

PA-LR

From: Jonathan Rowley
To: mhamer@entergy.com
Date: Thu, Jan 18, 2007 10:13 AM
Subject: for your review and comment

Mike

Please review and provide comment as you see fit on the attached meeting summary.

Jonathan Rowley, Project Manager
License Renewal Branch B
Division of License Renewal
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
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LICENSEE: Entergy Nuclear Operations, Inc.
FACILITY: Vermont Yankee Nuclear Power Station
SUBJECT: SUMMARY OF A TELEPHONE CONFERENCE CALL HELD ON
DECEMBER 6, 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., (ENO) held a telephone conference call on December 6, 2006, to discuss and clarify the staff's requests for additional information (RAIs) concerning the Vermont Yankee Nuclear Station (VYNPS) license renewal application (LRA). The conference call was useful in clarifying the staff's questions.

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

The applicant had an opportunity to comment on this summary.

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

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

December 6, 2006

Participants

Jonathan Rowley
Dan Hoang
Duc Nguyen
Kenneth Chang
Kaihwa Hsu
Alan Cox
Lori Potts
Michael Hamer
Dave Lach
David Mannai
Paul Johnson
Michael Metel
Mike Stroud

Affiliations

U.S. Nuclear Regulatory Commission (NRC)
NRC
NRC
NRC
NRC
Entergy Nuclear Operations, Inc. (ENO)
ENO
ENO
ENO
ENO
ENO
ENO
ENO

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

December 6, 2006

The U.S. Nuclear Regulatory Commission staff (the staff) and representatives of Entergy Nuclear Operations, Inc., held a telephone conference call on December 6, 2006, to discuss and clarify the staff's requests for additional information (RAIs) concerning the Vermont Yankee Nuclear Power Station (VYNPS) license renewal application (LRA). The following issues were discussed during the telephone conference call:

RAI 3.6.2.2-N-01-1

... the staff requests that the applicant either provide a plant-specific AMP with the AMP elements found in the Standard Review Plan for Review of License Renewal Applications for Nuclear Power Plants (SRP-LR), Appendix A.1, Section A.1.2.3 and SRP-LR Table A.1-1, or an AMP consistent with GALL AMP XI.E6. If the applicant maintains that an AMP is not required, the applicant is requested to explain in detail how the existing program will address the above aging effects and provide a detailed discussion of how each of the ten elements of aging management, as described in the SRP-LR sections mentioned above, is met by the current program. Also, the applicant is requested to provide supporting documentation to show that the aging management program elements, including appropriate tests, are implemented currently and will be continued for the extended period of operation.

Discussion: The applicant agreed to submit a XI.E6 program bases on the discussion and decision made during the November 30, 2006 meeting with the Nuclear Energy Institute (NEI). The staff will evaluate the program upon its submittal.

RAI 3.6.2.2-N-08-2

Electrical components for the VHS include 2 black-start turbine generators, cables and buses for power transmission, instrumentation and control components and their associated cables and connections. The audit team found that there is an aging management program (AMP) for underground cables from Vernon tie breaker routed to Vermont Yankee. However, there appears to be no AMPs for electrical components from the tie breaker to VHS generators. Please describe how aging effects on the rest of the electrical components will be managed during the period of extended operation.

Discussion: The applicant first addressed this RAI in their October 20, 2006, letter (License Renewal Application, Amendment 17). The staff did not agree with the applicant's methodology used in that response. The staff clarified its position. The applicant will provide a revised response to this concern in a future letter to the NRC.

RAI 3.6.2.2-N-08-4

The applicant stated that VHS switchyard passive long-lived commodity groups are effectively maintained through routine maintenance by the switchyard owner. Describe how this routine

Enclosure 2

maintenance will manage the aging effects on the VHS switchyard passive long-lived commodity groups during the period of extended operations.

Discussion: The applicant first addressed this RAI in their October 20, 2006, letter (License Renewal Application, Amendment 17). The staff did not agree with the applicant's methodology used in that response. The staff clarified its position. The applicant will provide a revised response to this concern in a future letter to the NRC.

RAI 3.6.2.2-N-08-5

Address the following SBO AAC related items:

- a. Please describe (as stated in Generic Aging Lessons Learned (GALL) AMP XI.E6) how aging effects are managed so that the intended function of cable connections associated with SBO AAC (including VHS) will be maintained during the extended period of operation.

Discussion: The applicant first addressed this RAI in their October 20, 2006, letter (License Renewal Application, Amendment 17). The staff did not agree with the applicant's methodology used in that response. The staff clarified its position. The applicant will provide a revised response to this concern in a future letter to the NRC.

RAI 4.3-H-1

In the basis document of the fatigue monitoring program, 100°F/hour heatup/cooldown rate was identified for the normal transient conditions. The actual operating condition for heatup and cooldown rate is 100°F when averaged over any one hour period. Therefore, the actual operating condition may indicate much higher rate than 100°F/hour. For example, 60°F temperature change for the 0.1 hour period represents 600°F/hour rate. Staff considers that thermal stress is function of rate of temperature difference. The higher the rate, the higher the stress.

Please provide description to ensure that VYNPS's automatic cycle counting program will adequately define the transients and cycle numbers. Please provide description to ensure the fatigue cumulative usage factor and thermal stress are evaluated in accordance with the actual transients or enveloped the actual transient.

Discussion: The staff requested the applicant provide actual numbers for design cycles versus transients. The applicant agreed to provide the requested numbers in a supplemental response to this concern in a future letter to the NRC.