



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

September 1, 2010

Mr. Kevin Bronson  
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

Dear Mr. Bronson:

On August 12, 2010, the Nuclear Regulatory Commission (NRC) staff completed its performance review of the Pilgrim Nuclear Power Station. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2009 through June 30, 2010. 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 Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at Pilgrim 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 enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2011. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival 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 end-of-cycle review.

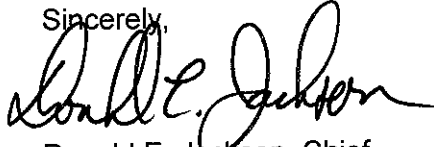
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K. Bronson

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If circumstances arise which cause us to change the 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,

A handwritten signature in black ink, appearing to read "Donald E. Jackson". The signature is fluid and cursive, with the first name being the most prominent.

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

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

Enclosure: Pilgrim Inspection/Activity Plan

cc w/encl: Distribution via ListServ

If circumstances arise which cause us to change the 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/

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

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SUNSI Review Complete: TCS (Reviewer's Initials)

ML102440593

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NAME	TSetzer/ TCS	DJackson/ DEJ
DATE	08/ 25 /10	08/ 30 /10

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**Pilgrim**  
**Inspection / Activity Plan**  
 07/01/2010 - 12/31/2011

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			<b>71152 - PI&amp;R SAMPLE - PILGRIM B.5.B SAMPLE</b>		<b>1</b>
1	07/26/2010	07/27/2010	IP 71152	Identification and Resolution of Problems	
			<b>2515/173 - INDUSTRY GROUND WATER INITIATIVE</b>		<b>1</b>
1	07/12/2010	07/16/2010	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
			<b>71124.06 - PUB RAD SAFETY - EFFLUENTS</b>		<b>1</b>
1	07/12/2010	07/16/2010	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	07/12/2010	07/16/2010	IP 71151	Performance Indicator Verification	
			<b>01/24EXM - OPERATOR LICENSING INITIAL EXAMS</b>		<b>4</b>
1	12/13/2010	12/17/2010	U01833	FY11 - PILGRIM, INITIAL OL EXAM	
1	01/24/2011	02/04/2011	U01833	FY11 - PILGRIM, INITIAL OL EXAM	
			<b>MODS - PERMANENT PLANT MODIFICATIONS</b>		<b>3</b>
1	09/13/2010	09/17/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1	09/27/2010	10/01/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			<b>71124 - RAD SAFETY - RAD HAZZARD ASSES/ALARA</b>		<b>1</b>
1	10/18/2010	10/22/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/18/2010	10/22/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1	10/18/2010	10/22/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/18/2010	10/22/2010	IP 71151	Performance Indicator Verification	
			<b>EP EX - EP EXERCISE EVALUATION</b>		<b>4</b>
1	11/15/2010	11/19/2010	IP 7111401	Exercise Evaluation	
1	11/15/2010	11/19/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	11/15/2010	11/19/2010	IP 71151-EP01	Drill/Exercise Performance	
1	11/15/2010	11/19/2010	IP 71151-EP02	ERO Drill Participation	
1	11/15/2010	11/19/2010	IP 71151-EP03	Alert & Notification System	
			<b>71152B - PI&amp;R</b>		<b>4</b>
1	02/14/2011	02/18/2011	IP 71152B	Identification and Resolution of Problems	
1	02/28/2011	03/04/2011	IP 71152B	Identification and Resolution of Problems	
			<b>71124.01 - RAD HAZARD ASSESS OUT, ALARA, AIR, DOSE</b>		<b>1</b>
1	02/14/2011	02/18/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	02/14/2011	02/18/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1	02/14/2011	02/18/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	02/14/2011	02/18/2011	IP 71124.04	Occupational Dose Assessment	
			<b>71124.01 - RAD HAZARD ASSESS OUT, ALARA,AIR, DOSE</b>		<b>1</b>
1	04/25/2011	04/29/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/25/2011	04/29/2011	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**  
 07/01/2010 - 12/31/2011

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			<b>71124.01 - RAD HAZARD ASSESS OUT, ALARA,AIR, DOSE</b>		<b>1</b>
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	
			<b>7111108G - INSERVICE INSPECTION</b>		<b>1</b>
1	05/02/2011	05/06/2011	IP 7111108G	Inservice Inspection Activities - BWR	
			<b>71124.07 - REMP</b>		<b>1</b>
1	06/13/2011	06/17/2011	IP 71124.07	Radiological Environmental Monitoring Program	
1	06/13/2011	06/17/2011	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			<b>EP PROGR - EP PROGRAM INSPECTION</b>		<b>1</b>
1	07/11/2011	07/15/2011	IP 7111402	Alert and Notification System Testing	
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	
			<b>71124.08 - RAD MATERIAL AND TRANSPORTATION</b>		<b>1</b>
1	08/08/2011	08/12/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>711111B - PILGRIM REQUAL INSP W/ P/F RESULTS</b>		<b>3</b>
1	10/17/2011	10/21/2011	IP 711111B	Licensed Operator Requalification Program	
			<b>7111121 - CDBI</b>		<b>6</b>
1	09/12/2011	09/16/2011	IP 7111121	Component Design Bases Inspection	
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	
			<b>71124.01 - RAD HAZARD ASSESS, ALARA</b>		<b>1</b>
1	09/26/2011	09/30/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	09/26/2011	09/30/2011	IP 71124.02	Occupational ALARA Planning and Controls	
1	09/26/2011	09/30/2011	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	

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