



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I**  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

March 4, 2013

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 05000293/2012001)**

Dear Mr. Smith:

On February 14, 2013, the U.S. 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 in addition to inspection results and enforcement actions from January 1, 2012 through December 31, 2012. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Pilgrim operated in a manner that preserved public health and safety and met all cornerstone objectives. Pilgrim was in the Regulatory Response Column of the NRC's Reactor Oversight Process Action Matrix until the most recent quarter, due to a white finding in the Initiating Events Cornerstone, related to a failure to implement conduct of operations and reactivity control standards and procedures during a reactor startup. This finding was closed in the fourth quarter 2012. The NRC determined the performance at Pilgrim during the most recent quarter was within the Licensee Response Column because all inspection findings had very low (i.e., green) safety significance, all performance indicators demonstrated that your performance was within the nominal, expected range (i.e., green), and a supplemental inspection was successfully completed for the white finding on December 13, 2012. Therefore, the NRC plans to conduct Reactor Oversight Process baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2014. 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. In addition to baseline inspections, the NRC will perform Inspection Procedure (IP) 92709, "Licensee Strike Contingency Plans," and Temporary Instruction (TI) 182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks." 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 changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

In accordance with Title 10 of the *Code of Federal Regulations* (CFR10) Part 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 the NRC's Agencywide Document Access and Management 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 Ronald R. Bellamy at (610)337-5200 with any questions you have regarding this letter.

Sincerely,

**/RA/**

Darrell J. Roberts, Director  
Division of Reactor Projects

Docket No.: 50-293  
License No.: DPR-35

Enclosure: Inspection Plan

cc w/encl: Distribution via ListServ

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OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME	TSetzer	RBellamy	DRoberts		
DATE	02/26/13	02/27/13	03/04/13		

## Pilgrim

## Inspection / Activity Plan

01/01/2013 - 06/30/2014

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1	01/01/2013	03/31/2013	<b>2515/187</b>	<b>- FLOODING WALKDOWNS</b>	2
			IP 2515/187	Inspection of Near-Term Task Force Recommendation 2.3 Flooding Walkdowns	
1	01/15/2013	03/31/2013	<b>2515/188</b>	<b>- SEISMIC WALKDOWNS</b>	2
			IP 2515/188	Inspection of Near-Term Task Force Recommendation 2.3 Seismic Walkdowns	
1	02/25/2013	03/01/2013	<b>71124.08</b>	<b>- RADWASTE</b>	1
			IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1	03/18/2013	03/22/2013	<b>71124</b>	<b>- RADIATION SAFETY INSPECTION</b>	1
			IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/18/2013	03/22/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/22/2013	04/26/2013	<b>711108G</b>	<b>- INSERVICE INSPECTION</b>	1
			IP 711108G	Inservice Inspection Activities - BWR	
1	05/13/2013	05/17/2013	<b>71124</b>	<b>- RADIATION SAFETY INSPECTION</b>	1
			IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/13/2013	05/17/2013	IP 71124.04	Occupational Dose Assessment	
1	07/08/2013	07/12/2013	<b>711107T</b>	<b>- TRIENNIAL HEAT SINK</b>	1
			IP 711107T	Heat Sink Performance	
1	10/07/2013	10/11/2013	<b>711111B</b>	<b>- PILGRIM REQUAL INSPN WITH P/F RESULTS</b>	2
			IP 711111B	Licensed Operator Requalification Program	
1	08/12/2013	08/16/2013	<b>71124</b>	<b>- RADIATION SAFETY INSPECTION</b>	1
			IP 71124.05	Radiation Monitoring Instrumentation	
1	08/12/2013	08/16/2013	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	08/26/2013	08/30/2013	<b>EP PROGR</b>	<b>- EP PROGRAM INSPECTION</b>	2
			IP 7111402	Alert and Notification System Testing	
1	08/26/2013	08/30/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	08/26/2013	08/30/2013	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	09/01/2013	12/31/2013	<b>60853</b>	<b>- ISFSI PAD CONSTRUCTION</b>	2
			IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
1	09/16/2013	09/20/2013	<b>PI&amp;R</b>	<b>- PI&amp;R</b>	4
			IP 71152B	Problem Identification and Resolution	
1	09/30/2013	10/04/2013	IP 71152B	Problem Identification and Resolution	
1	09/23/2013	09/27/2013	<b>TI 182</b>	<b>- DEGRAD UNDERGROUND PIPING - PHASE 2</b>	1
			IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

## Pilgrim

## Inspection / Activity Plan

01/01/2013 - 06/30/2014

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1	01/27/2014	01/31/2014	<b>12/9 EXM</b>	<b>- PILGRIM INITIAL EXAM</b>	3
			U01876	FY14-PILGRIM INITIAL OPERATOR LICENSING EXAM	
1	02/24/2014	02/28/2014	U01876	FY14-PILGRIM INITIAL OPERATOR LICENSING EXAM	
			<b>71124</b>	<b>- RADIATION SAFETY INSPECTION</b>	1
1	10/21/2013	10/25/2013	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
1	10/21/2013	10/25/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/21/2013	10/25/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1	10/21/2013	10/25/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/21/2013	10/25/2013	IP 71124.04	Occupational Dose Assessment	
1	10/21/2013	10/25/2013	IP 71151-OR01	Occupational Exposure Control Effectiveness	
			<b>711117</b>	<b>- PERMANENT PLANT MODIFICATIONS</b>	3
1	11/04/2013	11/08/2013	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1	11/18/2013	11/22/2013	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			<b>71124</b>	<b>- RADIATION SAFETY INSPECTION</b>	1
1	02/10/2014	02/14/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	02/10/2014	02/14/2014	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>CDBI</b>	<b>- CDBI</b>	7
1	03/17/2014	03/21/2014	IP 7111121	Component Design Bases Inspection	
1	03/31/2014	04/03/2014	IP 7111121	Component Design Bases Inspection	
1	04/14/2014	04/18/2014	IP 7111121	Component Design Bases Inspection	
			<b>EP EXER</b>	<b>- EP EXERCISE INSPECTION</b>	1
1	04/28/2014	05/02/2014	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
			<b>71124</b>	<b>- RADIATION SAFETY INSPECTION</b>	1
1	05/05/2014	05/09/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/05/2014	05/09/2014	IP 71124.04	Occupational Dose Assessment	