

May 2, 2007

Mr. David A. Christian  
Sr. Vice President and Chief Nuclear Officer  
Dominion Resources  
5000 Dominion Boulevard  
Glen Allen, VA 23060-6711

SUBJECT: MILLSTONE UNIT 3 OPERATOR AND SENIOR REACTOR OPERATOR  
INITIAL EXAMINATION REPORT NO. 05000423/2007301

Dear Mr. Christian:

This report transmits the results of the Reactor Operator (RO) and Senior Reactor Operator (SRO) licensing examination conducted by the NRC during the period of March 12 -19, 2007. This examination addressed areas important to public health and safety and was developed and administered using the guidelines of the "Examination Standards for Power Reactors" (NUREG-1021, Revision 9).

Based on the results of the examination, all ten applicants passed all portions of the examination. The ten applicants included five ROs, one instant SRO and four upgrade SROs. Examination results indicated that the applicants were well prepared for the examination. Mr. D. Silk discussed performance insights observed during the examination with Mr. T. Horner on March 16, 2007. On April 5, 2007, final examination results, including individual license numbers, were given during a telephone call between Mr. M. Sykes and Mr. T. Horner.

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 (ADAMS). These records include the final examination and are available in ADAMS (Master File - Accession Number ML060800095; RO and SRO Written - Accession Number ML070990457; RO and SRO Operating Section A - Accession Number ML070990466; RO and SRO Operating Section B - Accession Number ML070990481; and RO and SRO Operating Section C - Accession Number ML070990501). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Mr. D. Christian

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Should you have any questions regarding this examination, please contact me at (610) 337-5046, or by E-mail at MDS1@NRC.GOV.

Sincerely,

**/RA/**

Marvin D. Sykes, Chief  
Operations Branch  
Division of Reactor Safety

Docket No: 50-423

License No: NPF-4

Enclosure: Initial Examination Report No. 05000423/2007301

cc w/encl:

J. A. Price, Site Vice President, Millstone Station  
C. L. Funderburk, Director, Nuclear Licensing and Operations Support  
D. W. Dodson, Supervisor, Station Licensing  
L. M. Cuoco, Senior Counsel  
C. Brinkman, Manager, Washington Nuclear Operations  
J. Roy, Director of Operations, Massachusetts Municipal Wholesale Electric Company  
First Selectmen, Town of Waterford  
B. Sheehan, Co-Chair, NEAC  
E. Woollacott, Co-Chair, NEAC  
E. Wilds, Director, State of Connecticut SLO Designee  
J. Buckingham, Department of Public Utility Control  
G. Proios, Suffolk County Planning Dept.  
R. Shadis, New England Coalition Staff  
G. Winslow, Citizens Regulatory Commission (CRC)  
S. Comley, We The People  
D. Katz, Citizens Awareness Network (CAN)  
R. Bassilakis, CAN  
J. M. Block, Attorney, CAN  
P. Eddy, Electric Division, Department of Public Service, State of New York  
P. Smith, President, New York State Energy Research and Development Authority  
J. Spath, SLO Designee, New York State Energy Research and Development Authority  
J. T. Spence, Manager - Nuclear Training

Mr. D. Christian

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Should you have any questions regarding this examination, please contact me at (610) 337-5046, or by E-mail at MDS1@NRC.GOV.

Sincerely,

/RA/

Marvin D. Sykes, Chief  
Operations Branch  
Division of Reactor Safety

Docket No: 50-423  
License No: NPF-49

Enclosure: Initial Examination Report No. 05000423/2007301

cc w/encl:

- J. A. Price, Site Vice President, Millstone Station
- C. L. Funderburk, Director, Nuclear Licensing and Operations Support
- D. W. Dodson, Supervisor, Station Licensing
- L. M. Cuoco, Senior Counsel
- C. Brinkman, Manager, Washington Nuclear Operations
- J. Roy, Director of Operations, Massachusetts Municipal Wholesale Electric Company
- First Selectmen, Town of Waterford
- B. Sheehan, Co-Chair, NEAC
- E. Woollacott, Co-Chair, NEAC
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- J. Buckingham, Department of Public Utility Control
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- R. Bassilakis, CAN
- J. M. Block, Attorney, CAN
- P. Eddy, Electric Division, Department of Public Service, State of New York
- P. Smith, President, New York State Energy Research and Development Authority
- J. Spath, SLO Designee, New York State Energy Research and Development Authority
- J. T. Spence, Manager - Nuclear Training

**SUNSI Review Complete:       DMS       (Reviewer's Initials)**

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OFFICIAL RECORD COPY

Mr. D. Christian

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Distribution w/encl:

DRS Master Exam File (C. Bixler) (w/concurrences)

DRS File

Distribution w/encl: **VIA E-MAIL:**

S. Collins, RA

M. Dapas, DRA

A. R. Blough, DRS

M. Sykes, DRS

D. Silk, Chief Examiner, DRS

J. Lamb, RI OEDO

H. Chernoff, NRR

J. Lubinski, NRR

V. Nerses, NRR, PM

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S. Schneider, Senior Resident Inspector

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Region I Docket Room (with concurrences)

S. Glenn, INPO ([GlennSG@Inpo.org](mailto:GlennSG@Inpo.org))

U. S. NUCLEAR REGULATORY COMMISSION

REGION I

Docket No: 50-423

License No: NPF-49

Report No: 05000423/2007301

Licensee: Dominion Nuclear Connecticut, Inc.

