



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

March 2, 2007

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

SUBJECT: ANNUAL ASSESSMENT LETTER - PILGRIM NUCLEAR POWER STATION  
(REPORT 05000293/2007001)

Dear Mr. Bronson:

On February 13, 2007, the NRC staff completed its performance review of Pilgrim Nuclear Power Station (Pilgrim). Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2006. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in accordance with 10 CFR 2.390" will include the physical protection review and resultant inspection plan.

Overall, Pilgrim operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2008. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 610-337-6967 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Raymond J. Powell, Chief  
Reactor Projects Branch 5  
Division of Reactor Projects

Docket Nos. 50-293  
License Nos. DPR-35

Enclosure: Pilgrim Inspection / Activity Plan

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.  
R. Walker, Director, Massachusetts Radiation Control Program, Department of Public Health  
C. White, RRPT, 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

W. Meinert, Nuclear Engineer

J. Giarrusso, State Liaison Officer, Massachusetts Emergency Management Agency

Commonwealth of Massachusetts, Secretary of Public Safety

**Pilgrim**  
**Inspection / Activity Plan**  
**01/01/2007 - 06/30/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>2/26 EXM - OPERATOR LICENSING INITIAL EXAMS</b>		<b>3</b>			
1	U01637	PILGRIM INITIAL EXAM (FY07)		01/29/2007	02/02/2007	Not Applicable
1	U01637	PILGRIM INITIAL EXAM (FY07)		02/26/2007	03/02/2007	Not Applicable
	<b>7111108G - INSERVICE INSPECTION</b>		<b>1</b>			
1	IP 7111108G	Inservice Inspection Activities - BWR		04/16/2007	04/20/2007	Baseline Inspections
1	IP 7111108G	Inservice Inspection Activities - BWR		04/23/2007	04/27/2007	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		04/23/2007	04/27/2007	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		04/23/2007	04/27/2007	Baseline Inspections
	<b>71152B - PI&amp;R</b>		<b>4</b>			
1	IP 71152B	Identification and Resolution of Problems		06/11/2007	06/15/2007	Baseline Inspections
1	IP 71152B	Identification and Resolution of Problems		06/18/2007	06/22/2007	Baseline Inspections
	<b>7111111B - L.O. REQUAL. PROG. + P/F REVIEW</b>		<b>3</b>			
1	IP 7111111B	Licensed Operator Requalification Program		09/10/2007	09/14/2007	Baseline Inspections
1	IP 7111111B	Licensed Operator Requalification Program		09/18/2007	09/21/2007	Baseline Inspections
	<b>71114 - EP PRGM INSP</b>		<b>1</b>			
1	IP 7111402	Alert and Notification System Testing		07/15/2007	07/20/2007	Baseline Inspections
1	IP 7111403	Emergency Response Organization Augmentation Testing		07/15/2007	07/20/2007	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		07/15/2007	07/20/2007	Baseline Inspections
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		07/15/2007	07/20/2007	Baseline Inspections
1	IP 71151-EP01	Drill/Exercise Performance		07/15/2007	07/20/2007	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		07/15/2007	07/20/2007	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		07/15/2007	07/20/2007	Baseline Inspections
	<b>71111.12 - MAINTENANCE RULE</b>		<b>2</b>			
1	IP 7111112B	Maintenance Effectiveness		07/16/2007	07/20/2007	Baseline Inspections
	<b>71121 - OCC RAD PROT</b>		<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		08/13/2007	08/17/2007	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		08/13/2007	08/17/2007	Baseline Inspections
	<b>MODS - MODS AND 50.59</b>		<b>4</b>			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		08/20/2007	08/24/2007	Baseline Inspections
1	IP 7111117B	Permanent Plant Modifications		08/20/2007	08/24/2007	Baseline Inspections
	<b>7112203 - PUB RAD SAFETY - REMP</b>		<b>1</b>			
1	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Pr		09/17/2007	09/21/2007	Baseline Inspections
	<b>7112103 - OCC RAD SAFETY - INSTRUMENTS</b>		<b>1</b>			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		12/10/2007	12/14/2007	Baseline Inspections

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

**Pilgrim**  
**Inspection / Activity Plan**  
**01/01/2007 - 06/30/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>7111107B - HEAT SINK</b>		<b>1</b>			
1	IP 7111107B	Heat Sink Performance		02/25/2008	02/29/2008	Baseline Inspections
	<b>7111121 - CDBI</b>		<b>6</b>			
1	IP 7111121	Component Design Bases Inspection		04/28/2008	05/02/2008	Baseline Inspections
1	IP 7111121	Component Design Bases Inspection		05/12/2008	05/16/2008	Baseline Inspections
1	IP 7111121	Component Design Bases Inspection		05/19/2008	05/23/2008	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		06/02/2008	06/06/2008	Baseline Inspections

K. Bronson

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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.

R. Walker, Director, Massachusetts Radiation Control Program, Department of Public Health

C. White, RRPT, 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  
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

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J. Sniezek, PWR SRC Consultant  
M. Lyster, PWR SRC Consultant  
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DOCUMENT NAME: S:\ROP-7 EOC Review\2006 ROP-7 Annual Assessment Letters\PDF Merged files\2006 EOC Pilgrim Assessment Letter.wpd

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

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