

August 29, 2007

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE  
VERMONT YANKEE NUCLEAR POWER STATION, LICENSE RENEWAL  
APPLICATION

Dear Mr. Balduzzi:

By letter dated January 25, 2006, Entergy Nuclear Operations, Inc. submitted an application pursuant to 10 CFR Part 54, to renew the operating license for Vermont Yankee Nuclear Power Station, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review.

This request for additional information was discussed with David Mannai et al, and a mutually agreeable date for the response is within 30 days from the date of this letter. A revised schedule for completion of the Vermont Yankee Nuclear Power Station license renewal application review will be issued upon receipt of a satisfactory response to this request for additional information. If you have any questions, please contact me at 301-415-4053 or e-mail [JGR@nrc.gov](mailto:JGR@nrc.gov).

Sincerely,

**/RA/**

Jonathan G. Rowley, Project Manager  
License Renewal Branch B  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-271

Enclosure:  
Request for Additional Information

cc w/encl: See next page

August 29, 2007

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE  
VERMONT YANKEE NUCLEAR POWER STATION, LICENSE RENEWAL  
APPLICATION

Dear Mr. Balduzzi:

By letter dated January 25, 2006, Entergy Nuclear Operations, Inc. submitted an application pursuant to 10 CFR Part 54, to renew the operating license for Vermont Yankee Nuclear Power Station, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review.

This request for additional information was discussed with David Mannai et al, and a mutually agreeable date for the response is within 30 days from the date of this letter. A revised schedule for completion of the Vermont Yankee Nuclear Power Station license renewal application review will be issued upon receipt of a satisfactory response to this request for additional information. If you have any questions, please contact me at 301-415-4053 or e-mail [JGR@nrc.gov](mailto:JGR@nrc.gov).

Sincerely,

*/RA/*

Jonathan G. Rowley, Project Manager  
License Renewal Branch B  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-271

Enclosure:  
Request for Additional Information

cc w/encl: See next page  
DISTRIBUTION: See following pages

ADAMS Accession No.: **ML07239052**

OFFICE	PM:RLRB:DLR	LA:DLR	BC:RLRB:DLR
NAME	JRowley	YEdmonds	SHoffman for RAuluck
DATE	08/29/07	08/28/07	08/29/07

OFFICIAL RECORD COPY

Letter to M. Balduzzi from J. Rowley dated, August 29, 2007

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE  
VERMONT YANKEE NUCLEAR POWER STATION, LICENSE RENEWAL  
APPLICATION

DISTRIBUTION:

**HARD COPY:**

DLR RF

**E-MAIL:**

PUBLIC

SSmith (srs3)

SDuraiswamy

RidsNrrDir

RidsNrrDirRlra

RidsNrrDirRlrb

RidsNrrDirRlrc

RidsNrrDirReba

RidsNrrDirRebb

RidsNrrDci

RidsNrrDra

RidsNrrDe

RidsNrrDeEemb

RidsNrrDeEeeb

RidsNrrDss

RidsOgcMailCenter

RidsNrrAdes

-----

JRowley

RLaufer

JShea

CAnderson, RI

RPowell, RI

DScrenci, RI

MModes, RI

DPelton, SRI

MYoung

RidsOpaMail

## Vermont Yankee Nuclear Power Station

cc:

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

Mr. David R. Lewis  
Pillsbury Winthrop Shaw Pittman, LLP  
2300 N Street, N.W.  
Washington, DC 20037-1128

Mr. David O'Brien, Commissioner  
Vermont Department of Public Service  
112 State Street  
Montpelier, VT 05620-2601

Mr. James Volz, Chairman  
Public Service Board  
State of Vermont  
112 State Street  
Montpelier, VT 05620-2701

Chairman, Board of Selectmen  
Town of Vernon  
P.O. Box 116  
Vernon, VT 05354-0116

Operating Experience Coordinator  
Vermont Yankee Nuclear Power Station  
320 Governor Hunt Road  
Vernon, VT 05354

G. Dana Bisbee, Esq.  
Deputy Attorney General  
33 Capitol Street  
Concord, NH 03301-6937

Chief, Safety Unit  
Office of the Attorney General  
One Ashburton Place, 19th Floor  
Boston, MA 02108

Ms. Carla A. White, RRPT, CHP  
Radiological Health  
Vermont Department of Health  
P.O. Box 70, Drawer #43  
108 Cherry Street

Burlington, VT 05402-0070  
Mr. David Mannai  
Manager, Licensing  
Vermont Yankee Nuclear Power Station  
P.O. Box 0500  
185 Old Ferry Road  
Brattleboro, VT 05302-0500

