



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

March 3, 2010

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

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

Dear Mr. Bronson:

On February 9, 2009, the NRC staff completed its performance review of the Pilgrim Nuclear Power Station (Pilgrim). Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2009. 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 Related Information" will include the security cornerstone review and resultant inspection plan.

Overall, Pilgrim operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, 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 June 30, 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 mid-cycle review.

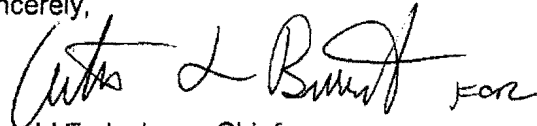
K. Bronson

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If circumstances arise which cause us to change this 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 dark ink, appearing to read "Donald E. Jackson", followed by the word "for" in a cursive script.

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

K. Bronson

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Sincerely,

/RA/

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

Docket Nos. 50-293
License Nos. DPR-35

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OFFICE	RI/DRP	RI/DRP	RI/DRP
NAME	T Setzer/TS	D Jackson/ALB for	ABurritt/ALB
DATE	03/2/10	03/2/10	3/2/10

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Pilgrim
Inspection / Activity Plan
01/01/2010 - 06/30/2011

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		7112405 - RAD MONITORING INSTRUMENTS		1
1	02/08/2010 02/12/2010	IP 71124.05	Radiation Monitoring Instrumentation	
		7111107T - TRIENNIAL HEAT SINK		1
1	04/19/2010 04/23/2010	IP 7111107T	Heat Sink Performance	
		71124 - RADIATION SAFETY		1
1	05/17/2010 05/21/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	05/17/2010 05/21/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1	05/17/2010 05/21/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/17/2010 05/21/2010	IP 71124.05	Radiation Monitoring Instrumentation	
		TI-177 - MANAGING GAS ACCUMULATION IN ECCS		2
1	06/21/2010 06/25/2010	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
		2515/173 - INDUSTRY GROUND WATER INITIATIVE		1
1	07/12/2010 07/16/2010	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
		71124.06 - PUB RAD SAFETY - EFFLUENTS		1
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	
		MODS - PERMANENT PLANT MODIFICATIONS		3
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	
		71124 - RAD SAFETY - RAD HAZZARD ASSES/ALARA		1
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	
		EP EX - EP EXERCISE EVALUATION		4
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	
		71152B - PI&R		4
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	
		71124.01 - RAD HAZARD ASSESS OUT, ALARA, AIR, DOSE		1
1	02/14/2011 02/18/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	

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

Pilgrim
Inspection / Activity Plan
01/01/2010 - 06/30/2011

Unit Number	Planned Dates Start End		Inspection Activity	Title	No. of Staff on Site
			71124.01 - RAD HAZARD ASSESS OUT, ALARA, AIR, DOSE		1
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	
			71124.01 - RAD HAZARD ASSESS OUT, ALARA, AIR, DOSE		1
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	
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	
			711108G - INSERVICE INSPECTION		1
1	05/02/2011	05/06/2011	IP 711108G	Inservice Inspection Activities - BWR	
			71124.07 - REMP		1
1	06/13/2011	06/17/2011	IP 71124.07	Public Radiation Safety	
1	06/13/2011	06/17/2011	IP 71151-PR01	RETS/ODCM Radiological Effluent	

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