



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

November 10, 2021

Mr. Daniel G. Stoddard
Senior Vice President 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 05000423/2021301

Dear Mr. Stoddard:

On September 17, 2021, 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 19, 2021, with Ms. C. Walsh, Training Manager, and other members of your staff.

The examination included the evaluation of six applicants for reactor operator licenses, three 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 11. The license examiners determined 12 of the 13 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 19, 2021.

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. 50-423
License No. NPF-49

Enclosure:
Examination Report 05000423/2021301
w/Attachment: Supplementary Information

cc w/encl: Distribution via ListServ

SUBJECT: MILLSTONE POWER STATION, UNIT 3 – INITIAL OPERATOR LICENSING
EXAMINATION REPORT 05000423/2021301 DATED NOVEMBER 10, 2021

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

Docket No. 50-423

License No. NPF-49

Report No. 05000423/2021301

Licensee: Dominion Energy Connecticut, Inc. (Dominion)

Enterprise Identifier: L-2021-OLL-0005

Facility: Millstone Power Station, Unit 3

Location: P.O. Box 128
Waterford, CT 06385

Dates: September 13–17, 2021 (Operating Test Administration)
September 21, 2021 (Written Examination Administration)
September 27, 2021 (Licensee Submitted Post Exam Package)
September 28 - October 15, 2021 (NRC Examination Grading)
October 19, 2021 (Licenses Issued)

Examiners: T. Setzer, Chief Examiner, Operations Branch
T. Fish, Senior Operations Engineer
C. Lally, Senior Operations Engineer
P. Ott, Operations Engineer
M. Patel, Senior Reactor Inspector
T. Wingfield, Operations Engineer

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

Enclosure

SUMMARY

ER 05000423/2021301; 09/13/2021 – 09/17/2021; Millstone Power Station, Unit 3; Initial Operator Licensing Examination Report.

Six NRC examiners evaluated the competency of six applicants for reactor operator licenses, three applicants for instant senior reactor operator licenses, and four applicants for upgrade senior reactor operator licenses. The facility developed the examinations using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 11.

The written examination was administered by the facility on September 21, 2021. NRC examiners administered the operating tests September 13–17, 2021. The NRC examiners determined that 12 of the 13 applicants satisfied the requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 55, and the appropriate licenses have been issued.

No findings were identified.

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 in detail 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 21, 2021, 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 September 27, 2021.

The NRC examination team administered the various portions of the operating examination to all applicants on September 13–17, 2021. The applicants for reactor operator licenses participated in at least two dynamic simulator scenarios, a control room and facilities walkthrough test consisting of 11 system tasks, and an administrative test consisting of four administrative tasks. The 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 10 system tasks, and an administrative test consisting of five administrative tasks. The applicants seeking an upgrade senior reactor license 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.

Twelve of the thirteen applicants passed the operating test and all applicants passed the written examination. For the written examinations, the reactor operator applicants' average score was 91.8 percent and ranged from 85.3 to 96.0 percent, the senior operator applicants' average score was 89.6 percent and ranged from 82.0 to 94.0

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 this written examination in ADAMS to the public will be delayed for two years.

Chapter ES-403 and Form ES-403-1 of NUREG 1021 require the licensee to analyze the validity of any written examination questions that were missed by half or more of the applicants. Licensee training staff performed this analysis and forwarded it to the Chief Examiner. The licensee also submitted two emailed post-exam comments dated September 27, 2021, and October 6, 2021, both of which requested a change to the answer key for Crew Dynamic Scenario 1, Event 3 (Loss of VIAC 3). The NRC accepted one of the two emailed proposals (email dated October 6, 2021) and made the appropriate changes to the answer key. Details of those post exam comments and the associated NRC response may be accessed in the ADAMS system under the accession numbers noted in the Attachment.

.3 Initial Licensing Examination Development

a. Examination Scope

The facility developed the examinations in accordance with NUREG-1021, Revision 11. All licensee facility training and operations staff involved in examination preparation and validation were listed on a security agreement. The NRC developed the written exam outline and provided it to the licensee on March 2, 2021. The facility licensee submitted the operating examination outline on April 16, 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 June 30, 2021. The Chief Examiner reviewed the draft examination package against the requirements of NUREG-1021 and provided comments to the licensee. The NRC conducted an onsite validation of the operating examinations and provided further comments during the week of August 2–4, 2021. The licensee satisfactorily completed comment resolution on August 16, 2021.

b. Findings

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.

No findings were identified.

.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 11 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 Ms. C. Walsh, Training Manager, and other members of the licensee's staff on October 19, 2021. The licensee acknowledged the findings presented.

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

W. Forrestt, Exam Author

B. Royce, Exam Author

ITEMS OPENED, CLOSED, AND DISCUSSED

None

ADAMS DOCUMENTS REFERENCED

Accession No. ML21263A144 – FINAL-Written Exam (Note: In accordance with current NRC policy, the release of this written examination in ADAMS to the public will be delayed for two years.)

Accession No. ML21263A147 – FINAL-Operating Exam (Note: In accordance with current NRC policy, the release of this operating examination in ADAMS to the public will be delayed for two years.)

Accession No. ML21293A125 – Licensee Post-exam Comments Part I of II (Note: In accordance with current NRC policy, the release of these comments in ADAMS to the public will be delayed for two years.

Accession No. ML21293A130 – Licensee Post-exam Comments Part II of II (Note: In accordance with current NRC policy, the release of these comments in ADAMS to the public will be delayed for two years.

Accession No. ML21293A271 – NRC Response to Licensee Post-Exam Comments (Note: In accordance with current NRC policy, the release of this response in ADAMS to the public will be delayed for two years.