Resident Inspector  
Vermont Yankee Nuclear Power Station  
U. S. Nuclear Regulatory Commission  
P.O. Box 176  
Vernon, VT 05354

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

Jonathan M. Block, Esq.  
Main Street  
P.O. Box 566  
Putney, VT 05346-0566

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

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

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

Vermont Yankee Nuclear Power Station -2-

cc:

Mr. Christopher Schwartz  
Vice President, Operations Support  
Entergy Nuclear Operations, Inc.  
440 Hamilton Avenue  
White Plains, NY 10601

Mr. Michael J. Colomb  
Director of Oversight  
Entergy Nuclear Operations, Inc.  
440 Hamilton Avenue  
White Plains, NY 10601

Mr. Travis C. McCullough  
Assistant General Counsel  
Entergy Nuclear Operations, Inc.  
440 Hamilton Avenue  
White Plains, NY 10601

Mr. Theodore Sullivan  
Site Vice President  
Entergy Nuclear Operations, Inc.  
Vermont Yankee Nuclear Power Station  
P.O. Box 0500  
185 Old Ferry Road  
Brattleboro, VT 05302-0500

Mr. James H. Sniezek  
5486 Nithsdale Drive  
Salisbury, MD 21801

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

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

Mr. Norman L. Rademacher  
Director, NSA  
Vermont Yankee Nuclear Power Station  
P.O. Box 0500  
185 Old Ferry Road  
Brattleboro, VT 05302-0500

Mr. Raymond Shadis  
New England Coalition  
Post Office Box 98  
Edgecomb, ME 04556

Mr. James P. Matteau  
Executive Director  
Windham Regional Commission  
139 Main Street, Suite 505  
Brattleboro, VT 05301

Mr. William K. Sherman  
Vermont Department of Public Service  
112 State Street  
Drawer 20  
Montpelier, VT 05620-2601

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

Ms. Charlene D. Faison  
Manager, Licensing  
440 Hamilton Avenue  
White Plains, NY 10601

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

Diane Curran, Esq.  
Harmon, Curran, Spielberg &  
Eisenberg, L.L.P.  
1726 M Street, NW, Suite 600  
Washington, DC 20036

Ronald A. Shems, Esq.  
Shems, Dunkiel, Kassel & Saunders, PLLC  
91 College Street  
Burlington, VT 05401

Karen Tyler, Esq.  
Shems, Dunkiel, Kassel & Saunders, PLLC  
91 College Street  
Burlington, VT 05401

cc:

Sarah Hofmann, Esq.  
Director of Public Advocacy  
Department of Public Service  
112 State Street - Drawer 20  
Montpelier, VT 05620-2601

Jennifer J. Patterson, Esq.  
Office of the New Hampshire Attorney  
General  
33 Capitol Street  
Concord, NH 03301

Matias F. Travieso-Diaz, Esq.  
Pillsbury Winthrop Shaw Pittman LLP  
2300 N Street, NW  
Washington, DC 20037-1128

Matthew Brock, Esq.  
Assistant Attorney General  
Office of the Massachusetts Attorney  
General  
Environmental Protection Division  
One Ashburton Place, Room 1813  
Boston, MA 02108-1598

Anthony Z. Roisman, Esq.  
National Legal Scholars Law Firm  
84 East Thetford Road  
Lyme, NH 03768

VERMONT YANKEE NUCLEAR POWER STATION  
LICENSE RENEWAL APPLICATION (LRA)  
REQUEST FOR ADDITIONAL INFORMATION (RAI)

**RAI 2.4.4-2**

Please provide the results of the review performed to determine the impact of the circulating water piping, pipe supports, and west cooling tower cell (2-4) failures on license renewal scoping, screening, and applicable aging management programs. Please include the following:

- A. A conclusion and basis as to whether the scoping results documented in the LRA, which initially determined that 9 of the 11 west cooling tower cells were not within the scope of license renewal, are still valid.
- B. If found that the west cooling tower cells are within the scope of license renewal. Please provide the following:
  - I. The potential effect of a circulating water piping, pipe supports, or structural failure of the nonsafety-related west cooling tower cells (2-3 through 2-11), which were not included within the scope of license renewal, on safety-related systems, structures, and components (in accordance with 10 CFR 54.4(a)(2)). Include the potential effect of debris entering the deep basin beneath the cooling tower.
  - II. The details of any age related degradation which caused the failure of the circulating water piping, pipe supports, and west cooling tower cell. Include the results of the piping and pipe supports inspection related to the current failure and any previously performed, and a description of the identified aging mechanism(s).
- C. Any impact on the aging management programs for circulating water piping, pipe supports, or cooling tower cells.

Enclosure