August 26, 2003

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

Dear Mr. Balduzzi:

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - PILGRIM NUCLEAR POWER STATION

On July 30, 2003, the NRC staff completed its mid-cycle plant performance review of Pilgrim Nuclear Power Station. The mid-cycle reviews for Pilgrim involved the participation of all technical divisions in evaluating performance for the first half of the calendar year 2003 assessment cycle. The process included a review of 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 and our plans for future inspections at your facility so that you will have an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities.

Plant performance for the most recent quarter 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 only baseline inspections at your facility through September 30, 2004.

The enclosed inspection plan details the inspections scheduled through September 30, 2004. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last six months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

In accordance with 10 CFR 2.790 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).
Mr. Michael Balduzzi

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) 337-5227 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Clifford Anderson, Chief
Projects Branch 5
Division of Reactor Projects

Docket No. 50-293
Licensee No. DPR-35

Enclosure: Pilgrim Nuclear Power Station Inspection/Activity Plan
cc w/encl:  G. Taylor, Chief Executive Officer
M. Kansler, President, Entergy Nuclear Operations, Inc.
J. Herron, Senior Vice President and Chief Operating Officer
W. Riggs, Director, Nuclear Assessment Group
D. Pace, Vice President, Engineering
R. Edington, Vice President, Operations Support
J. Kelly, Director, Nuclear Safety Assurance
C. Faison, Manager, Licensing
Director of Oversight, Entergy Nuclear Operations, Inc.
D. Tarantino, Nuclear Information Manager
B. S. Ford, Manager, Licensing
S. Brennion, Superintendent Regulatory and Industry Affairs
J. Fulton, Assistant General Counsel
S. Lousteau, Treasury Department
R. Walker, Department 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
D. O’Connor, Massachusetts Secretary of Energy Resources
J. Miller, Senior Issues Manager
Office of the Commissioner, Massachusetts Department of
   Environmental Protection
Office of the Attorney General, Commonwealth of Massachusetts
Chairman, Citizens Urging Responsible Energy
S. McGrail, Director, Commonwealth of Massachusetts, SLO Designee
Electric Power Division
Commonwealth of Massachusetts, Secretary of Public Safety
R. Shadis, New England Coalition Staff
Institute of Nuclear Power Operations
Distribution w/encl: H. Miller, RA/J. Wiggins, DRA (Inspection Reports)
A. Blough, DRP
W. Lanning, DRS
B. Holian, DRP
K. McConnell, DRP
R. Crlenjak, DRS
J. Jolicoeur, RI EDO Coordinator
C. Anderson, DRP
F. Arner, DRP
J. Bobiak, DRP
J. Clifford, NRR
T. Tate, PM, NRR
R. Pulsifer, Backup PM, NRR
W. Raymond, SRI - Pilgrim
D. Screnci, PAO
N. Sheehan, PAO
H. Gray, DRS
J. Furia, DRS
P. Frechette, DRS
D. Silk, DRS
DRS Branch Chiefs (5)
RidsNrrDipmlipb
Region I Docket Room (with concurrences)

<table>
<thead>
<tr>
<th>OFFICE</th>
<th>RI / DRP</th>
<th>RI / DRP</th>
<th>/</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAME</td>
<td>FArner / FJ A</td>
<td>CAnnder son/ CA</td>
<td></td>
</tr>
<tr>
<td>DATE</td>
<td>08/ 26/ 03</td>
<td>08/ 26/ 03</td>
<td>08/ / 03</td>
</tr>
<tr>
<td>Unit Number</td>
<td>Inspection Activity</td>
<td>Title</td>
<td>No. of Staff on Site</td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------</td>
<td>----------------------------------------------------------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>71110ST</td>
<td>- FIRE PROTECTION</td>
<td>Fire Protection</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fire Protection</td>
<td></td>
</tr>
<tr>
<td>71151</td>
<td>- EP PI VERIFICATION</td>
<td>Performance Indicator Verification</td>
<td>1</td>
</tr>
<tr>
<td>9/29 EXM</td>
<td>- OPERATOR LICENSING INITIAL EXAMS</td>
<td>PILGRIM INITIAL EXAM (8/4/03)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PILGRIM INITIAL EXAM (8/4/03)</td>
<td></td>
</tr>
<tr>
<td>7111111B</td>
<td>- L.O.REQUALIFICATION PROGRAM</td>
<td>Licensed Operator Requalification</td>
<td>2</td>
</tr>
<tr>
<td>7111112B</td>
<td>- MAINTENANCE RULE</td>
<td>Maintenance Effectiveness</td>
<td>1</td>
</tr>
<tr>
<td>71121</td>
<td>- OCC RAD SAFETY</td>
<td>Access Control to Radiologically Significant Areas</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALARA Planning and Controls</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Radiation Monitoring Instrumentation and Protective Equipment</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Performance Indicator Verification</td>
<td></td>
</tr>
<tr>
<td>7112203</td>
<td>- PUB RAD SAFETY - REMP</td>
<td>Radiological Environmental Monitoring Program</td>
<td>1</td>
</tr>
<tr>
<td>7111107B</td>
<td>- HEAT SINK</td>
<td>Heat Sink Performance</td>
<td>1</td>
</tr>
<tr>
<td>71121</td>
<td>- OCC RAD SAFETY</td>
<td>Access Control to Radiologically Significant Areas</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALARA Planning and Controls</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Radiation Monitoring Instrumentation and Protective Equipment</td>
<td></td>
</tr>
<tr>
<td>7111401</td>
<td>- EXERCISE EVALUATION &amp; EP PI VERIFICATION</td>
<td>Exercise Evaluation</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Performance Indicator Verification</td>
<td></td>
</tr>
<tr>
<td>71121</td>
<td>- OCC RAD SAFETY</td>
<td>Access Control to Radiologically Significant Areas</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALARA Planning and Controls</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Radiation Monitoring Instrumentation and Protective Equipment</td>
<td></td>
</tr>
</tbody>
</table>

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.
<table>
<thead>
<tr>
<th>Unit Number</th>
<th>Inspection Activity</th>
<th>Title</th>
<th>No. of Staff on Site</th>
<th>Planned Dates Start</th>
<th>Planned Dates End</th>
<th>Inspection Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>7112201</td>
<td>PUB RAD SAFETY - RETS</td>
<td>Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems</td>
<td>1</td>
<td>08/02/2004</td>
<td>08/06/2004</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td>71121</td>
<td>OCC RAD SAFETY</td>
<td>Access Control to Radiologically Significant Areas</td>
<td>1</td>
<td>09/20/2004</td>
<td>09/24/2004</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALARA Planning and Controls</td>
<td></td>
<td>09/20/2004</td>
<td>09/24/2004</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Radiation Monitoring Instrumentation and Protective Equipment</td>
<td></td>
<td>09/20/2004</td>
<td>09/24/2004</td>
<td>Baseline Inspections</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Performance Indicator Verification</td>
<td></td>
<td>09/20/2004</td>
<td>09/24/2004</td>
<td>Baseline Inspections</td>
</tr>
</tbody>
</table>

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