



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

March 4, 2009

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 05000293/2009001)**

Dear Mr. Bronson:

On February 11, 2009, the NRC staff completed its performance review of the 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, 2008. 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 security information. A separate letter designated and marked as "Official Use Only – Security Related Information" will include the security cornerstone 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 staff identified four inspection findings for the current twelve month assessment period with a documented cross-cutting theme in the aspect of document and procedure adequacy (H.2(c))¹. In evaluating your scope of efforts and progress in addressing the cross-cutting theme, the staff determined that you had recognized the cross-cutting theme and had taken or scheduled to take appropriate corrective actions. Therefore, the staff has concluded that a substantive cross-cutting issue in the area of Human Performance does not exist at this time. We will monitor your progress in the area of procedure adequacy through the baseline inspection program, including a focused review of your causal factors evaluation and any completed or pending corrective actions.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2010. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival

¹ This is a descriptor which correlates to the cross cutting aspect in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program."

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 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).

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:

Vice President, Operations, Entergy Nuclear Operations
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
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Plymouth Civil Defense Director
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K. Bronson

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Commonwealth of Massachusetts, Secretary of Public Safety
Institute of Nuclear Power Operations (INPO)

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Docket Nos. 50-293
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Enclosure: Pilgrim Inspection/ Activity Plan

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

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OFFICE	RI/DRP		RI/DRP		
NAME	JLilliendahl/jl*		DJackson/dej*		
DATE	03/03/09		03/ 03 /09		

*See prior concurrence

Pilgrim
 Inspection / Activity Plan
 01/01/2009 - 06/30/2010

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1	02/23/2009 02/27/2009	3/23 EXM U01744	- INITIAL OPERATOR LICENSING EXAMS FY09 - PILGRIM INITIAL OPERATOR LICENSING EXAM	4
1	03/23/2009 03/27/2009	U01744	FY09 - PILGRIM INITIAL OPERATOR LICENSING EXAM	
1	02/09/2009 02/13/2009	71152B IP 71152B	- PI&R BIENNIAL TEAM Identification and Resolution of Problems	8
1	02/23/2009 02/27/2009	IP 71152B	Identification and Resolution of Problems	
1	03/30/2009 04/03/2009	71121 IP 7112101	- OCC RAD SAFETY Access Control to Radiologically Significant Areas	1
1	03/30/2009 04/03/2009	IP 7112102	ALARA Planning and Controls	
1	03/30/2009 04/03/2009	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1	03/30/2009 04/03/2009	IP 71151	Performance Indicator Verification	
1	04/27/2009 05/01/2009	7111108G IP 711108G	- INSERVICE INSPECTION Inservice Inspection Activities - BWR	1
1	05/04/2009 05/08/2009	71121 IP 7112101	- OCC RAD SAFETY Access Control to Radiologically Significant Areas	1
1	05/04/2009 05/08/2009	IP 7112102	ALARA Planning and Controls	
1	05/04/2009 05/08/2009	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1	05/04/2009 05/08/2009	IP 71151	Performance Indicator Verification	
1	07/12/2009 07/18/2009	EP PROGR IP 711402	- EP PROGRAM INSPECTION Alert and Notification System Testing	2
1	07/12/2009 07/18/2009	IP 711403	Emergency Response Organization Augmentation Testing	
1	07/12/2009 07/18/2009	IP 711404	Emergency Action Level and Emergency Plan Changes	
1	07/12/2009 07/18/2009	IP 711405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	07/12/2009 07/18/2009	IP 71151	Performance Indicator Verification	
1	07/20/2009 07/24/2009	7112202 IP 7112202	- PUB RAD SAFETY - RADWASTE Radioactive Material Processing and Transportation	1
1	10/12/2009 10/16/2009	7111111B IP 711111B	- BIENNIAL REQUAL INSP WITH P/F RESULTS Licensed Operator Requalification Program	3
1	09/07/2009 09/11/2009	7112203 IP 7112203	- PUB RAD SAFETY - REMP Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	1
1	09/07/2009 09/11/2009	IP 71151	Performance Indicator Verification	
1	09/14/2009 09/18/2009	TRI FIRE IP 7111105T	- TRIENNIAL FIRE PROTECTION INSPECTION Fire Protection [Triennial]	3
1	09/28/2009 10/02/2009	IP 7111105T	Fire Protection [Triennial]	

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

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1	10/26/2009	10/30/2009	71121	- OCC RAD SAFETY	1
			IP 7112101	Access Control to Radiologically Significant Areas	
1	10/26/2009	10/30/2009	IP 7112102	ALARA Planning and Controls	
1	10/26/2009	10/30/2009	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1	10/26/2009	10/30/2009	IP 71151	Performance Indicator Verification	
1	02/15/2010	02/19/2010	7112103	- RAD MONITORING INSTRUMENTS	1
			IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1	04/19/2010	04/23/2010	7111107T	- TRIENNIAL HEAT SINK	1
			IP 7111107T	Heat Sink Performance	
1	05/17/2010	05/21/2010	71121	- OCC RADIATION SAFETY	1
			IP 7112101	Access Control to Radiologically Significant Areas	
1	05/17/2010	05/21/2010	IP 7112102	ALARA Planning and Controls	
1	05/17/2010	05/21/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	

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