

April 17, 2007

Mr. Kevin Bronson  
Site Vice President  
Entergy Nuclear Operations, Inc.  
Pilgrim Nuclear Power Station  
600 Rocky Hill Road  
Plymouth, MA 02360-5508

SUBJECT: PILGRIM NUCLEAR POWER STATION OPERATOR AND SENIOR REACTOR  
OPERATOR INITIAL EXAMINATION REPORT NO. 05000293/07-301

Dear Mr. Bronson:

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 February 23 - March 1, 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 applicants passed all portions of the examination. The five applicants included two ROs and three instant SROs. Examination results indicated that the applicants were well prepared for the examination. Mr. Johnson discussed performance insights observed during the examination with Mr. Mark Santiago on March 1, 2007. On March 8, 2007, final examination results, including individual license numbers, were given during a telephone call between Mr. Johnson and Mr. Santiago.

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 ML060800104; RO and SRO Written - Accession Number ML070820363; RO and SRO Operating Section A - Accession Number ML070820392; RO and SRO Operating Section B - Accession Number ML070820405; and RO and SRO Operating Section C - Accession Number ML070820446), and ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Mr. Kevin Bronson

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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. 50-293  
License No. DPR-35

Enclosure: Initial Examination Report No. 05000293/07-301

cc w/encl:

G. J. Taylor, Chief Executive Officer, Entergy Operations  
M. Kansler, President, Entergy Nuclear Operations, Inc.  
J. T. Herron, Senior Vice President  
M. Balduzzi, Senior Vice President, Northeastern Regional Operations  
C. Schwarz, Vice-President, Operations Support  
S. J. Bethay, Director, Nuclear Safety Assurance  
O. Limpas, Vice President, Engineering  
J. F. McCann, Director, Licensing  
C. D. Faison, Manager, Licensing  
R. Patch, Director of Oversight, Entergy Nuclear Operations, Inc.  
B. S. Ford, Manager, Licensing, Entergy Nuclear Operations, Inc.  
T. C. McCullough, Assistant General Counsel  
S. Lousteau, Treasury Department, Entergy Services, Inc.  
Director, Radiation Control Program, Commonwealth of Massachusetts  
W. Irwin, Chief, CHP, Radiological Health, Vermont Department of Health  
The Honorable Therese Murray  
The Honorable Vincent deMacedo  
Chairman, Plymouth Board of Selectmen  
Chairman, Duxbury Board of Selectmen  
Chairman, Nuclear Matters Committee  
Plymouth Civil Defense Director  
D. O'Connor, Massachusetts Secretary of Energy Resources  
J. Miller, Senior Issues Manager  
Office of the Commissioner, Massachusetts Department of Environmental Protection  
Office of the Attorney General, Commonwealth of Massachusetts  
Electric Power Division, Commonwealth of Massachusetts  
R. Shadis, New England Coalition Staff  
D. Katz, Citizens Awareness Network  
Chairman, Citizens Urging Responsible Energy  
J. Sniezek, PWR SRC Consultant  
M. Lyster, PWR SRC Consultant

Mr. Kevin Bronson

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Director, Radiation Control Program, Commonwealth of Massachusetts  
W. Irwin, Chief, CHP, Radiological Health, Vermont Department of Health  
The Honorable Therese Murray  
The Honorable Vincent deMacedo  
Chairman, Plymouth Board of Selectmen  
Chairman, Duxbury Board of Selectmen  
Chairman, Nuclear Matters Committee  
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D. O'Connor, Massachusetts Secretary of Energy Resources  
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Office of the Commissioner, Massachusetts Department of Environmental Protection  
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Chairman, Citizens Urging Responsible Energy  
J. Sniezek, PWR SRC Consultant  
M. Lyster, PWR SRC Consultant  
W. Meinert, Nuclear Engineer

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<b>DATE</b>	04/17/07	04/16/07	04/17/07	04/17/07	

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Mr. Kevin Bronson

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J. Muckerheide, MEMA and Commonwealth of Massachusetts, SLO Designee  
Commonwealth of Massachusetts, Secretary of Public Safety  
V. Fallacaro, Manager, Training and Development

Mr. Kevin Bronson

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NAME	CJBixler/MDS for	GAJohnson/JMD for	MDSykes/MDS	RJPowell/NSneller for		
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U. S. NUCLEAR REGULATORY COMMISSION

REGION I

Docket No: 50-293

License No: DPR-35

Report No: 05000293/07-301

Licensee: Entergy Nuclear Operations, Inc.

Facility: Pilgrim Nuclear Power Station

Dates: February 23, 2007 (Written Examination Administration)  
February 26-March 1, 2007 (Operating Test Administration)  
March 1-March 6, 2007 (Examination Grading)  
March 1, 2007 (Final facility post exam comments on JPMs, end  
of examination period)  
March 8, 2007 (Licenses issued to five applicants)

Examiners: Gilbert A. Johnson, Operations Engineer (Chief Examiner)  
Joseph M. D'Antonio, Senior Operations Engineer  
Peter A. Presby, Operations Engineer

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

## **SUMMARY OF FINDINGS**

IR 05000293/2007-301; February 23, 2007 - March 1, 2007; Pilgrim Nuclear Power Station; Initial Operator Licensing Examination. Five of five applicants passed the examination (two reactor operators, and three SRO instants).

The written examinations were administered by the facility and the operating tests were administered by three NRC region-based examiners. The examiners observed Simulator Fidelity during the administration of the Operating test. There were no inspection findings of significance associated with the examinations.

## REPORT DETAILS

### 1. REACTOR SAFETY

#### Mitigating Systems - Reactor Operator (RO) and Senior Reactor Operator (SRO) Initial

##### a. Scope of Review

The facility examination team developed the written and operating initial examination. NRC examiners, together with facility 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 Peach Bottom 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 February 26, 2007 to March 1, 2007. The written examination was previously administered by the PNPS training staff on February 23, 2007.

##### b. Findings

###### Grading and Results

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

The facility had no post examination comments.

###### Examination Administration and Performance

No findings of significance were identified. One JPM was found to be defective after administration and was replaced. This was documented by the licensee in CR-PNP-2007-00762. The replacement JPM addressed the same K/A area and was successfully administered to all applicable applicants.

Enclosure



4OA6 Exit Meeting Summary

On March 8, 2007, the NRC provided conclusions and examination results to PNPS management representatives via the telephone. License numbers for five of five 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.

ATTACHMENT: SUPPLEMENTAL INFORMATION

Enclosure

A1-1

**ATTACHMENT**

**SUPPLEMENTAL INFORMATION**

**KEY POINTS OF CONTACT**

Licensee Personnel

Robert Coolage	Supervisor, Operator Training
Mark Santiago	Superintendent, Operator Training
David Noyes	Assistant Operations Manager

NRC

Gilbert A. Johnson	Operations Engineer (Chief Examiner)
Joseph M. D'Antonio	Senior Operations Engineer
Peter A. Presby	Operations Engineer

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

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

A2-1

Post Exam Comments (NONE)

Attachment