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USNRC

April 15, 2008 (10:00am)

OFFICE OF SECRETARY  
RULING MAKINGS AND  
ADJUDICATIONS STAFF

U.S. NUCLEAR REGULATORY COMMISSION

In the Matter of Entergy (Pilgrim Nuclear Power Station)

Docket No. 50-293-LR Official Exhibit No. 57

OFFERED by: Applicant/Licensee \_\_\_\_\_ Intervenor \_\_\_\_\_

NRC Staff

Other NRC Staff Exh. 19

IDENTIFIED on 4-10-08 Witness/Panel \_\_\_\_\_

Action Taken: ADMITTED REJECTED WITHDRAWN

Reporter/Clerk Thibault

May 12, 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: PILGRIM NUCLEAR POWER STATION - NRC INTEGRATED INSPECTION  
REPORT 05000293/2006002

Dear Mr. Balduzzi:

On March 31, 2006, the US Nuclear Regulatory Commission (NRC) completed an inspection at your Pilgrim reactor facility. The enclosed integrated inspection report documents the inspection findings, which were discussed on April 6, 2006, with Mr. Dietrich and members of your staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

This report documents one finding of very low safety significance (Green), which involved a violation of NRC requirements. However, because of the very low safety significance and because the issue has been entered into your corrective action program, the NRC is treating the issue as a non-cited violation (NCV), in accordance with Section VI.A.1 of the NRC's Enforcement Policy. Additionally, a licensee-identified violation that was determined to be of very low safety significance is listed in Section 40A7 of this report. If you contest any NCV in this report, you should provide a response with the basis for your denial, within 30 days of the date of this inspection report, to the U.S. Nuclear Regulatory Commission, ATTN.: Document Control Desk, Washington, D.C. 20555-0001; with copies to the Regional Administrator, Region I; the Director, Office of Enforcement, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555-0001; and the NRC Resident Inspector at Pilgrim.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be available electronically for public inspection in the NRC Public Document

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Room or from the Publicly Available Records (PARS) component of the 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).

Sincerely,

**/RA by Tracy Walker for Clifford Anderson/**

Clifford Anderson, Chief  
Projects Branch 5  
Division of Reactor Projects

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

Enclosure: Inspection Report 50-293/06-02  
w/Attachment: Supplemental Information

cc w/encl: G. J. Taylor, Chief Executive Officer, Entergy Operations  
M. Kansler, President, Entergy Nuclear Operations, Inc.  
J. T. Herrogn, Senior Vice President and Chief Operating Officer,  
C. Schwarz, Vice-President, Operations Support  
S. J. Bethay, Director, Nuclear Safety Assessment  
O. Limpas, Vice President, Engineering  
J. F. McCann, Director, Licensing  
C. D. Faison, Manager, Licensing  
M. J. Colomb, Director of Oversight, Entergy Nuclear Operations, Inc.  
B. S. Ford, Manager, Licensing, Entergy Nuclear Operations, Inc.  
T. C. McCullough, Assistant General Counsel  
S. Lousteau, Treasury Department, Entergy Services, Inc.  
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  
Electric Power Division, Commonwealth of Massachusetts  
R. Shadis, New England Coalition Staff  
D. Katz, Citizens Awareness Network  
Chairman, Citizens Urging Responsible Energy  
J. Sniezek, PWR SRC Consultant  
M. Lyster, PWR SRC Consultant

1R07 Heat Sink Performance (IP 71111.07B)

a. Inspection Scope (4 samples)

Based on a plant specific risk assessment, past inspection results, and recent operational experience, the inspectors selected a sample of four safety-related heat exchangers (HXs) for review: the B Reactor Building Closed Cooling Water (RBCCW) HX, the B Residual Heat Removal (RHR) room cooler, the High Pressure Coolant Injection (HPCI) room cooler, and the Reactor Core Isolation Cooling (RCIC) room cooler. The Salt Service Water (SSW) system, which provides cooling to the RBCCW HXs, was also reviewed, as was the RBCCW system, which provides cooling to the safety-related room cooler heat exchangers.

Enclosure

The inspector reviewed performance tests, periodic cleaning, eddy current inspections, chemical control methods, tube leak monitoring, the extent of tube plugging, potential water hammer analysis, operating procedures, maintenance practices. The inspector also confirmed that controls for the selected components conformed to Entergy's commitments to Generic Letter 89-13, "Service Water System Problems Affecting Safety-Related Equipment." The inspector compared the inspection results to the established acceptance criteria to verify that the results were acceptable and that the HXs operated in accordance with design. The inspector walked down the systems, structures, and components, and monitored a performance test of the B RBCCW HX. The inspectors reviewed system health reports and interviewed applicable system engineers.

The inspector confirmed that potential common cause heat sink performance problems that had the potential to increase risk were identified and corrected by Entergy. The inspector closely examined potential macro fouling (silt, debris, etc.) and biotic fouling issues. The inspector walked down the Salt Service Water intake, chlorination system, and other support and sub components of the Salt Service Water system to assess the material condition of these systems and components.

The inspector reviewed a sample of condition reports (CRs) related to the RBCCW HXs, the safety-related room coolers, and the SSW system to ensure that Entergy was appropriately identifying, characterizing, and correcting problems related to these systems and components. The documents that were reviewed are listed in the attachment to the report.

b. Findings

No findings of significance were identified.

1R11 Licensed Operator Requalification (71111.11)

.1 Licensed Operator Simulator Training

a. Inspection Scope (1 sample)

The inspector observed an evaluated licensed operator simulator training exercise on January 23, 2006. The training was performed using scenarios SES-148 and involved both operational transients and design basis events. The inspector evaluated both the crew's performance and evaluators' assessments in-terms of the crew meeting the scenario objectives, accomplishing the critical tasks, proper use of abnormal and emergency operating procedures, command and control, effective communication, and the crew's ability to implement the emergency plan in-terms of event classification and notification. The inspector reviewed the post-scenario critique and confirmed lessons learned and items for improvement were discussed with the crew to enhance future performance.

Enclosure