



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

January 24, 2023

Rod Penfield
Site Vice President
Energy Harbor Nuclear Corp.
Perry Nuclear Power Plant
10 Center Road, P.O. Box 97
Perry, OH 44081

SUBJECT: PERRY NUCLEAR POWER PLANT - NRC INITIAL LICENSE EXAMINATION
REPORT 05000440/2022301

Dear Rod Penfield:

On January 5, 2023, the U.S. Nuclear Regulatory Commission (NRC) completed the initial operator licensing examination process for license applicants employed at your Perry Nuclear Power Plant. The enclosed report documents the results of those examinations. Preliminary observations noted during the examination process were discussed on December 19, 2022, with you and other members of your staff. An exit meeting was conducted by telephone on January 12, 2023, between you and Greg Roach, Chief Operator Licensing Examiner, to review the proposed final grading of the written examination for the license applicants.

The NRC examiners administered an initial license examination operating test during the week of December 12, 2022. The written examination was administered by Perry Nuclear Power Plant training department personnel on December 20, 2022. Seven Senior Reactor Operator and five Reactor Operator applicants were administered license examinations. The results of the examinations were finalized on January 12, 2023. Twelve applicants passed all sections of their respective examinations. Seven were issued senior operator licenses and five were issued operator licenses.

The administered written examination and operating test, as well as documents related to the development and review (outlines, review comments and resolution, etc.) of the examination will be withheld from public disclosure until January 5, 2025.

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*, Part 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,



Signed by Nguyen, April
on 01/24/23

April M. Nguyen, Chief
Operations Branch
Division of Operating Reactor Safety

Docket No. 50-440
License No. NPF-58

Enclosure:

1. Examination Report 05000440/2022301
2. Simulator Fidelity Report

cc: Distribution via LISTSERV®
Scott Plymale, Training Manager,
Perry Nuclear Power Plant

Letter to Rod Penfield from April M. Nguyen dated January 24, 2023.

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U.S. NUCLEAR REGULATORY COMMISSION
REGION III

Docket No: 50-440

License No: NPF-58

Report No: 05000440/2022301

Enterprise Identifier L-2022-OLL-0035

Licensee: Energy Harbor Nuclear Corp.

Facility: Perry Nuclear Power Plant

Location: Perry, OH

Dates: December 12, 2022 to January 5, 2023

Examiners: G. Roach, Senior Operations Engineer, Chief Examiner
T. Wingfield, Operations Engineer, Examiner
J. Nance, Operations Engineer, Examiner
R. Ng, Senior Project Engineer, Examiner Under Instruction

Approved by: A. Nguyen, Chief
Operations Branch
Division of Operating Reactor Safety

SUMMARY OF FINDINGS

ER 05000440/2022301(DORS); 12/12/2022-01/05/2023; Energy Harbor Nuclear Corp, Perry Nuclear Power Plant. Initial License Examination Report.

The announced initial operator licensing examination was conducted by regional U.S. Nuclear Regulatory Commission (NRC) examiners in accordance with the guidance of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 12.

Examination Summary:

Twelve of twelve applicants passed all sections of their respective examinations. Seven applicants were issued senior operator licenses and five applicants were issued operator licenses. (Section 4OA5.1).

REPORT DETAILS

4OA5 Other Activities

.1 Initial Licensing Examinations

a. Examination Scope

The NRC examiners and members of the facility licensee's staff used the guidance prescribed in NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 12, to develop, validate, administer, and grade the written examination and operating test. The written examination outlines were prepared by the NRC staff and were transmitted to the facility licensee's staff. Members of the facility licensee's staff developed the operating test outlines and developed the written examination and operating test. The NRC examiners validated the proposed examination during the week of November 14, 2022, with the assistance of members of the facility licensee's staff. During the on-site validation week, the examiners audited two reactor operator and two senior reactor operator license applications for accuracy. The NRC examiners, with the assistance of members of the facility licensee's staff, administered the operating test, consisting of job performance measures and dynamic simulator scenarios, during the period of December 12, 2022, through December 16, 2022. The facility licensee administered the written examination on December 20, 2022.

b. Findings

(1) Written Examination

The NRC examiners determined that the written examination, as proposed by the licensee, was within the range of acceptability expected for a proposed examination. Less than 20 percent of the proposed examination questions were determined to be unsatisfactory and required modification or replacement.

All changes made to the proposed written examination, were made in accordance with NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," and documented on Form 2.3-5, "Written Examination Review Worksheet." The Form 2.3-5, the written examination outlines (Form 4.1-PWR Pressurized-Water Reactor Examination Outline and Form 4.1-COMMON Common Examination Outline), and both the proposed and final written examinations, will be available electronically in the NRC Public Document Room or from the Publicly Available Records component of NRC's Agencywide Documents Access and Management System (ADAMS) on January 5, 2025, (ADAMS Accession Numbers ML21188A236, ML21188A232, ML21188A233, and ML21188A238 respectively).

The NRC examiners graded the written examination on January 6, 2023, and conducted a review of each missed question to determine the accuracy and validity of the examination questions.

