

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.

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

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cc w/encl: See next page
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OFFICIAL RECORD COPY

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

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VERMONT YANKEE NUCLEAR POWER STATION, LICENSE RENEWAL
APPLICATION

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Vermont Yankee Nuclear Power Station

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Vermont Yankee Nuclear Power Station -2-

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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