



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

August 31, 2006

Mr. Michael A. Balduzzi
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. Balduzzi:

On August 7, 2006, the NRC staff completed its performance review of Pilgrim Nuclear Power Station for the first half of the calendar year 2006 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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 physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in accordance with 10 CFR 2.390" will include the physical protection 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 currently plan to conduct reactor oversight process (ROP) baseline inspections at your facility. We also plan to conduct a license renewal aging management inspection.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2008. 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.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's

document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

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 610-337-6967 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Raymond J. Powell, Chief
Projects Branch 5
Division of Reactor Projects

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

Enclosure: Pilgrim Inspection/ Activity Plan

cc w/encl:

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C. Schwarz, Vice-President, Operations Support
S. J. Bethay, Director, Nuclear Safety Assurance
O. Limpas, Vice President, Engineering
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M. J. Colomb, Director of Oversight, Entergy Nuclear Operations, Inc.
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R. Walker, Radiation Control Program, Dept. of Public Health, Commonwealth of Massachusetts
The Honorable Therese Murray
The Honorable Vincent deMacedo
Chairman, Plymouth Board of Selectmen
Chairman, Duxbury Board of Selectmen
Chairman, Nuclear Matters Committee
Plymouth Civil Defense Director
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Office of the Attorney General, Commonwealth of Massachusetts
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J. Snizek, PWR SRC Consultant
M. Lyster, PWR SRC Consultant
C. McCombs, Director, MEMA and Commonwealth of Massachusetts, SLO Designee
Commonwealth of Massachusetts, Secretary of Public Safety

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Sincerely,

/RA/

Raymond J. Powell, Chief
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License Nos. DPR-35

Enclosure: Pilgrim Inspection/ Activity Plan

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SUNSI Review Complete: RJP (Reviewer's Initials)

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OFFICE	RI/DRP		RI/DRP		RI/DRP	
NAME	NSieller		TWalker		RPowell	
DATE	08/24/06		08/25/06		08/30/06	

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Pilgrim
Inspection / Activity Plan
07/01/2006 - 03/31/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	LIC RE	- LICENSE RENEWAL -AGING MANAGEMENT	6			
1	IP 71002	License Renewal Inspection		09/18/2006	09/22/2006	License Renewal Ins
1	IP 71002	License Renewal Inspection		10/02/2006	10/06/2006	License Renewal Ins
	TRI FIRE	- TRIENNIAL FIRE PROTECTION INSPECTION	3			
1	IP 7111105T	Fire Protection [Triennial]		07/24/2006	07/28/2006	Baseline Inspections
1	IP 7111105T	Fire Protection [Triennial]		08/07/2006	08/11/2006	Baseline Inspections
	71121	- OCC RAD SAFETY	2			
1	IP 7112101	Access Control to Radiologically Significant Areas		08/14/2006	08/18/2006	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		08/14/2006	08/18/2006	Baseline Inspections
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		08/14/2006	08/18/2006	Baseline Inspections
1	IP 71151	Performance Indicator Verification		08/14/2006	08/18/2006	Baseline Inspections
	7112202	- PUB RAD SAFETY - RADWASTE	2			
1	IP 7112202	Radioactive Material Processing and Transportation		09/25/2006	09/29/2006	Baseline Inspections
1	IP 71151	Performance Indicator Verification		09/25/2006	09/29/2006	Baseline Inspections
	TI-169	- MSPI VERIFICATION	2			
1	IP 2515/169	Mitigating Systems Performance Index Verification		10/16/2006	10/27/2006	Safety Issues
	7111401	- EXERCISE EVALUATION & EP PI VERIFICATION	5			
1	IP 7111401	Exercise Evaluation		10/23/2006	10/27/2006	Baseline Inspections
1	IP 71151	Performance Indicator Verification		10/23/2006	10/27/2006	Baseline Inspections
	71121	- OCC RAD SAFETY	1			
1	IP 7112101	Access Control to Radiologically Significant Areas		12/11/2006	12/15/2006	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		12/11/2006	12/15/2006	Baseline Inspections
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		12/11/2006	12/15/2006	Baseline Inspections
1	IP 71151	Performance Indicator Verification		12/11/2006	12/15/2006	Baseline Inspections
	2/26 EXM	- OPERATOR LICENSING INITIAL EXAMS	3			
1	U01637	PILGRIM INITIAL EXAM (FY07)		01/29/2007	02/02/2007	Not Applicable
1	U01637	PILGRIM INITIAL EXAM (FY07)		02/26/2007	03/01/2007	Not Applicable
	71121	- OCC RAD PROT	1			
1	IP 7112101	Access Control to Radiologically Significant Areas		02/05/2007	02/09/2007	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		02/05/2007	02/09/2007	Baseline Inspections
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		02/05/2007	02/09/2007	Baseline Inspections
1	IP 71151	Performance Indicator Verification		02/05/2007	02/09/2007	Baseline Inspections
	7111108G	- IN-SERVICE INSPECTION	1			
1	IP 7111108G	Inservice Inspection Activities - BWR		04/16/2007	04/20/2007	Baseline Inspections

