



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

September 3, 2013

Mr. John Dent, 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 (REPORT 05000293/2013006)**

Dear Mr. Dent:

On August 15, 2013, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of the Pilgrim Nuclear Power Station (Pilgrim). The NRC reviewed the most recent quarterly performance indicators in addition to inspection results and enforcement actions from July 1, 2012, through June 30, 2013. 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. The NRC determined the performance at Pilgrim 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 safety significance (Green), and all performance indicators demonstrated that your performance was within the nominal, expected range (Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2014. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to baseline inspections, the NRC will perform Temporary Instruction 2515/182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks," Inspection Procedure (IP) 60853, "Onsite Fabrication of Components and Construction of an Independent Spent Fuel Storage Installation," IP 60854.1 "Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants," IP 60855.1 "Operation of an Independent Spent Fuel Storage Installation at Operating Plants," and IP 60856.1, "Review of 10 CFR 72.212(b) Evaluations at Operating Plants." The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-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 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* (10 CFR) Section 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 me at (610) 337-5200 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Fred L. Bower III, Acting Chief  
Projects Branch 5  
Division of Reactor Projects

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

Enclosure: Pilgrim Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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**/RA/**

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Distribution w/encl: (via email)

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|------------------------|----------------------------|
| W. Dean, RA            | S. Campbell, DRP, AA       |
| D. Lew, DRA            | V. Campbell, RI OEDO       |
| D. Roberts, DRP        | RidsNrrPMPilgrim Resource  |
| M. Scott, DRP          | RidsNrrDorLLPL1-1 Resource |
| R. Lorson, DRS         | ROPReports.Resource        |
| J. Rogge, DRS          | DRS Branch Chiefs (6)      |
| F. Bower, DRP          | D. Screnci, PAO            |
| S. Shaffer, DRP        | N. Sheehan, PAO            |
| E. Keighley, DRP       | N. McNamara, SLO           |
| J. DeBoer, DRP         | D. Tiff, SLO               |
| M. Schneider, DRP, SRI | ROPAssessment Resource     |
| B. Smith, DRP, RI      | RidsNrrDirslpabResource    |

DOCUMENT NAME S:\ROP Assessment Meetings Archive\ROP-14 Mid-Cycle Review\Branch 5\Pilgrim\2013 MC Letter Pilgrim.docx  
 ADAMS ACCESSION NUMBER: **ML13242A210**

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OFFICE <i>klm</i>	RI/DRP	RI/DRP	RI/DRP		
NAME	MSchneider/SMS via email	SShaffer/SWS	FBower/FLB		
DATE	8/27/13	8/27/13	9/3/13		

**Millstone**  
**Inspection / Activity Plan**  
**07/01/2013 - 12/31/2014**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>EP - EP ANNUAL REPORT</b>		<b>5</b>
2,3	07/01/2013	12/31/2013	IP 7111406	Drill Evaluation	
			<b>7111107T - TRIENNIAL HEAT SINK</b>		<b>1</b>
2,3	07/15/2013	07/26/2013	IP 7111107T	Heat Sink Performance	
			<b>TRI FI - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>8</b>
2,3	07/22/2013	07/26/2013	IP 7111105T	Fire Protection [Triennial]	
2,3	08/05/2013	08/09/2013	IP 7111105T	Fire Protection [Triennial]	
			<b>10/21EXM - MILLSTONE 3 INITIAL EXAM</b>		<b>4</b>
3	11/12/2013	11/15/2013	U01874	FY14-MILLSTONE 3 INITIAL OPERATOR LICENSING EXAM	
3	12/02/2013	12/11/2013	U01874	FY14-MILLSTONE 3 INITIAL OPERATOR LICENSING EXAM	
			<b>71124 - RADIATION SAFETY INSPECTION - RETS</b>		<b>1</b>
2,3	07/29/2013	08/02/2013	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
2,3	07/29/2013	08/02/2013	IP 71151	Performance Indicator Verification	
			<b>71124 - RAD SAFETY INSP - INSTRUMENTS</b>		<b>1</b>
2,3	08/05/2013	08/09/2013	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>7111111B - MILLSTONE 3 REQUAL INSP WITH P/F RESULTS</b>		<b>2</b>
3	10/21/2013	10/25/2013	IP 7111111B	Licensed Operator Requalification Program	
			<b>71124 - ALARA, IN-PLANT AIRBORNE AND DOSE ASSESS</b>		<b>1</b>
2,3	09/30/2013	10/04/2013	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	09/30/2013	10/04/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2,3	09/30/2013	10/04/2013	IP 71124.04	Occupational Dose Assessment	
			<b>ISFSI - ISFSI PAD EXPANSION</b>		<b>3</b>
2,3	11/04/2013	11/08/2013	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
			<b>EP PROGR - EP PROGRAM INSPECTION</b>		<b>1</b>
2,3	12/02/2013	12/06/2013	IP 7111402	Alert and Notification System Testing	
2,3	12/02/2013	12/06/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
2	12/02/2013	12/06/2013	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			<b>71124 - RAD HAZARD, IN-PLANT AIRBORNE, DOSE ASSE</b>		<b>1</b>
2,3	12/16/2013	12/20/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	12/16/2013	12/20/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2,3	12/16/2013	12/20/2013	IP 71124.04	Occupational Dose Assessment	
2,3	12/16/2013	12/20/2013	IP 71151	Performance Indicator Verification	

