



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

June 14, 2022

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

SUBJECT: BEAVER VALLEY POWER STATION, UNIT 2 – INITIAL OPERATOR  
LICENSING EXAMINATION REPORT 05000412/2022301

Dear Mr. Grabnar:

On April 26, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an examination at the Unit 2 facility. The enclosed examination report documents the examination results, which were discussed on May 19, 2022, with Mr. M. Brasile, Manager, Site Training, and other members of your staff.

The examination included the evaluation of three applicants for reactor operator licenses, five applicants for instant senior reactor operator licenses, and four applicants for upgrade senior reactor operator licenses. The written and operating examinations were developed using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 12. The license examiners determined all applicants satisfied the requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 55, and the appropriate licenses were issued on May 19, 2022.

No findings were identified during this examination.

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 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

Donald E. Jackson, Chief  
Operations Branch  
Division of Operating Reactor Safety

Docket No. 50-412  
License No. NPF-73

Enclosure:  
Examination Report 05000412/2022301  
w/Attachment: Supplementary Information

cc: Distribution via ListServ

SUBJECT: BEAVER VALLEY POWER STATION, UNIT 2 – INITIAL OPERATOR  
 LICENSING EXAMINATION REPORT 05000412/2022301 DATED JUNE 14,  
 2022

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**EXAMINATION REPORT****U.S. NUCLEAR REGULATORY COMMISSION  
REGION I**

Docket No. 50-412

License No. NPF-73

Enterprise Identifier: L-2022-OLL-0003

Report No. 05000412/2022301

Licensee: Energy Harbor Nuclear Corp.

Facility: Beaver Valley Power Station, Unit 2

Location: Shippingport, PA

Dates: April 18–21, 2022 (Operating Test Administration)  
April 26, 2022 (Written Examination Administration)  
May 3, 2022 (Facility Submitted Post Exam Package)  
April 19 – May 4, 2022 (NRC Examination Grading)  
May 19, 2022 (Licenses Issued)

Examiners: T. Fish, Chief Examiner  
J. Demarshall, Senior Operations Engineer  
M. Patel, Senior Reactor Engineer  
P. Ott, Operations Engineer

Approved By: Donald E. Jackson, Chief  
Operations Branch  
Division of Operating Reactor Safety

## SUMMARY

ER 05000412/2022301; April 18–26, 2022; Beaver Valley Power Station, Unit 2; Initial Operator Licensing Examination Report.

Four NRC examiners evaluated the competency of three applicants for reactor operator licenses, five applicants for instant senior reactor operator licenses, and four applicants for upgrade senior reactor operator licenses. The facility licensee developed the examinations using NUREG-1021, “Operator Licensing Examination Standards for Power Reactors,” Revision 12. The written examination was administered by the facility on April 26, 2022. NRC examiners administered the operating tests April 18–21, 2022. The NRC examiners determined that all applicants satisfied the requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 55, and the appropriate licenses have been issued.

A. NRC-Identified and Self-Revealing Findings

No findings were identified.

B. Licensee-Identified Violations

None.

## REPORT DETAILS

### 4. OTHER ACTIVITIES (OA)

#### 4OA5 Other Activities (Initial Operator License Examination)

##### .1 License Applications

###### a. Scope

The examiners reviewed all license applications submitted by the licensee to ensure the applications reflected that each applicant satisfied relevant license eligibility requirements. The applications were submitted on NRC Form 398, "Personal Qualification Statement," and NRC Form 396, "Certification of Medical Examination by Facility Licensee." The examiners also audited the license applications to confirm that they accurately reflected the subject applicant's qualifications. This audit focused on the applicant's experience and on-the-job training, including control manipulations that provided significant reactivity changes.

###### b. Findings

No findings were identified.

##### .2 Operator Knowledge and Performance

###### a. Examination Scope

On April 26, 2022, the licensee proctored the administration of the written examinations to all applicants. The licensee staff graded the written examinations, analyzed the results, and presented their analysis to the NRC on May 3, 2022.

The NRC examination team administered various portions of the operating examination April 18–21, 2022. The applicants for reactor operator licenses participated in at least two dynamic simulator scenarios, in a control room and facilities walkthrough test consisting of eleven system tasks, and an administrative test consisting of four administrative tasks. The applicants for instant senior reactor operator licenses participated in at least two dynamic simulator scenarios, a control room and facilities walkthrough test consisting of ten system tasks, and an administrative test consisting of five administrative tasks. The applicants for upgrade senior reactor operator licenses participated in at least one dynamic simulator scenario, a control room and facilities walkthrough test consisting of five system tasks, and an administrative test consisting of five administrative tasks.

###### b. Findings

No findings were identified.

All applicants passed the operating test and the written examination. For the written examinations, the reactor operator applicants' average score was 89.7 percent and ranged from 82.6 to 97.3 percent. The senior operator applicants' average score

was 90.9 percent and ranged from 83.0 to 96.0 percent. The text of the examination questions may be accessed in the ADAMS system under the accession numbers noted in the Attachment. In accordance with current NRC policy, the release of the written examination in ADAMS to the public will be delayed for two years.

Chapter ES-4.4 of NUREG-1021 requires the licensee to review and resolve any questions and comments that arose during or after the examination. The licensee conducted this review and submitted it to the chief examiner.

### .3 Initial Licensing Examination Development

#### a. Examination Scope

The facility licensee developed the examinations in accordance with NUREG-1021, Revision 12. All licensee facility training and operations staff involved in examination preparation and validation were listed on a security agreement. The facility licensee submitted the operating examination outline on November 17, 2021. The chief examiner reviewed the outlines against the requirements of NUREG-1021, and provided comments to the licensee. The facility licensee submitted the draft examination package on January 21, 2022. The chief examiner reviewed the draft examination package against the requirements of NUREG-1021, and provided comments to the licensee on the examination. The NRC conducted an onsite validation of the operating examinations and provided further comments during the week of March 21, 2022. The licensee satisfactorily completed comment resolution on March 30, 2022.

#### b. Findings

No findings were identified.

The examiners determined that the written and operating examinations initially submitted by the licensee were within the range of acceptability expected for a proposed examination.

### .4 Simulation Facility Performance

#### a. Examination Scope

The examiners observed simulator performance with regard to plant fidelity during the examination validation and administration.

#### b. Findings

No findings were identified.

.5 Examination Security

a. Examination Scope

The examiners reviewed examination security for examination development and during both the onsite preparation week and examination administration week for compliance with NUREG-1021, Revision 12 requirements. Plans for simulator security and applicant control were reviewed and discussed with licensee personnel.

b. Findings

No findings were identified.

4OA6 Meetings, Including Exit

The chief examiner presented the examination results to Mr. M. Brasile, Manager, Site Training, and other members of the licensee's staff on May 19, 2022.

The licensee did not identify any information or materials used during the examination as proprietary.

**ATTACHMENT: SUPPLEMENTARY INFORMATION**



**SUPPLEMENTARY INFORMATION**

**KEY POINTS OF CONTACT**

Licensee Personnel

P. Eisenman, Exam Author  
M. Klingensmith, Exam Author  
A. Jacques, Exam Author

**ITEMS OPENED, CLOSED, AND DISCUSSED**

NONE

**ADAMS DOCUMENTS REFERENCED**

Accession No. ML22164A955 – FINAL-Written Exam (Note: In accordance with current NRC policy, the release of this examination in ADAMS to the public will be delayed for two years.)

Accession No. ML22164A949 – FINAL-Operating Exam (Note: In accordance with current NRC policy, the release of this examination in ADAMS to the public will be delayed for two years.)