



**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

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

Distribution w/encl:

W. Dean, RA  
D. Lew, DRA  
D. Roberts, DRP  
M. Layton, DRP  
C. Miller, DRS  
J. Clifford, DRS  
R. Bellamy, DRP  
T. Setzer, DRP  
E. Keighley, DRP  
J. DeBoer, DRP  
M. Schneider, DRP, SRI  
B. Smith, DRP, RI

S. Campbell, DRP, AA  
J. Cassidy, RI OEDO  
DRS Branch Chiefs (6)  
D. Screnci, PAO  
N. Sheehan, PAO  
N. McNamara, SLO  
D. Tift, SLO  
RidsNrrPMPilgrim Resource  
RidsNrrDorILPL1-1 Resource  
ROPReports.Resource  
ROPassessment Resource  
RidsNrrDirslpabResource

DOCUMENT NAME: S:\ROP-13 EOC Review\Branch 5\Pilgrim\PG - 2012 AAL Licensee Response Column.docx  
ADAMS ACCESSION NUMBER: **ML13060A340**

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME	TSetzer	RBellamy	DRoberts		
DATE	02/26/13	02/27/13	03/04/13		

OFFICIAL RECORD COPY

## Pilgrim

## Inspection / Activity Plan

01/01/2013 - 06/30/2014

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

## Pilgrim

## Inspection / Activity Plan

01/01/2013 - 06/30/2014

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
-------------	----------------------------	---------------------	-------	-------------------------

12/9 EXM - PILGRIM INITIAL EXAM					3
1	01/27/2014	01/31/2014	U01876	FY14-PILGRIM INITIAL OPERATOR LICENSING EXAM	
1	02/24/2014	02/28/2014	U01876	FY14-PILGRIM INITIAL OPERATOR LICENSING EXAM	
71124 - RADIATION SAFETY INSPECTION					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	
711117 - PERMANENT PLANT MODIFICATIONS					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	
71124 - RADIATION SAFETY INSPECTION					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	
CDBI - CDBI					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	
EP EXER - EP EXERCISE INSPECTION					1
1	04/28/2014	05/02/2014	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
71124 - RADIATION SAFETY INSPECTION					
1	05/05/2014	05/09/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	1
1	05/05/2014	05/09/2014	IP 71124.04	Occupational Dose Assessment	