(2) Operating Test

The NRC examiners determined that the operating test, as originally proposed by the licensee, was within the range of acceptability expected for a proposed examination. Less than 20 percent of the proposed operating test portion of the examination was determined to be unsatisfactory and required modification or replacement.

Changes made to the operating test portion of the examination, were made in accordance with NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," and documented on Form 2.3-3, "Operating Test Review Worksheet". The Form 2.3-3, the operating test outlines (Form 3.2-1 Administrative Topics Outline, Form 3.2-2 Control Room and In-Plant Systems Outline, and Form 3.3-1 Scenario Outlines), and both the proposed and final as administered dynamic simulator scenarios and JPMs, will be available electronically in the NRC Public Document Room or from the Publicly Available Records component of NRC's ADAMS on January 5, 2025, (ADAMS Accession Numbers ML21188A236, ML21188A232, ML21188A233, and ML21188A238 respectively).

The NRC examiners completed operating test grading on January 6, 2023.

(3) Examination Results

Seven applicants at the Senior Reactor Operator (SRO) level and five applicants at the Reactor Operator (RO) level were administered written examinations and operating tests. Twelve applicants passed all portions of their examinations and were issued their respective operating licenses on January 12, 2023.

.2 Examination Security

a. Scope

The NRC examiners reviewed and observed the licensee's implementation of examination security requirements during the examination validation and administration to assure compliance with Title 10 of the Code of Federal Regulations, Section 55.49, "Integrity of Examinations and Tests." The examiners used the guidelines provided in NUREG 1021, "Operator Licensing Examination Standards for Power Reactors," to determine acceptability of the licensee's examination security activities.

b. Findings

None.

4OA6 Meetings

.1 Debrief

The chief examiner presented the examination team's preliminary observations and findings on December 19, 2022, to Rod Penfield, Site Vice President and other members of the Perry Nuclear Power Plant Operations and Training Department staff.

.2 Exit Meeting

The chief examiner conducted an exit meeting on January 12, 2023, with Rod Penfield, Site Vice President by telephone. The NRC's final disposition of the station's grading of the written examination and post-examination comments were disclosed and discussed during the telephone discussion. The chief examiner asked the licensee whether any of the retained submitted material used to develop or administer the examination should be considered proprietary. Proprietary or sensitive information identified during the examination or debrief/exit meetings will be handled in accordance with the applicable requirements.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee

R. Penfield, Site Vice President
C. Elliott, Plant General Manager
S. Fahnestock, Regulatory Compliance Acting Supervisor
S. Plymale, Manager - Site Training
K. Clark, Manager - Operations
R. Torres, Lead Exam Author
B. Udell, Exam Author
S. Kapostatsy, Operations Facility Representative

U.S. Nuclear Regulatory Commission

T. Ospino, Resident Inspector
G. Roach, Chief Examiner
T. Wingfield, Examiner
J. Nance, Examiner
R. Ng, Examiner Under Instruction

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened, Closed, and Discussed

None

LIST OF ACRONYMS USED

ADAMS	Agency-Wide Document Access and Management System
JPM	Job Performance Measure
NRC	U.S. Nuclear Regulatory Commission
SPDS	Safety Parameter Display System
SWR	Simulator Work Request

SIMULATOR FIDELITY REPORT

Facility Licensee: Perry Nuclear Power Plant

Facility Docket No: 50-440

Operating Tests Administered: December 12, 2022 through December 16, 2022

The following documents observations made by the U.S. Nuclear Regulatory Commission examination team during the initial operator license examination. These observations do not constitute audit or inspection findings and are not, without further verification and review, indicative of non-compliance with Title 10 of the *Code of Federal Regulations*, Part 55.45(b). These observations do not affect U.S. Nuclear Regulatory Commission certification or approval of the simulation facility other than to provide information which may be used in future evaluations. No licensee action is required in response to these observations.

During the conduct of the simulator portion of the operating tests, the following items were observed:

ITEM	DESCRIPTION
1. SWR 23-0003	1. Safety Parameter Display System (SPDS) Computer digital displays on P680 failed in the middle of the second day of simulator scenarios. The crews were advised to not use the displays and barriers were placed over them.
2. SWR 23-0004	2. SPDS locked up while implementing Emergency Operating Procedures during a simulator scenario for a very short time. This did not affect the applicant crew's ability to complete the scenario.
3. SWR 23-0005	3. Several spurious radiation monitor alarms were received. One occurred during a simulator scenario. This caused the NRC Examiners to advise the crew to disregard the alarm. Other times the alarms occurred with no applicants in the simulator.
4. SWR 23-0006	4. A simulator computer failure resulted in the inability to finish a scenario as planned and the inability to delete several malfunctions. The applicants had already completed all Critical Task actions and all required event verifiable actions when the failure occurred.
5. SWR 23-0007	5. The RCIC Trip Throttle valve switch had sticky contacts resulting in confusion for a short time for one applicant during a Job Performance Measure (JPM). Subsequently, the control switch was exercised between each JPM performance.