



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.

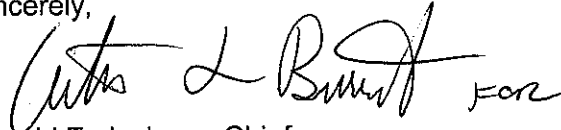
K. Bronson

2

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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 black ink, appearing to read "Donald E. Jackson" with a stylized flourish at the end.

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	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1	02/08/2010	02/12/2010	7112405 - RAD MONITORING INSTRUMENTS IP 71124.05	Radiation Monitoring Instrumentation	1
1	04/19/2010	04/23/2010	711107T - TRIENNIAL HEAT SINK IP 7111107T	Heat Sink Performance	1
1	05/17/2010	05/21/2010	71124 - RADIATION SAFETY IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
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	
1	06/21/2010	06/25/2010	TI-177 - MANAGING GAS ACCUMULATION IN ECCS IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	2
1	07/12/2010	07/16/2010	2515/173 - INDUSTRY GROUND WATER INITIATIVE IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	1
1	07/12/2010	07/16/2010	71124.06 - PUB RAD SAFETY - EFFLUENTS IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	1
1	07/12/2010	07/16/2010	IP 71151	Performance Indicator Verification	
1	09/13/2010	09/17/2010	MODS - PERMANENT PLANT MODIFICATIONS IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	3
1	09/27/2010	10/01/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1	10/18/2010	10/22/2010	71124 - RAD SAFETY - RAD HAZARD ASSES/ALARA IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
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	
1	11/15/2010	11/19/2010	EP EX - EP EXERCISE EVALUATION IP 7111401	Exercise Evaluation	4
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	
1	02/14/2011	02/18/2011	71152B - PI&R IP 71152B	Identification and Resolution of Problems	4
1	02/28/2011	03/04/2011	IP 71152B	Identification and Resolution of Problems	
1	02/14/2011	02/18/2011	71124.01 - RAD HAZARD ASSES OUT, ALARA, AIR, DOSE IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1

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
1	02/14/2011 02/18/2011	71124.01 - RAD HAZARD ASSESS OUT, ALARA, AIR, DOSE	Occupational ALARA Planning and Controls	1
1	02/14/2011 02/18/2011	IP 71124.02	In-Plant Airborne Radioactivity Control and Mitigation	
1	02/14/2011 02/18/2011	IP 71124.03	Occupational Dose Assessment	
1	02/14/2011 02/18/2011	IP 71124.04		
1	04/25/2011 04/29/2011	71124.01 - RAD HAZARD ASSESS OUT, ALARA,AIR, DOSE	Radiological Hazard Assessment and Exposure Controls	1
1	04/25/2011 04/29/2011	IP 71124.01	Occupational ALARA Planning and Controls	
1	04/25/2011 04/29/2011	IP 71124.02	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/25/2011 04/29/2011	IP 71124.03	Occupational Dose Assessment	
1	04/25/2011 04/29/2011	IP 71124.04	Radiation Monitoring Instrumentation	
1	04/25/2011 04/29/2011	IP 71124.05		
1	05/02/2011 05/06/2011	711108G - INSERVICE INSPECTION	Inservice Inspection Activities - BWR	1
1	05/02/2011 05/06/2011	IP 711108G		
1	06/13/2011 06/17/2011	71124.07 - REMP	Public Radiation Safety	1
1	06/13/2011 06/17/2011	IP 71124.07	RETS/ODCM Radiological Effluent	
1	06/13/2011 06/17/2011	IP 71151-PR01		

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