

September 27, 2007

Mr. Michael A. Balduzzi
Sr. Vice President & COO
Regional Operations, NE
Entergy Nuclear Operations
440 Hamilton Avenue
White Plains, NY 10601-1839

SUBJECT: SUPPLEMENTAL SAFETY EVALUATION REPORT RELATED TO THE
LICENSE RENEWAL OF PILGRIM NUCLEAR POWER STATION

Dear Mr. Balduzzi:

By letter dated January 25, 2006, Entergy Nuclear Operations, Inc. (Entergy), submitted for the U.S. Nuclear Regulatory Commission (NRC) review, an application to renew the Pilgrim Nuclear Power Station (PNPS) operating license for up to an additional 20 years. The license renewal application (LRA) was submitted pursuant to Title 10 of the *Code of Federal Regulations* Part 54, "Requirements for Renewal of Operating Licenses for Nuclear Power Plants." The NRC staff determined that the LRA was complete and acceptable for docketing on March 21, 2006. Since that time, the staff has issued a safety evaluation report (SER) with open items dated March 1, 2007, and issued a final SER on June 28, 2007.

In a letter dated July 26, 2007, the NRC staff requested the applicant provide additional information on the option(s) that will be used for LRA Commitment No. 31, which is discussed in SER Section 4.3.3 (Effects of Reactor Water Environment on Fatigue Life), and to describe the methodology that will be used for the chosen Commitment No. 31 option(s). On the basis of this request, and the Entergy response, in the form of LRA Amendment 19, the staff has developed the enclosed supplemental SER (SSER) to document its findings associated with the safety review of the amended LRA and supporting documentation for PNPS. The enclosed SSER supercedes and replaces SER Sections 3.0.3.2.9 and 4.3.3.

If you have any questions regarding this matter, please contact the license renewal project manager, Mr. Perry Buckberg at (301) 415-1383 or by via e-mail PHB1@nrc.gov.

Sincerely,

/RA Samson Lee for/

Pao-Tsin Kuo, Director
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-293

Enclosure:
Safety Evaluation Report

cc w/encl: See next page

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Sr. Vice President & COO
Regional Operations, NE
Entergy Nuclear Operations
440 Hamilton Avenue
White Plains, NY 10601-1839

SUBJECT: SAFETY EVALUATION REPORT (SER) RELATED TO THE LICENSE
RENEWAL OF PILGRIM NUCLEAR POWER STATION

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Office of Nuclear Reactor Regulation

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NAME	KChang	LLund	PTKuo
DATE	09/17/07	09/17/07	09/27/07

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Letter to M. Balduzzi, from PTKuo, dated September 27, 2007

SUBJECT: SAFETY EVALUATION REPORT RELATED TO THE LICENSE RENEWAL OF
PILGRIM NUCLEAR POWER STATION

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Pilgrim Nuclear Power Station

cc:

Regional Administrator, Region I
U. S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406-1415

Senior Resident Inspector
U. S. Nuclear Regulatory Commission
Pilgrim Nuclear Power Station
P.O. Box 867
Plymouth, MA 02360

Chairman, Board of Selectmen
11 Lincoln Street
Plymouth, MA 02360

Chairman
Nuclear Matters Committee
Town Hall
11 Lincoln Street
Plymouth, MA 02360

Chairman, Duxbury Board of Selectmen
Town Hall
878 Tremont Street
Duxbury, MA 02332

Office of the Commissioner
Massachusetts Department of
Environmental Protection
One Winter Street
Boston, MA 02108

Office of the Attorney General
One Ashburton Place
20th Floor
Boston, MA 02108

MA Department of Public Health
Radiation Control Program
Schrafft Center, Suite 1M2A
529 Main Street
Charlestown, MA 02129

Secretary of Public Safety
Executive Office of Public Safety
One Ashburton Place
Boston, MA 02108

Director, Massachusetts Emergency
Management Agency
Attn: James Muckerheide
400 Worcester Road
Framingham, MA 01702-5399

Mr. William D. Meinert
Nuclear Engineer
Massachusetts Municipal Wholesale
Electric Company
P.O. Box 426
Ludlow, MA 01056-0426

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

Sr. Vice President
Engineering & Technical Services
Entergy Nuclear Operations
1340 Echelon Parkway
Jackson, MS 39213

Mr. Robert G. Smith
General Manager, Plant Operations
Entergy Nuclear Operations
Pilgrim Nuclear Power Station
600 Rocky Hill Road
Plymouth, MA 02360-5508

Mr. Stephen J. Bethay
Director, Nuclear Safety Assurance
Entergy Nuclear Operations
Pilgrim Nuclear Power Station
600 Rocky Hill Road
Plymouth, MA 02360-5508
Mr. Bryan S. Ford
Manager, Licensing
Entergy Nuclear Operations

Pilgrim Nuclear Power Station

-2-

cc:

Pilgrim Nuclear Power Station
600 Rocky Hill Road
Plymouth, MA 02360-5508

Mr. John T. Herron
Sr. Vice President
Entergy Nuclear Operations
1340 Echelon Parkway
Jackson, MS 39213

Mr. Oscar Limpias
Vice President, Engineering
Entergy Nuclear Operations
440 Hamilton Avenue
White Plains, NY 10601

Mr. John A. Ventosa
GM, Engineering
Entergy Nuclear Operations
440 Hamilton Avenue
White Plains, NY 10601

Mr. Joseph P. DeRoy
Vice President, Operations Support
Entergy Nuclear Operations
1340 Echelon Parkway
Jackson, MS 39213

Mr. Michael Kansler
President & CEO/CNO
Entergy Nuclear Operations
1340 Echelon Parkway
Jackson, MS 39213

Mr. John F. McCann
Director, Nuclear Safety & Licensing
Entergy Nuclear Operations
440 Hamilton Avenue
White Plains, NY 10601

Ms. Charlene D. Faison
Manager, Licensing
Entergy Nuclear Operations

440 Hamilton Avenue
White Plains, NY 10601

Mr. Ernest J. Harkness
Director, Oversight
Entergy Nuclear Operations
1340 Echelon Parkway
Jackson, MS 39213

Mr. William C. Dennis
Assistant General Counsel
Entergy Nuclear Operations
440 Hamilton Avenue
White Plains, NY 10601

Ms. Stacey Lousteau
Treasury Department
Entergy Services, Inc.
639 Loyola Avenue
New Orleans, LA 70113

Mr. James Sniezek
5486 Nithsdale Drive
Salisbury, MD 21801-2490

Mr. Michael D. Lyster
5931 Barclay Lane
Naples, FL 34110-7306

Ms. Julie Keys
Nuclear Energy Institute
1776 I Street, NW, Suite 400
Washington, DC 20006-3708

Plymouth Public Library
Attn: Dinah O'Brien
132 South Street
Plymouth, MA 02360

Duxbury Free Library
ATTN: Ms. Elaine Winkquist
77 Alden Street
Duxbury, MA 02332
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6 Green Street
Kingston, MA 02364

Pilgrim Nuclear Power Station

-3-

cc:

Ms. Mary Lampert
Duxbury Nuclear Advisory, Chair
Pilgrim Watch, Director
148 Washington Street
Duxbury, MA 02332

Mr. Garrett D. Edwards
814 Waverly Road
Kennett Square, PA 19348

Mr. John Doering
P.O. Box 189
Parker Ford, PA 19457