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

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**Inspection / Activity Plan**  
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			<b>EP - EP ANNUAL REPORT</b>		<b>4</b>
2, 3	07/01/2014	12/31/2014	IP 7111406	Drill Evaluation	
			<b>TI-182 - DEGRAD UNDERGROUND PIPING - PHASE 2</b>		<b>1</b>
2, 3	01/13/2014	01/17/2014	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
			<b>7111108P - U2 INSERVICE INSPECTION</b>		<b>1</b>
2	04/07/2014	04/18/2014	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>71003 - U2 LR COMMITMENTS PHASE 1 INSP</b>		<b>2</b>
2	04/07/2014	04/12/2014	IP 71003	Post-Approval Site Inspection for License Renewal	
			<b>71124 - RADIATION SAFETY</b>		<b>1</b>
2, 3	04/21/2014	04/25/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	04/21/2014	04/25/2014	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	04/21/2014	04/25/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	04/21/2014	04/25/2014	IP 71124.04	Occupational Dose Assessment	
2, 3	04/21/2014	04/25/2014	IP 71151	Performance Indicator Verification	
			<b>9/29EXAM - MILLSTONE 2 INITIAL EXAM</b>		<b>4</b>
2	09/01/2014	09/05/2014	U01891	FY14-MILLSTONE 2 INITIAL OPERATOR LICENSING EXAM	
2	09/29/2014	10/03/2014	U01891	FY14-MILLSTONE 2 INITIAL OPERATOR LICENSING EXAM	
			<b>71124 - RADIATION SAFETY RETS</b>		<b>1</b>
2, 3	07/07/2014	07/11/2014	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
2, 3	07/07/2014	07/11/2014	IP 71151	Performance Indicator Verification	
			<b>71124 - RADIATION SAFETY RAD INSTS</b>		<b>1</b>
2, 3	07/14/2014	07/18/2014	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>7111111B - U2 REQUAL INSPECTION WITH P/F RESULTS</b>		<b>2</b>
2	09/15/2014	09/19/2014	IP 7111111B	Licensed Operator Requalification Program	
			<b>71152B - PI&amp;R BIENNIAL</b>		<b>1</b>
2, 3	07/14/2014	07/19/2014	IP 71152B	Problem Identification and Resolution	
2, 3	07/28/2014	08/02/2014	IP 71152B	Problem Identification and Resolution	
			<b>EP EXER - EP EXERCISE INSPECTION</b>		<b>1</b>
2, 3	09/08/2014	09/12/2014	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
			<b>7111108P - U3 INSERVICE INSPECTION</b>		<b>1</b>
3	10/20/2014	10/31/2014	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>71124 - RADIATION SAFETY</b>		<b>1</b>
2, 3	11/17/2014	11/21/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	

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	Start	End			
			<b>71124 - RADIATION SAFETY</b>		<b>1</b>
2, 3	11/17/2014	11/21/2014	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	11/17/2014	11/21/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	11/17/2014	11/21/2014	IP 71124.04	Occupational Dose Assessment	
			<b>71124.08 - RADWASTE</b>		<b>1</b>
2, 3	12/01/2014	12/05/2014	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

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