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

Pilgrim
Inspection / Activity Plan
07/01/2006 - 03/31/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	71121 - OCC RAD SAFETY		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		04/23/2007	04/27/2007	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		04/23/2007	04/27/2007	Baseline Inspections
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		04/23/2007	04/27/2007	Baseline Inspections
1	IP 71151	Performance Indicator Verification		04/23/2007	04/27/2007	Baseline Inspections
	71152B - PI&R		4			
1	IP 71152B	Identification and Resolution of Problems		06/04/2007	06/08/2007	Baseline Inspections
1	IP 71152B	Identification and Resolution of Problems		06/18/2007	06/22/2007	Baseline Inspections
	7111111B - L.O. REQUAL. PROG. + P/F REVIEW		3			
1	IP 7111111B	Licensed Operator Requalification Program		09/10/2007	09/14/2007	Baseline Inspections
1	IP 7111111B	Licensed Operator Requalification Program		09/18/2007	09/21/2007	Baseline Inspections
	71114 - EP PRGM INSP		1			
1	IP 7111402	Alert and Notification System Testing		07/15/2007	07/20/2007	Baseline Inspections
1	IP 7111403	Emergency Response Organization Augmentation Testing		07/15/2007	07/20/2007	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		07/15/2007	07/20/2007	Baseline Inspections
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		07/15/2007	07/20/2007	Baseline Inspections
1	IP 71151-EP01	Drill/Exercise Performance		07/15/2007	07/20/2007	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		07/15/2007	07/20/2007	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		07/15/2007	07/20/2007	Baseline Inspections
	71111.12 - MAINTENANCE RULE		2			
1	IP 7111112B	Maintenance Effectiveness		07/16/2007	07/20/2007	Baseline Inspections
	MODS - MODS AND 50.59		4			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		08/20/2007	08/24/2007	Baseline Inspections
1	IP 7111117B	Permanent Plant Modifications		08/20/2007	08/24/2007	Baseline Inspections
	7112203 - PUB RAD SAFETY - REMP		1			
1	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Pr		09/10/2007	09/14/2007	Baseline Inspections
1	IP 71151	Performance Indicator Verification		09/10/2007	09/14/2007	Baseline Inspections
	71121 - OCC RAD SAFETY		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		10/22/2007	10/26/2007	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		10/22/2007	10/26/2007	Baseline Inspections
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		10/22/2007	10/26/2007	Baseline Inspections
1	IP 71151	Performance Indicator Verification		10/22/2007	10/26/2007	Baseline Inspections
	71121 - OCC RAD SAFETY		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		01/14/2008	01/18/2008	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		01/14/2008	01/18/2008	Baseline Inspections

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				Start	End	
	71121 - OCC RAD SAFETY		1			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		01/14/2008	01/18/2008	Baseline Inspections
1	IP 71151	Performance Indicator Verification		01/14/2008	01/18/2008	Baseline Inspections
	7111107B - HEAT SINK		1			
1	IP 7111107B	Heat Sink Performance		02/25/2008	02/29/2008	Baseline Inspections