



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
2100 RENAISSANCE BLVD., SUITE 100
KING OF PRUSSIA, PA 19406-2713

November 23, 2016

Mr. Daniel G. Stoddard
Senior Vice President and Chief Nuclear Officer
Innsbrook Technical Center
5000 Dominion Blvd.
Glen Allen, VA 23060-6711

SUBJECT: MILLSTONE POWER STATION, UNIT 2 – INITIAL OPERATOR LICENSING
EXAMINATION REPORT 05000336/2016301

Dear Mr. Stoddard:

On September 12, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed an examination at Millstone Power Station, Unit 2. The enclosed examination report documents the examination results, which were discussed on October 20, 2016, with Messrs. Jeff Stafford, Scott Smith, and other members of your staff.

The examination included the evaluation of four applicants for reactor operator licenses, four applicants for instant senior reactor operator licenses, and one applicant for an upgrade senior reactor operator license. The written and operating examinations were developed using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 10. The license examiners determined that six of the nine applicants satisfied the requirements of 10 CFR Part 55, and the appropriate licenses were issued on October 20, 2016.

No findings were identified during this examination.

One applicant for an instant senior reactor operator failed the written portion of the exam and was denied a license. Two applicants for a reactor operator license failed the operating portion of the exam and were denied licenses. One applicant for an instant senior reactor operator license passed the exam but his license is being held based on his written exam grade. Licenses for applicants with written exam passing grades of 82 percent or below are normally held for review until those applicants who failed the examination have had an opportunity to appeal their license denials.

D. Stoddard

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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 the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

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

Docket No. 50-336
License No. DPR-65

Enclosure:
Examination Report 05000336/2016301
w/Attachment: Supplementary Information

cc w/encl: Distribution via ListServ

D. Stoddard

-2-

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Sincerely,

/RA/

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

Docket: 50-336
License: DPR-65
Report: 05000336/2016301
Licensee: Dominion
Facility: Millstone Power Station, Unit 2
Location: Waterford, CT 06385
Dates: September 5, 2016 (Operating Test Administration)
September 12, 2016 (Written Examination Administration)
September 26, 2016 (Licensee Submitted Post Exam Package)
October 17, 2016 (NRC Examination Grading)
October 20, 2016 (Licenses Issued)

Examiners: B. Fuller, Chief Examiner, Operations Branch
J. D'Antonio, Senior Operations Engineer
P. Presby, Senior Operations Engineer
P. Ott, Operations Engineer

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

Enclosure

SUMMARY

ER 05000336/2016301; September 5 -12, 2016; Millstone Power Station, Unit 2; Initial Operator Licensing Examination Report

Four NRC examiners evaluated the competency of four applicants for reactor operator licenses, four applicants for instant senior reactor operator licenses, and one applicant for an upgrade senior reactor operator license at Millstone Power Station, Unit 2. The facility licensee developed the examinations using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 10. The written examination was administered by the facility on September 12, 2016. NRC examiners administered the operating tests on September 5-9, 2016. The NRC examiners determined that six of the nine applicants satisfied the requirements of 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 Applicationsa. Scope

The examiners reviewed all nine 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 nine of 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 Performancea. Examination Scope

On September 12, 2016, the licensee proctored the administration of the written examinations to all nine applicants. The licensee staff graded the written examinations, analyzed the results, and presented their analysis to the NRC on September 23, 2016.

The NRC examination team administered the various portions of the operating examination to all nine applicants on September 5-9, 2016. The four applicants for reactor operator licenses participated in three 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 four applicants seeking an instant senior reactor operator license participated in three 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 one applicant for an upgrade senior reactor operator license participated in two dynamic simulator scenarios, a control room and facilities walkthrough test consisting of five system tasks, and an administrative test consisting of five administrative tasks.

b. Findings

Seven of the applicants passed all parts of the operating test. One senior reactor operator applicant failed the written examination. For the written examinations, the reactor operator applicants' average score was 84.44 percent and ranged from 82.66 to 88.00 percent, the senior operator applicants' average score was 82.60 percent and ranged from 76.00 to 90.00 percent. The overall written examination average was

84.11 percent. The text of the examination questions, the licensee's examination analysis, and the licensee's post-examination comments may be accessed in the Agencywide Documents Access and Management System (ADAMS) 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.

The NRC examiners completed the final grading of the written examination on September 27, 2016, and conducted a review of each missed question to determine the accuracy and validity of the examination questions. In accordance with current NRC policy, the release of this written examination will be delayed for two years. The text of the examination questions, the licensee's examination analysis, and the licensee's post-examination comments may be accessed in ADAMS under the accession numbers noted in the Attachment.

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. The licensee conducted this performance analysis for ten questions that met these criteria and submitted the analysis to the chief examiner.

.3 Initial Licensing Examination Development

a. Examination Scope

The facility licensee developed the examinations in accordance with NUREG-1021, Revision 10. All licensee facility training and operations staff involved in examination preparation and validation were listed on a security agreement. The facility licensee submitted both the written and operating examination outlines on June 15, 2016. 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 July 15, 2016. The chief examiner reviewed the draft examination package against the requirements of NUREG-1021, and provided comments to the licensee on the examination on August 11, 2016. The NRC conducted an onsite validation of the operating examinations and provided further comments during the week of August 8, 2016. The licensee satisfactorily completed comment resolution on August 25, 2016.

b. Findings

The NRC approved the initial examination outline and advised the licensee to proceed with the operating examination development.

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 10 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. Jeff Stafford, Training Manager, and other members of the licensee's management staff on October 20, 2016.

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

C. Walsh, Operations Training Superintendent
W. Chesnutt, Supervisor Nuclear Operations Support
R. Cimmino, Exam Developer
D. Jacobs, Exam Developer

NRC Personnel

J. Ambrosini, Senior Resident Inspector

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened

NONE

Opened and Closed

NONE

Closed

NONE

Discussed

NONE

ADAMS DOCUMENTS REFERENCED

Accession No. ML16327A035 – 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. ML16327A032 – FINAL-Operating Exam

Accession No. ML16327A034 – FINAL-Post Exam Comments, Resolutions, and Technical References