



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

March 4, 2011

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR PILGRIM NUCLEAR POWER STATION  
(REPORT 05000293/2010001)

Dear Mr. Smith:

On February 10, 2011, the Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Pilgrim Nuclear Power Station. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2010, through December 31, 2010. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined that overall, Pilgrim Nuclear Power Station operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined that the performance at Pilgrim Nuclear Power Station during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any.

In addition to the inspection activities detailed in the enclosed plan, we have scheduled a review of your proposed commitments made during the license renewal application process. This activity will take place the week of April 25, 2011, during the next refueling outage, and will include an inspector review of Aging Management Program (AMP) implementation. This review will be conducted using Temporary Instruction 2516/001, "Review of License Renewal

R. Smith

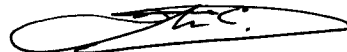
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Activities," which is currently under development. The overall purpose of the review is to assess progress of your voluntary actions associated with monitoring passive components within the scope of license renewal and as tentatively accepted by the staff's safety evaluation report. The Temporary Instruction will be available on the NRC Web site at the following address once it is finalized: <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/temp-instructions/>.

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

Please contact me at 610-337-5306 with any questions you have regarding this letter.

Sincerely,

 FOR

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: Distribution via ListServ

R. Smith

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Sincerely,

**/RA by Thomas Setzer Acting For/**

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

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Enclosure: Pilgrim Inspection/ Activity Plan  
cc w/encl: Distribution via ListServ  
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**SUNSI Review Complete: TCS (Reviewer's Initials)**

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OFFICE	RI/DRP	lhp	RI/DRP		
NAME	T Setzer/TCS		D Jackson/DEJ		
DATE	03/02/11		03/02/11		

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Pilgrim

Inspection / Activity Plan

01/01/2011 - 06/30/2012

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1	02/21/2011 03/04/2011	01/24EXM - INITIAL OPERATOR LICENSING EXAMS U01833	FY11 - PILGRIM, INITIAL OL EXAM	4
1	02/14/2011 02/18/2011	71152B - PI&R IP 71152B	Identification and Resolution of Problems	7
1	02/28/2011 03/04/2011	IP 71152B	Identification and Resolution of Problems	
1	04/25/2011 04/29/2011	71124.01 - RAD HAZARD ASSESS OUT, ALARA,AIR, DOSE IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
1	04/25/2011 04/29/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/25/2011 04/29/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/25/2011 04/29/2011	IP 71124.04	Occupational Dose Assessment	
1	04/25/2011 04/29/2011	IP 71124.05	Radiation Monitoring Instrumentation	
1	05/02/2011 05/06/2011	711108G - INSERVICE INSPECTION IP 711108G	Inservice Inspection Activities - BWR	1
1	06/13/2011 06/17/2011	71124.07 - REMP IP 71124.07	Radiological Environmental Monitoring Program	1
1	06/13/2011 06/17/2011	IP 71151-PR01	RETS/ODCM Radiological Effluent	
1	07/11/2011 07/15/2011	EP PROGR - EP PROGRAM INSPECTION IP 7111402	Alert and Notification System Testing	1
1	07/11/2011 07/15/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	07/11/2011 07/15/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	07/11/2011 07/15/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	07/11/2011 07/15/2011	IP 71151-EP01	Drill/Exercise Performance	
1	07/11/2011 07/15/2011	IP 71151-EP02	ERO Drill Participation	
1	07/11/2011 07/15/2011	IP 71151-EP03	Alert & Notification System	
1	08/08/2011 08/12/2011	71124.08 - RAD MATERIAL AND TRANSPORTATION IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	1
1	10/17/2011 10/21/2011	711111B - PILGRIM REQUAL INSP W/ P/F RESULTS IP 711111B	Licensed Operator Requalification Program	2
1	09/12/2011 09/16/2011	7111121 - CDBI IP 7111121	Component Design Bases Inspection	7
1	09/26/2011 09/30/2011	IP 7111121	Component Design Bases Inspection	
1	10/03/2011 10/07/2011	IP 7111121	Component Design Bases Inspection	
1	09/26/2011 09/30/2011	71124.01 - RAD HAZARD ASSESS, ALARA IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
1	09/26/2011 09/30/2011	IP 71124.02	Occupational ALARA Planning and Controls	

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

Pilgrim

Inspection / Activity Plan

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1	09/26/2011	09/30/2011	71124.01 - RAD HAZARD ASSESS, ALARA		1
			IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	09/26/2011	09/30/2011	IP 71124.04	Occupational Dose Assessment	
1	09/26/2011	09/30/2011	IP 71124.05	Radiation Monitoring Instrumentation	
1	09/26/2011	09/30/2011	IP 71151-OR01	Occupational Exposure Control Effectiveness	
			71124.01 - RAD HAZARD ASSESS OUT, ALARA, AIR, DOSE		1
1	11/14/2011	11/18/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	11/14/2011	11/18/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1	11/14/2011	11/18/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/14/2011	11/18/2011	IP 71124.04	Occupational Dose Assessment	
			71124 - RADIATION SAFETY INSPECTION		1
1	01/23/2012	01/27/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1	01/23/2012	01/27/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	01/23/2012	01/27/2012	IP 71124.04	Occupational Dose Assessment	
			71124 - RADIATION SAFETY INSPECTION		1
1	04/09/2012	04/13/2012	IP 71124.05	Radiation Monitoring Instrumentation	
			71124 - RADIATION SAFETY INSPECTION		1
1	05/21/2012	05/25/2012	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	05/21/2012	05/25/2012	IP 71151-PR01	RETS/ODCM Radiological Effluent	

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