

October 27, 2006

LICENSEE: Entergy Nuclear Operations, Inc.
FACILITY: Vermont Yankee Nuclear Power Station
SUBJECT: SUMMARY OF A TELEPHONE CONFERENCE CALL HELD ON
SEPTEMBER 27, 2006, BETWEEN THE U.S. NUCLEAR REGULATORY
COMMISSION AND ENTERGY NUCLEAR OPERATIONS, INC., CONCERNING
INFORMATION PERTAINING TO THE VERMONT YANKEE NUCLEAR
POWER STATION LICENSE RENEWAL APPLICATION

The U.S. Nuclear Regulatory Commission staff (the staff) and representatives of Entergy Nuclear Operations, Inc., held a telephone conference call on September 27, 2006, to discuss and clarify the staff's requests for additional information concerning the Vermont Yankee Nuclear Station license renewal application. The conference call was useful in clarifying the staff's questions.

Enclosure 1 provides a listing of the conference call participants. Enclosure 2 contains a listing of the issues discussed with the applicant, including a brief discussion of the items' status.

The applicant had an opportunity to comment on this summary.

/RA/

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

Docket No. 50-271

Enclosures:
As stated

cc w/encls: See next page

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Vermont Yankee Nuclear Power Station

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Vermont Yankee Nuclear Power Station

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Note to Entergy Nuclear Operations, Inc., from Jonathan Rowley dated October 27, 2006

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**LIST OF PARTICIPANTS FOR TELEPHONE CONFERENCE CALL
TO DISCUSS THE VERMONT YANKEE NUCLEAR POWER STATION
LICENSE RENEWAL APPLICATION**

September 27, 2006

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**VERMONT YANKEE NUCLEAR POWER STATION
LICENSE RENEWAL APPLICATION**

September 27, 2006

The U.S. Nuclear Regulatory Commission staff (the staff) and representatives of Entergy Nuclear Operations, Inc., held a telephone conference call on September 27, 2006, to discuss and clarify the staff's requests for additional information (RAIs) and other issues concerning the Vermont Yankee Nuclear Power Station (VYNPS) license renewal application (LRA). The following issues were discussed during the telephone conference call:

RAI 3.3.1-22-K-01

Please confirm that no auxiliary components have elastomer linings or stainless steel cladding. If there are such components, please provide a list of these components. Also, provide additional justification for the determination that pitting and crevice corrosion do not require aging management.

Discussion: The staff requested clarification of the applicant's response in their September 5, 2006, letter (License Renewal Application, Amendment 12) to this RAI. The staff required confirmation that the Water Chemistry Control and One-Time Inspection Programs were used to manage the aging of components that have elastomer linings. The applicant stated that both programs are used.

RAI 3.3.1-68-K-03

Beginning on Page 3.3-206 of the VYNPS LRA, loss of material from carbon steel components is managed using One-Time Inspection (OTI). Please justify the use of OTI for carbon steel exposed to raw water as opposed to a periodic inspection.

Discussion: The staff requested clarification of the applicant's response in their September 5, 2006, letter (License Renewal Application, Amendment 12) to this RAI. The staff requested the applicant to further clarify the term "untreated water" as used in the application and RAI response. The applicant will provide a supplemental response to this concern in a future letter to the NRC.

RAI 3.1.1-17-P-01

According to USNRC Regulatory Guide 1.190, "Calculational and Dosimetry Methods for Determining Pressure Vessel Neutron Fluence," analytic uncertainty (Section 1.4.1) is to be considered in the calculation of fluence. As noted by the staff, in GE-NE-000-0007-2342-R1-NP (dated July 2003), "Entergy Northeast Vermont Yankee Neutron Flux Evaluation," flux variations of up to but less than 19% was considered. In response to staff AMR audit question #202, the applicant provided extrapolated data to determine if the top of the recirculation inlet nozzles (located at a "104R940" height of 202 inches) might experience an extended power uprate fluence of $>1 \times 10^{17}$.

Enclosure 2

Was a maximum flux variation of ~19%, considered in this “extrapolated data”? If not, what calculated fluence level would be experienced by the top of the recirculation inlet nozzles when the applicant considers a maximum flux variation of just less than 19%?

Discussion: The staff requested clarification of the applicant’s response in their September 5, 2006, letter (License Renewal Application, Amendment 12) to this RAI. The applicant stated that they addressed a similar concern in the response to RAI 4.2-1. The staff will have an internal discussion to determine if that response satisfies both RAIs.