



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION I  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

August 18, 2021

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

SUBJECT: BEAVER VALLEY POWER STATION, UNITS 1 AND 2 – SECURITY BASELINE  
INSPECTION REPORT 05000334/2021402 AND 05000412/2021402

Dear Mr. Grabnar:

On August 5, 2021, 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 you 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,

Fred L. Bower, III, 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

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SUBJECT: BEAVER VALLEY POWER STATION, UNITS 1 AND 2 – SECURITY BASELINE  
INSPECTION REPORT 05000334/2021402 AND 05000412/2021402 DATED  
AUGUST 18, 2021

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

Docket Numbers: 05000334 and 05000412

License Numbers: DPR-66 and NPF-73

Report Numbers: 05000334/2021402 and 05000412/2021402

Enterprise Identifier: I-2021-402-0044

Licensee: Energy Harbor Nuclear Corporation

Facility: Beaver Valley Power Station, Units 1 and 2

Location: Shippingport, PA

Inspection Dates: August 2, 2021 to August 5, 2021

Inspectors: K. Hussar, Senior Physical Security Inspector  
D. Caron, Senior Physical Security Inspector  
S. McCarver, Physical Security Inspector  
J. Rey, Physical Security Inspector  
M. Ordoyne, Physical Security Inspector (Training)  
T. Eck, Physical Security Inspector (Training)

Approved By: Fred L. Bower, III, 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 a security baseline 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

Unless otherwise noted, baseline security inspections were conducted in accordance with the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter 2201, "Security Inspection Program for Commercial Nuclear Power Reactors." 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. Publicly available IPs are located at: <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Starting on March 20, 2020, in response to the National Emergency declared by the President of the United States on the public health risks of the coronavirus (COVID-19), inspectors were directed to begin telework. In addition, regional baseline inspections were evaluated to determine if all or a portion of the objectives and requirements stated in the IP could be performed remotely. If the inspections could be performed remotely, they were conducted per the applicable IP. In some cases, portions of an IP were completed remotely and on site. The inspections documented below met the objectives and requirements for completion of the IP.

In response to the COVID-19 Public Health Emergency declared on January 31, 2020, by the Secretary of the United States Department of Health and Human Services on the public health risks of the coronavirus, Beaver Valley Power Station pursued an exemption to security officer training and requalification requirements (ML20303A213). In addition to these exemptions, licensees implemented additional actions or alternatives allowed in response to health concerns within existing regulatory guidance available in Regulatory Guide 5.75 to ensure annual Force on Force exercises were conducted as safely as possible while maintaining the requirements to simulate as closely as practicable site specific conditions and minimizing the number and effects of artificialities associated with these exercises (Part 73, Appendix B, VI.C.3)

## SAFEGUARDS

### 71130.02 - Access Control

The inspectors evaluated the access control program through completion of the following inspection elements:

#### Access Control (1 Sample)

- (1)
  - Tier I: All Requirements
  - Tier II: 12 Requirements (02.06 a - d, 02.07 a, 02.08 a - e, g, i)
  - Tier III: All Requirements

### 71130.05 - Protective Strategy Evaluation

The inspectors evaluated the licensee's protective strategy through completion of the following inspection elements:

#### Protective Strategy Evaluation (2 Samples)

- (1)
  - Tier I: All Requirements

- Tier II: 19 Requirements (02.05 a, 02.06 a, c, d - n, 02.07 a - d and e)
- Tier III: 5 Requirements (02.08, 02.09 a, b, 02.10 a, and 02.11 a)

(2) The inspectors evaluated the Security Performance Evaluation Program.

#### 71130.09 - Security Plan Changes

The inspectors evaluated the security plan changes through completion of the following inspection elements:

##### Review Security Plan Changes (IP Section 02.01) (1 Sample)

- (1) Since the last NRC inspection of this program area, Security Plan Revision 27 was implemented based on your determination, in accordance with 10 CFR 50.54(p)(2), that the changes resulted in no decrease in safeguards effectiveness of the security plan, and that the revised security plan changed continues to meet the requirements of 10 CFR 73.55(b). The inspectors conducted a review of the security plan changes to evaluate for potential decrease in safeguards effectiveness of the security plan. However, this review does not constitute formal NRC approval of the changes. Therefore, these changes remain subject to future NRC inspection in their entirety.

