



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

October 31, 2023

Eric S. Carr
President – Nuclear Operations
and Chief Nuclear Officer
Dominion Energy, Inc.
Innsbrook Technical Center
5000 Dominion Blvd.
Glen Allen, VA 23060-6711

SUBJECT: MILLSTONE POWER STATION, UNIT 3 – INITIAL OPERATOR LICENSING
EXAMINATION REPORT 05000423/2023301

Dear Eric Carr:

On September 20, 2023, the U.S. Nuclear Regulatory Commission (NRC) completed an examination at Millstone Power Station, Unit 3. The enclosed examination report documents the examination results, which were discussed on October 26, 2023, with M. Goolsbey, Training Manager, and other members of your staff.

The examination included the evaluation of four applicants for reactor operator licenses, two applicants for instant senior reactor operator licenses, and five 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 that 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 October 26, 2023.

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. 05000423
License No. NPF-49

Enclosure:
Examination Report 05000423/2023301
w/Attachment 1: Supplementary Information
Attachment 2: Simulator Fidelity Report

cc w/ enclosure: Distribution via ListServ

SUBJECT: MILLSTONE POWER STATION, UNIT 3 – INITIAL OPERATOR LICENSING EXAMINATION REPORT 05000423/2023301 DATED OCTOBER 31, 2023

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EXAMINATION REPORT

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

Docket No. 05000423

License No. NPF-49

Enterprise Identifier: L-2023-OLL-0010

Report No. 05000423/2023301

Licensee: Dominion Energy Nuclear Connecticut, Inc.

Facility: Millstone Power Station, Unit 3

Location: Waterford, CT

Dates: September 11–14, 2023 (Operating Test Administration)
September 20, 2023 (Written Examination Administration)
October 3, 2023 (Facility Submitted Post-Exam Package)
September 18–October 23, 2023 (NRC Examination Grading)
October 26, 2023 (Licenses Issued)

Examiners: J. DeMarshall, Senior Operations Engineer, Chief Examiner
B. Fuller, Senior Operations Engineer
B. Bergeon, Senior Operations Engineer (RGN-III)
P. Ott, Operations Engineer
B. Dyke, Operations Engineer

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

Enclosure

SUMMARY

ER 05000423/2023301; September 11–20, 2023; Millstone Power Station, Unit 3; Initial Operator Licensing Examination Report.

Five NRC examiners evaluated the competency of four applicants for a reactor operator license, two applicants for instant senior reactor operator licenses, and five 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 September 20, 2023. NRC examiners administered the operating tests during the period September 11–14, 2023. 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 100 percent of 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 September 20, 2023, 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 October 3, 2023.

The NRC examination team administered various portions of the operating examination during the period September 11–14, 2023. The four 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 two applicants seeking an instant senior reactor operator license 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 five 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 86.9 percent and ranged from 85.3 to 88.0 percent. The senior operator applicants' average score was 91.7 percent and ranged from 87.0 to 96.0 percent.

ES-4.4 of NUREG-1021 instructs the licensee to evaluate the overall group performance of each written examination question to identify any indications of a problem with the question or a deficiency in the facility licensee training program. The licensee conducted this analysis and submitted the results to the Chief Examiner. The performance analysis revealed that three questions were missed by more than 50 percent of the applicants. Specifically, Reactor Operator Questions 1, 22, and 44 were missed by 54 percent of the applicants. The licensee determined that the three questions were not flawed and attributed applicant performance on each of these to knowledge gaps. The licensee addressed the associated knowledge deficiencies by remediating the applicants during the examination review session conducted on September 21, 2023.

ES-4.4 of NUREG-1021 also instructs the licensee to submit all post-examination comments made by the facility licensee and the applicants. No post-examination comments were submitted by the licensee.

.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 April 10, 2023. 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 June 19, 2023. 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 August 14, 2023. The licensee satisfactorily completed comment resolution on September 1, 2023.

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.

40A6 Meetings, Including Exit

The Chief Examiner presented the examination results to M. Goolsbey, Training Manager, and other members of the licensee's staff on October 26, 2023.

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

ATTACHMENT 1: SUPPLEMENTARY INFORMATION
ATTACHMENT 2: SIMULATOR FIDELITY REPORT

SUPPLEMENTARY INFORMATION

KEY POINTS OF CONTACT

Licensee Personnel

Mark Goolsbey, Training Manager
Dan Brown, Superintendent Nuclear Training Operations
William M. Forrestt, Lead Exam Writer
Paul Scott, Initial License Training Supervisor

ITEMS OPENED, CLOSED, AND DISCUSSED

NONE

ADAMS DOCUMENTS REFERENCED

Accession No. ML23298A179 – 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. ML23298A183 – 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.)

SIMULATOR FIDELITY REPORT

Facility Licensee: Millstone Power Station, Unit 3

Facility Docket No: 05000423

Operating Tests Administered on: September 11–14, 2023

This form is to be used only to report observations. These observations do not constitute audit or inspection findings and, without further verification and review in accordance with Inspection Procedure 71111.11, “Licensed Operator Requalification Program and Licensed Operator Performance,” are not indicative of noncompliance with 10 CFR 55.46, “Simulation Facilities.” No licensee action is required in response to these observations.

While conducting the simulator portion of the operating tests, examiners observed the following items:

ITEM	DESCRIPTION
<p>a) Train ‘A’ RHR Flow did not respond as expected when adjusting the Flow Controller (JPM S4)</p> <p>b) Intact ‘B’ Steam Generator Pressure indication was 100 psig lower than both the ‘A’ and ‘C’ Steam Generators following a Loss of Offsite Power (Scenario 3).</p>	<p>CA12150746 was generated to evaluate the following potential simulator issues:</p> <p>a) On multiple occasions during the performance of Control Room System JPM S4, Train ‘A’ RHR Flow did not increase as expected when applicants were adjusting the Flow Controller.</p> <p>b) Scenario 3 involved a Loss of Offsite Power (LOP) with the ability to re-energize Bus 34C only, via the ‘A’ EDG. During two of the three scenario runs, ‘B’ Steam Generator parameters following the LOP led the crews to believe that the intact ‘B’ Steam Generator was faulted.</p>