



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

January 08, 2015

Mr. David A. Heacock  
President and Chief Nuclear Officer  
Dominion Resources  
5000 Dominion Blvd.  
Glen Allen, VA 23060-6711

**SUBJECT: MILLSTONE POWER STATION, UNIT 2 - NRC INITIAL OPERATOR  
LICENSING EXAMINATION REPORT 05000336/2014301**

Dear Mr. Heacock:

On October 31, 2014, the U.S. Nuclear Regulatory Commission (NRC) completed an examination at Millstone Power Station, Unit 2. The enclosed report documents the examination findings, which were discussed on December 18, 2014, with Mr. John Palmer, Millstone Training Director.

The examination included the evaluation of three applicants for reactor operator licenses, two applicants for instant senior operator licenses, and three applicants for upgrade senior operator licenses. The NRC developed the written and operating examinations using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 9, Supplement 1. The license examiners determined that all eight applicants satisfied the requirements of 10 CFR Part 55, and the appropriate licenses were issued on December 18, 2014.

No findings were identified during this examination.

One instant SRO license applicant will not be issued a license until the facility certifies in writing that the individual has acquired all of the training and experience for which a waiver was previously granted.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams/web-based.html> (the Public Electronic Reading Room).

Sincerely,

**/RA/**

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

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President and Chief Nuclear Officer  
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Sincerely,

/RA/

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

Enclosure: NRC Initial Operator Licensing Examination Report  
05000336/2014301 w/Attachment: Supplemental Information  
cc w/encl: Distribution via ListServ Distribution: (Next Page)  
DOCUMENT NAME: G:\DRS\Operations Branch\Presby\Exam FY15-MS2 Oct 14 (U01891)\EXAM REPORT.docx  
ADAMS PKG: ML14043A009 ADAMS ACCESSION NO.: ML15012A241

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J. Palmer, Manager - Nuclear Training  
W. D. Bartron, Supervisor, Station Licensing  
Region I Docket Room (with concurrences)  
P. Presby, Chief Examiner, DRS  
D. Jackson, DRS  
DRS Master Exam File (C. Bixler) (w/concurrences)  
DRS File

**EXAMINATION REPORT**

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

Docket No. 50-336

License No. DPR-65

Report No. 05000336/2014301

Licensee: Dominion Resources

Facility: Millstone Power Station, Unit 2

Location: Rope Ferry Rd  
Route 156  
Waterford, CT 06385

Dates: September 29, 2014 – October 2, 2014 (Operating Test Administration)  
October 31, 2014 (Written Examination Administration)  
November 21, 2014 (Licensee Submitted Post Exam Package)  
October 3, 2014 – December 17, 2014 (NRC Examination Grading)  
December 18, 2014 (Licenses Issued)

Examiners: P. Presby, Chief Examiner, Operations Branch  
J. D'Antonio, Senior Operations Engineer  
T. Hedigan, Operations Engineer

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

## SUMMARY OF FINDINGS

ER 05000336/2014301; September 29 – October 31, 2014; Millstone Power Station, Unit 2; Initial Operator Licensing Examination Report;

NRC examiners evaluated the competency of three applicants for reactor operator licenses, two applicants for instant senior operator licenses and three applicants for upgrade senior operator licenses at Millstone Power Station, Unit 2. The NRC developed the examinations using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 9, Supplement 1. NRC examiners administered the operating tests on September 29 – October 2, 2014. The written examination was administered by the facility on October 31, 2014. The license examiners determined that all of the eight 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 Applications

###### a. Scope

The examiners reviewed all eight 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 three 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 Performance

###### a. Examination Scope

The NRC examination team administered the various portions of the operating examination to all eight applicants on September 29, 2014 – October 2, 2014. The three applicants for reactor operator licenses participated in two dynamic simulator scenarios, in a control room and facilities walkthrough test consisting of 11 system tasks, and an administrative test consisting of four administrative tasks. The two applicants seeking an instant senior operator license participated in 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 three applicants for upgrade senior operator licenses 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.

On October 31, 2014, the licensee proctored the administration of the written examinations to all number applicants. The licensee staff graded the written examinations, analyzed the results, and presented their analysis to the NRC on November 21, 2014.

Enclosure

b. Findings

All eight of the applicants passed all parts of the operating test. For the written examinations, the reactor operator applicants' average score was 84.44 percent and ranged from 81.33 to 86.67 percent, the senior operator applicants' average score was 87.68 percent and ranged from 81.82 to 87.88 percent. The overall written examination average was 86.46 percent. The text of the examination questions, the licensee's examination analysis, and the licensee's post-examination comments may be accessed in the ADAMS system under the accession numbers noted in Attachment 1. 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 December 17, 2014, 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 the ADAMS system 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 eight questions that met these criteria and submitted the analysis to the chief examiner.

The licensee submitted one post-examination question comment on November 21, 2014. The NRC reviewed the facility's post-exam comment submittal package and accepted facility recommendations on the question. Question #87 was deleted from the SRO exam. The text of the examination questions, the licensee's examination analysis, and the licensee's post-examination comments with the NRC resolutions may be accessed in the ADAMS system under the accession numbers noted in the Attachment 1. In accordance with current NRC policy the release of this written examination will be delayed for two years.

.3 Initial Licensing Examination Development

a. Examination Scope

The NRC developed the examinations in accordance with NUREG-1021, Revision 9, Supplement 1. All licensee facility training and operations staff involved in examination preparation and validation were listed on a security agreement.

b. Findings

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 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. John Palmer, Millstone Training Director on December 18, 2014. He acknowledged the findings presented.

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

ATTACHMENT: SUPPLEMENTAL INFORMATION



**SUPPLEMENTAL INFORMATION**

**KEY POINTS OF CONTACT**

**Licensee Personnel**

J. Palmer, Millstone Training Director  
M. Siebert, Supervisor, Initial License Training  
M. Cote, Exam Project Coordinator  
R. Cimmino, Senior Operations Instructor  
R. Ashley, Senior Operations Instructor

**NRC Personnel**

D. Jackson, Chief, Operator Licensing Branch

**ITEMS OPENED, CLOSED, AND DISCUSSED**

NONE

**ADAMS DOCUMENTS REFERENCED**

Accession No. ML15007A403 – 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. ML15007A437 – FINAL-Operating Exam  
Accession No. ML15009A074 – Post Exam Comments and NRC Resolution of Post-Exam Comments