

August 3, 2006

Mr. Michael Kansler  
President  
Entergy Nuclear Operations, Inc.  
440 Hamilton Avenue  
White Plains, NY 10601-1839

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

Dear Mr. Kansler:

By letter dated January 25, 2006, as supplemented by letter dated March 15, 2006, the U.S. Nuclear Regulatory Commission (NRC) received the Entergy Nuclear Operations, Inc. application for renewal of Operating License No. DPR-28 for the Vermont Yankee Nuclear Power Station (VYNPS). The NRC 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. Specifically, the enclosed requests for additional information are from Section 2.5, "Scoping and Screening Results: Electrical and Instrumentation and Control Systems," of the VYNPS license renewal application.

Based on discussions with Mr. Jim DeVincentis of your staff, a mutually agreeable date for your response is within 30 days of the date of this letter. If you have any questions regarding this letter or if circumstances result in your need to revise the response date, please contact me at 301-415-4053 or by e-mail at [jgr@nrc.gov](mailto:jgr@nrc.gov).

Sincerely,

**/RA/**

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

Docket No. 50-271

Enclosure:  
Requests for Additional Information

cc w/encl: See next page

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NAME	JRowley	IKing	JZimmerman
DATE	08/ 03 /06	07/ 18 /06	08/ 3 /06

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Letter to Michael Kansler from Jonathan Rowley dated August 3, 2006

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

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DLR R/F

**E-MAIL:**

JFair  
RWeisman  
AMurphy  
RPettis  
GGalletti  
DShum  
GBagchi  
SSmith (srs3)  
SDuraiswamy  
YL (Renee) Li  
RidsNrrDlr  
RidsNrrDlrRIra  
RidsNrrDlrRIrb  
RidsNrrDe  
RidsNrrDci  
RidsNrrEemb  
RidsNrrDeEeeb  
RidsNrrDeEqva  
RidsNrrDss  
RidsNrrDnrl  
RidsOgcMailCenter  
RidsNrrAdes  
DLR Staff

-----

JEads  
JRowley  
RLaufer  
JShea  
CAnderson, RI  
MSykes, RI  
DScrenci, RI  
MModes, RI  
DPelton, Sr. Resident  
MLemoncelli  
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. Deborah B. Katz  
Box 83  
Shelburne Falls, MA 01370

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. James M. DeVincentis  
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 Rd.  
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. Gary J. Taylor  
Chief Executive Officer  
Entergy Operations  
1340 Echelon Parkway  
Jackson, MS 39213

Mr. John T. Herron  
Sr. VP and Chief Operating Officer  
Entergy Nuclear Operations, Inc.  
440 Hamilton Avenue  
White Plains, NY 10601

Vermont Yankee Nuclear Power Station

cc:

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

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. Ted 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

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

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

Mr. James Ross  
Nuclear Energy Institute  
1776 I Street, NW, Suite 400  
Washington, DC 20006-3708

**VERMONT YANKEE NUCLEAR POWER STATION**  
**LICENSE RENEWAL APPLICATION**  
**REQUESTS FOR ADDITIONAL INFORMATION (RAIs)**

**RAI 2.5-1**

The Electrical and Instrumentation and Control Systems within the scope of license renewal are listed in Table 2.2-1b of the license renewal application (LRA). Please provide brief descriptions of the systems explaining how each system serves one or more functions listed in 10 *Code of Federal Regulations* (CFR) 54.4(a).

**RAI 2.5-2**

In Section 2.5 (Page 2.5-2) of the LRA, it is stated that the Vermont Yankee Nuclear Power Station uses the Vernon Hydroelectric Station as an alternate alternating current (AAC) source to satisfy the requirements of 10 CFR 50.63 for response to a station blackout. Please provide a sketch similar to Figure 2.5-1 in the LRA illustrating the AAC source and explain which parts of the AAC source are subject to an aging managing review (AMR) based on 10 CFR 54.4(a)(3). Also, describe the offsite power recovery paths from switchyard to the onsite distribution system which are in the license renewal scope.

**RAI 2.5-3**

In Section 2.5 (Page 2.5-3) of the LRA, it is stated that the commodity groups of metal enclosed bus connections, enclosure assemblies, and insulators were evaluated and do not support a license renewal function. Please provide brief descriptions of these commodity groups, and explain why an AMR is not necessary for these commodity groups providing reference to 10 CFR 54.21(a).

**RAI 2.5-4**

Generic Aging Lessens Learned (GALL) Report aging management program XI.E6, "Electrical Cable Connections not Subject to 10 CFR 50.49 Environmental Qualification Requirements," recommends an aging managing program for cable connections (metallic portion). Please provide justification, in detail, why there are no aging effects requiring management for cable connections.

Enclosure