#### 71130.14 - Review of Power Reactor Target Sets

The inspectors evaluated the security target set program through completion of the following inspection elements:

##### Review of Power Reactor Target Sets (1 Sample)

- (1) 02.01, 02.02 (a-e), 02.03, 02.04 (a), 02.05.

### **OTHER ACTIVITIES – BASELINE**

#### 71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

##### PP01: Protected Area Security Equipment Performance Index Sample (IP Section 02.17) (1 Sample)

- (1) January 1, 2020 through December 31, 2020

### **INSPECTION RESULTS**

No findings were identified.

### **EXIT MEETINGS AND DEBRIEFS**

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

- On August 5, 2021, the inspectors presented the security baseline inspection results to Mr. John Grabnar, Site Vice President and other members of the licensee staff.

**DOCUMENTS REVIEWED**

| Inspection Procedure | Type  | Designation   | Description or Title                                      | Revision or Date          |  |
|----------------------|---|---|---|---------------------------|--|
| 71130.02             | Corrective Action Documents                           | CR-2019-06200<br>CR-2020-06889  |   |                           |  |
|                      | Corrective Action Documents Resulting from Inspection | CR-2021-05849<br>CR-2021-05878<br>CR-2021-05897<br>CR-2021-05923  |   |                           |  |
|                      | Procedures  | SP-11.0   | Protected Area Barriers                                   | Revision 17               |  |
|                      |   | SP-15.2   | Personnel Access to the Protected Area During CPU Outages | Revision 18               |  |
|                      |   | SP-16.1   | Access Facility, Access Control Duties                    | Revision 14               |  |
|                      |   | SP-16.1   | Access Facility, Access Control Duties                    | Revision 14               |  |
|                      |   | SP-5.1  | Test, Explosive Detectors                                 | Revision 37               |  |
| SP-5.3               | Test, X-Ray Package Search Equipment                  | Revision 28   |   |                           |  |
| 71130.05             | Calculations  | 2201.540-000-003  |   | Rev B                     |  |
|                      |   | 3249774-C-001   |   |                           |  |
|                      |   | 3249774-C-002   |   |                           |  |
|                      |   | 3249774-C-003   |   |                           |  |
|                      |   | 3249774-L-001   |   |                           |  |
|                      |   | 3249774-R-001   |   |                           |  |
|                      |   | Hinman Blast Calculation  |   | 8/30/2021                 |  |
|                      | Corrective Action Documents                           | CR-2021-04182<br>CR-2021-11237<br>CR-2021-11238<br>CR-2021-11239<br>CR-2021-11241<br>CR-2021-11242<br>CR-2021-11245<br>CR-2021-11247<br>CR-2021-11248 |   |                           |  |
|                      |   | Engineering   | ECP No. 09-   | Engineering Change Screen |  |

| Inspection Procedure | Type  | Designation  | Description or Title   | Revision or Date |
|----------------------|---|--|--|------------------|
|                      | Changes   | 0774-000   |  |                  |
|                      | Miscellaneous   | LLEA MOU   |  | 9/11/2015        |
|                      | Procedures  | NOP-LP-1107  | Safety and Security Interface  | Rev 5            |
| 71130.09             | Miscellaneous   |  | Beaver Valley Power Station Physical Security Plan   | Revision 27      |
|                      |   |  | Beaver Valley Power Station 50.54(p) Screening for Revision 27 of the Physical Security Plan | 11/02/2020       |
| 71130.14             | Corrective Action Documents                           | CR-2018-05338<br>ATA-2018-13578<br>ATA-2018-13453<br>ATA-2018-13457<br>ATA-2018-13454<br>ATA-2018-13456<br>ATA-2018-13579<br>ATA-2021-3781 |  |                  |
|                      | Corrective Action Documents Resulting from Inspection | CR-2021-05920  |  |                  |
|                      | Procedures  | NOP-LP-1106  | Target Set Program   | Revision 3       |
| 71151                | Corrective Action Documents Resulting from Inspection | 2021-05877   |  |                  |
|                      | Miscellaneous   |  | 1st through 4th Quarter 2020 submitted PI data   |                  |