Facility: Millstone Unit 3

Dates: March 19, 2007 (Written Examination Administration)  
March 12-16, 2007 (Operating Test Administration)  
March 27, 2007 (Examination Grading)  
March 27, 2007 (Final facility post exam comments)

Examiners: D. Silk, Senior Operations Engineer (Chief Examiner)  
B. Haagensen, Operations Engineer  
G. Johnson, Operations Engineer

Approved by: Marvin D. Sykes, Chief  
Operations Branch  
Division of Reactor Safety

## SUMMARY OF FINDINGS

IR 050004243/2007-301; 03/12-19/07; Millstone Unit 3; Initial Operator Licensing Examination. Ten of ten applicants passed the examination (five reactor operators, one SRO instant, and four SRO upgrades).

The written examinations were administered by the facility and the operating tests were administered by three NRC region-based examiners. There were no inspection findings of significance associated with the examinations.

A. NRC-Identified Findings

**Cornerstone: Mitigating Systems**

None

B. Licensee-Identified Findings

None

## REPORT DETAILS

### 1. REACTOR SAFETY

#### Mitigating Systems - Reactor Operator (RO) and Senior Reactor Operator (SRO) Initial OR Retake License Examination

##### a. Scope of Review

The NRC examination team developed the written and operating initial examination and together with Millstone Unit 3 training and operations personnel verified or ensured, as applicable, the following:

- The examination was prepared and developed in accordance with the guidelines of Revision 9 of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors." A review was conducted both in the Region I office and at the Millstone plant and training facility. Final resolution of comments and incorporation of test revisions were conducted during and following the onsite preparation week.
- Simulation facility operation was proper.
- A test item analysis was completed on the written examination for feedback into the systems approach to training program.
- Examination security requirements were met.

The NRC examiners administered the operating portion of the examination to all applicants from March 12 to 16, 2007. The written examination was administered by the Millstone training staff on March 19, 2007.

##### b. Findings

###### Grading and Results

All ten applicants (five ROs and five SROs) passed all portions of the initial licensing examination.

See attachment for a summary of facility post-examination comments.

###### Examination Administration and Performance

One simulator fidelity issue was identified and is detailed in the enclosed Simulation Facility Report.

Enclosure

4OA6 Exit Meeting Summary

On April 5, 2007 the NRC provided conclusions and examination results to Millstone Unit 3 management representatives via telephone. License numbers for the ten applicants were also provided during this time.

The NRC expressed appreciation for the cooperation and assistance that was provided during the preparation and administration of the examination by the licensee's training staff.



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**ATTACHMENT**

**SUPPLEMENTAL INFORMATION**

**KEY POINTS OF CONTACT**

Licensee Personnel

T. Horner, Supervisor Initial Operator Training  
R. Martin, Unit 3 Shift Supervisor  
D. Minnich, Unit 3 Instructor  
R. Royce, Unit 3 Instructor

NRC

D. Silk, Senior Operations Engineer  
B. Haagensen, Operations Engineer  
G. Johnson, Operations Engineer

**LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED**

<u>ITEM NUMBER</u>	<u>TYPE</u>	<u>DESCRIPTION</u>
NONE		

Post Exam Comments

Question No.	Facility Comment
65	<p>Recommends deleting this question from the examination as there was no correct answer provided among the four choices. Site specific technical references support this conclusion. The intended answer was developed based upon generic guidance not site specific references.</p> <p>NRC Resolution</p> <p>Comment accepted. Question #65 will be deleted from the examination because no technically correct answer was provided among the choices.</p>

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**ES 501 Simulation Facility Report**

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Facility Licensee: Millstone Unit 3  
Facility Docket No: 50-423/2007301  
Operating Tests Administered on: March 12-16, 2007

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, are not indicative of noncompliance with 10 CFR 55.45(b). These observations do not affect NRC certification or approval of the simulation facility other than to provide information that may be used in future evaluations. No licensee action is required in response to these observations.

While conducting the simulator portion of the operating test, the examiners observed the following item:

- During the simulator scenario portion of the examination, the reactor tripped and SIS actuated due to a small break LOCA. When containment pressure had increased to about 23 psia, the RCS break size was increased to a large break. Containment pressure unexpectedly rose to 60 psia. This caused the simulator to hit an operating limit and freeze. This scenario was run four times and the simulator froze only during the first of four runs with this scenario. During the other runs, containment pressure increased to the expected value of about 45 psia. This issue was documented by the licensee in DR 2007-3.