

September 28, 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, 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 3.5, "Structures and Component Supports," 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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**DISTRIBUTION:** See next page

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OFFICIAL RECORD COPY

Letter to Michael Kansler from Jonathan Rowley dated September 28, 2006

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

**HARD COPY**

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Vermont Yankee Nuclear Power Station

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

**RAI 3.5-2**

Table 3.5.2-1 of the Vermont Yankee Nuclear Power Station (VYNPS) license renewal application (LRA) does not list downcomers as a component. However, downcomers are listed in Table 3.5.1 under line item 3.5.1-13. The applicant is requested to explain why there is neither an aging management program (AMP) nor an aging management review provided for downcomers in Table 3.5.2-1.

**RAI 3.5-5**

VYNPS AMP B.1.15, Inservice Inspection, states that “For containment inservice inspection, general visual and detailed visual examinations are used in addition to VT [visual testing] examinations as allowed by 10 CFR 50.55(a) to include applicable relief requests.” The applicant is requested to describe the differences between the general visual, detailed visual, and VT examinations. In addition, the applicant is requested to state the relief requests referenced in AMP B.1.15.

**RA 3.5-6**

AMP B.1.15, Inservice Inspection, and A.2.1.16, Inservice Inspection—Containment Inservice Inspection Program, states that “The program includes augmented ultrasonic exams to measure wall thickness of the containment structure.” Explain the difference between the augmented portion of the ultrasonic exams performed in the two programs mentioned and that of the American Society of Mechanical Engineers Section XI Inservice Inspection program.

**RAI 3.5-7**

Section 3.5.2.2.1.1 of the VYNPS LRA states that the below-grade environment is not aggressive. The staff requests that the applicant provide actual values of pH, chlorides, and sulfates in the groundwater/soil adjacent to structures in order to verify the claim of a non-aggressive below-grade environment.

**RAI 3.5-9**

The applicant is requested to confirm whether or not the aggregates used for the concrete base mat that supports the steel containment have been tested for reactivity in accordance with American Society for Testing and Materials C-289 and C-295.

Enclosure