - Route 168
Shippingport, PA 15077-0004

SUBJECT: BEAVER VALLEY POWER STATION, UNITS 1 AND 2 – EMERGENCY
PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT
05000334/2022501 AND 05000412/2022501

Dear Mr. Grabnar:

On June 10, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Beaver Valley Power Station, Units 1 and 2 and discussed the results of this inspection with Mr. Will Cothen, Director, Performance Improvement and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

Daniel L. Schroeder, Chief
Security, Emergency Preparedness, and Incident
Response Branch
Division of Radiological Safety and Security

Docket Nos. 05000334 and 05000412
License Nos. DPR-66 and NPF-73

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV

SUBJECT: BEAVER VALLEY POWER STATION, UNITS 1 AND 2 – EMERGENCY
 PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT
 05000334/2022501 AND 05000412/2022501 DATED JUNE 29, 2022

DISTRIBUTION:

MYoung, DORS
 LCline, DORS
 JBresson, DORS
 EEve, DORS, SRI
 RRolph, DORS, RI
 CFragman, DORS, AA
 ROrlikowski, RI OEDO
 MMcCoppin, NSIR/EPD
 ESchrader, NSIR/EPD
 RidsNrrPMBeverValley Resource
 RidsNrrDorlLp1 Resource

DOCUMENT NAME: <https://usnrc.sharepoint.com/teams/RI.DRS.PSB.EP/Shared Documents/EP Inspections/EP Inspection Reports/BVPS/Beaver Valley EP EX IR 2022-501.docx>

ADAMS ACCESSION NUMBER: ML22180A244

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRSS	RI/DORS	RI/DRSS		
NAME	JAmbrosini	MYoung/JFuller for	DSchroeder		
DATE	6/29/22	6/29/22	6/29/22		

OFFICIAL RECORD COPY

**U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report**

Docket Numbers: 05000334 and 05000412

License Numbers: DPR-66 and NPF-73

Report Numbers: 05000334/2022501 and 05000412/2022501

Enterprise Identifier: I-2022-501-0005

Licensee: Energy Harbor Nuclear Corp.

Facility: Beaver Valley Power Station, Units 1 and 2

Location: Shippingport, PA

Inspection Dates: June 6, 2022 to June 10, 2022

Inspectors: J. Ambrosini, Senior Emergency Preparedness Inspector
E. Brady, Project Engineer
K. Hussar, Senior Physical Security Inspector
S. Seeley, Health Physicist

Approved By: Daniel L. Schroeder, Chief
Security, Emergency Preparedness, and Incident Response Branch
Division of Radiological Safety and Security

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an emergency preparedness biennial exercise inspection at Beaver Valley Power Station, Units 1 and 2, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

List of Findings and Violations

No findings or violations of more than minor significance were identified.

Additional Tracking Items

None.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

REACTOR SAFETY

71114.01 - Exercise Evaluation

Inspection Review (IP Section 02.01-02.11) (1 Sample)

- (1) The inspectors evaluated the biennial emergency plan exercise. The exercise scenario simulated a loss of coolant accident, a loss of all auxiliary feedwater which challenged the fuel cladding barrier, and a failure of containment on June 7, 2022.

71114.04 - Emergency Action Level and Emergency Plan Changes

Inspection Review (IP Section 02.01-02.03) (1 Sample)

- (1) The inspectors evaluated the following submitted Emergency Action Level and Emergency Plan changes.
 - BV-2021-006-00, 1/2 ADM-1103, Offsite Training and Exercise Preparation, Revision 5
 - BV-2021-009-00, 1/2 EPP-IP-1.1, Notifications, Revision 59
 - BV-2021-010-00, NOP-LP-5015, Field Monitoring Teams Radiation Monitoring Teams Field Surveys, Revision 6
 - BV-2021-011-00, U1/U2 GAI-Tronics EOF Multiplexer Updates
 - BV-2022-001-00, EP Review of STRIDE 2021-0001, U1/U2 Control Room Monitoring Testing Frequency Adjustment
 - BV-2022-002-00, NOP-LP-5011, Emergency Response Drill and Exercise Program, Revision 15

This evaluation does not constitute NRC approval.

71114.08 - Exercise Evaluation - Scenario Review

Inspection Review (IP Section 02.01 - 02.04) (1 Sample)

- (1) The inspectors reviewed and evaluated the proposed scenario for biennial emergency plan exercise on May 3, 2022.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

EP01: Drill/Exercise Performance (DEP) Sample (IP Section 02.12) (1 Sample)

(1) June 1, 2021 through March 31, 2022

EP02: Emergency Response Organization (ERO) Drill Participation (IP Section 02.13) (1 Sample)

(1) June 1, 2021 through March 31, 2022

EP03: Alert And Notification System (ANS) Reliability Sample (IP Section 02.14) (1 Sample)

(1) June 1, 2021 through March 31, 2022

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On June 10, 2022, the inspectors presented the emergency preparedness biennial exercise inspection results to Mr. Will Cothen, Director, Performance Improvement and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71114.01	Corrective Action Documents	CR-2022-04729 CR-2022-04741 CR-2022-04742		
	Miscellaneous		BVPS Emergency Preparedness Plan	Revision 11
		L-22-097	Beaver Valley 2022 Evaluated Exercise Scenario	