



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

September 2, 2008

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

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN  
PILGRIM NUCLEAR POWER STATION**

Dear Mr. Bronson:

On August 7, 2008, the NRC staff completed its performance review of the Pilgrim Nuclear Power Station for the first half of the calendar year 2008 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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 "Official Use Only – Security Related Information" will include the physical protection cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at Pilgrim 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 December 31, 2009. 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 end-of-cycle review.

In accordance with 10CFR2.390 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).

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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 610-337-5306 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

***/RA Original Signed By:/***

Donald E. Jackson, Chief  
Projects Branch 5  
Division of Reactor Projects

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

Enclosure: Pilgrim Inspection/ Activity Plan

cc w/encl:

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Vice President, Oversight, Entergy Nuclear Operations  
Senior Manager, Nuclear Safety & Licensing, Entergy Nuclear Operations  
Senior Vice President and COO, Entergy Nuclear Operations  
Assistant General Counsel, Entergy Nuclear Operations  
R. Walker, 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  
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J. Miller, Senior Issues Manager  
Office of the Commissioner, Massachusetts Department of Environmental Protection  
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D. Katz, Citizens Awareness Network  
W. Meinert, Nuclear Engineer  
J. Giarrusso, MEMA, SLO  
Commonwealth of Massachusetts, Secretary of Public Safety

K. Bronson

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DOCUMENT NAME: S:\ROP-9 MID-CYCLE REVIEW\BRANCH 5\2008 MC PG ASSESSMENT LETTER REV 3.DOC

**SUNSI Review Complete: DEJ (Reviewer's Initials) Adams Accession No.**

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NAME	B Norris/BN		D Jackson/DJ		
DATE	08/29/08		08/29/08		

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**Pilgrim 1**  
**Inspection / Activity Plan**  
**08/01/2008 - 12/31/2009**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		08/11/2008	08/15/2008	Baseline Inspections
1	IP 71151	Performance Indicator Verification		08/11/2008	08/15/2008	Baseline Inspections
	<b>7112103 - OCC RAD SAFETY - INSTRUMENTS</b>		<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		10/20/2008	10/24/2008	Baseline Inspections
1	IP 71151	Performance Indicator Verification		10/20/2008	10/24/2008	Baseline Inspections
	<b>TI 176 - TI 176</b>		<b>1</b>			
1	IP 2515/176	Emergency Diesel Generator Tech Spec Surveillance Requirements Re: Endurance & Margin		10/27/2008	10/31/2008	Generic Safety Inspectio
	<b>3/23 EXM - INITIAL OPERATOR LICENSING EXAMS</b>		<b>5</b>			
1	U01744	FY09 - PILGRIM INITIAL OPERATOR LICENSING EXAM		02/23/2009	02/27/2009	Not Applicable
1	U01744	FY09 - PILGRIM INITIAL OPERATOR LICENSING EXAM		03/23/2009	03/27/2009	Not Applicable
	<b>71152B - PI&amp;R BIENNIAL TEAM</b>		<b>4</b>			
1	IP 71152B	Identification and Resolution of Problems		02/09/2009	02/13/2009	Baseline Inspections
1	IP 71152B	Identification and Resolution of Problems		02/23/2009	02/27/2009	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		03/30/2009	04/03/2009	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		03/30/2009	04/03/2009	Baseline Inspections
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		03/30/2009	04/03/2009	Baseline Inspections
1	IP 71151	Performance Indicator Verification		03/30/2009	04/03/2009	Baseline Inspections
	<b>711108G - INSERVICE INSPECTION</b>		<b>1</b>			
1	IP 711108G	Inservice Inspection Activities - BWR		04/27/2009	05/01/2009	Baseline Inspections
	<b>71121 - OCC RAD SAFETY</b>		<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		05/04/2009	05/08/2009	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		05/04/2009	05/08/2009	Baseline Inspections
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		05/04/2009	05/08/2009	Baseline Inspections
1	IP 71151	Performance Indicator Verification		05/04/2009	05/08/2009	Baseline Inspections
	<b>EP PROGR - EP PROGRAM INSPECTION</b>		<b>2</b>			
1	IP 7111402	Alert and Notification System Testing		07/12/2009	07/18/2009	EP Baseline Inspection
1	IP 7111403	Emergency Response Organization Augmentation Testing		07/12/2009	07/18/2009	EP Baseline Inspection
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		07/12/2009	07/18/2009	EP Baseline Inspection
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		07/12/2009	07/18/2009	EP Baseline Inspection
1	IP 71151	Performance Indicator Verification		07/12/2009	07/18/2009	Baseline Inspections
	<b>7112202 - PUB RAD SAFETY - RADWASTE</b>		<b>1</b>			
1	IP 7112202	Radioactive Material Processing and Transportation		07/20/2009	07/24/2009	Baseline Inspections

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

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**08/01/2008 - 12/31/2009**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>711111B</b>	<b>- BIENNIAL REQUAL INSP WITH P/F RESULTS</b>	<b>3</b>			
1	IP 711111B	Licensed Operator Requalification Program		10/12/2009	10/16/2009	Baseline Inspections
	<b>7112203</b>	<b>- PUB RAD SAFETY - REMP</b>	<b>1</b>			
1	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program		09/07/2009	09/11/2009	Baseline Inspections
1	IP 71151	Performance Indicator Verification		09/07/2009	09/11/2009	Baseline Inspections
	<b>TRI FIRE</b>	<b>- TRIENNIAL FIRE PROTECTION INSPECTION</b>	<b>3</b>			
1	IP 7111105T	Fire Protection [Triennial]		09/14/2009	09/18/2009	Baseline Inspections
1	IP 7111105T	Fire Protection [Triennial]		09/28/2009	10/02/2009	Baseline Inspections
	<b>71121</b>	<b>- OCC RAD SAFETY</b>	<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		10/26/2009	10/30/2009	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		10/26/2009	10/30/2009	Baseline Inspections
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		10/26/2009	10/30/2009	Baseline Inspections
1	IP 71151	Performance Indicator Verification		10/26/2009	10/30/2009	Baseline Inspections