

Jonathan Rowley - October 11 and 16 conference call summaries

From: Jonathan Rowley
To: jdevinc@entergy.com
Date: 11/16/2007 10:32 AM
Subject: October 11 and 16 conference call summaries

Attached are the summaries for conference calls held on Oct. 11 and Oct. 16, 2007. Please review and comment where necessary.

Mail Envelope Properties (473DB825.347 : 12 : 35182)

Subject: October 11 and 16 conference call summaries
Creation Date 11/16/2007 10:32:53 AM
From: Jonathan Rowley

Created By: JGR@nrc.gov

Recipients	Action	Date & Time
entergy.com	Transferred	11/16/2007 10:33:05
AM		
jdevinc (<u>jdevinc@entergy.com</u>)		

Post Office	Delivered	Route
		entergy.com

Files	Size	Date & Time
MESSAGE	441	11/16/2007 10:32:52 AM
TEXT.htm	347	
Summary of Telephone Conference - October 11, 2007.wpd		58368 11/14/2007
11:51:04 AM		
Summary of Telephone Conference - October 16, 2007.doc		73216 11/16/2007
10:15:02 AM		

Options

Auto Delete: No
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Priority: Standard
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Return Notification:
Send Notification when Opened

Concealed Subject: No
Security: Standard

To Be Delivered: Immediate
Status Tracking: Delivered & Opened

LICENSEE: Entergy Nuclear Operations, Inc.

FACILITY: Vermont Yankee Nuclear Power Station

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALL HELD ON OCTOBER 11, 2007, BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND ENTERGY NUCLEAR OPERATIONS, INC., CONCERNING AUDIT QUESTIONS PERTAINING TO THE VERMONT YANKEE NUCLEAR POWER STATION LICENSE RENEWAL APPLICATION

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of Entergy Nuclear Operations, Inc. held a telephone conference call on October 11, 2007, to discuss and clarify the staff's audit questions concerning the Vermont Yankee Nuclear Power Station (VYNPS) license renewal application asked during the October 9 - 10, 2007, audit of the VYNPS time-limited aging analyses. The telephone conference call was useful in clarifying the intent of the staff's audit questions.

Enclosure 1 provides a listing of the participants and Enclosure 2 contains a listing of the audit questions discussed with the applicant, including a brief description on the status of the items.

The applicant had an opportunity to comment on this summary.

Jonathan G. Rowley, Project Manager
Projects Branch 2
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-271

Enclosures:

1. List of Participants
2. List of Audit Questions

cc w/encls: See next page

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ADAMS Accession No: ML

OFFICE	LA:DLR	PM:RLRB:DLR	BC:RPB2:DLR
NAME		JRowley	RFranovich
DATE	11/ /07	11/ /07	11/ /07

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**TELEPHONE CONFERENCE CALL
VERMONT YANKEE NUCLEAR POWER STATION
LICENSE RENEWAL APPLICATION**

**LIST OF PARTICIPANTS
OCTOBER 11, 2007**

PARTICIPANTS

Jonathan Rowley
Kenneth Chang
Robert Hsu
Michael Metell
David Mannai
James Fitzpatrick
Alan cox

AFFILIATIONS

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

ENCLOSURE 1

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

OCTOBER 11, 2007

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of Entergy Nuclear Operations, Inc. held a telephone conference call on October 11, 2007, to discuss and clarify the following audit questions concerning the Vermont Yankee Nuclear Power Station (VYNPS) license renewal application (LRA).

1st Audit question

The ASME Code defines that stress intensity from two temperature transients is calculated from the stress components from the two conditions. Please explain how it could be calculated from stress intensities of the two conditions derived from Greens Functions, especially at locations of geometric discontinuity. Also, please justify the validity of combining the thermal transient stress intensities with the stress intensities from the external loads and pressure loading.

Discussion: The applicant indicated that the question is clear.

2nd Audit question

Provide justification for statement on page 5 of 34 of Calculation No. VY-16Q-302, that AThe Green function methodology provides identical results compared to running the input transient through the finite element model.@

Discussion: The applicant indicated that the question is clear.

3rd Audit question

For the blend radius for the feedwater nozzle in Calculation No. VY-16Q-302, Table 4, Page 16, why are the Total and M+B stresses for thermal transient 3, shown in columns 3 and 4, high at 0 seconds ($t = 0$)? This question also applies to transient 4 at $t = 1801.9$ seconds, transient 9 at $t = 2524$ seconds, and transient 21-23 at $t = 20144$ seconds.

Discussion: The applicant indicated that the question is clear.

4th Audit question

Explain why there are differences in the calculated cumulative usage factor (CUF) values between Rev. A and Rev. 0 of the Structural Integrity calculations. Also, why are the CUFs calculated by Structural Integrity different from the CUFs shown in Tables 4.3.1 and 4.3.3 of the Vermont Yankee license renewal application?

Discussion: The applicant indicated that the question is clear.

ENCLOSURE 2

5th Audit question

Page 1-1 of Report VY-16Q-401 indicates that refined transient definitions for 60 years of operation are used in the computation of the CUF incorporating environmentally assisted fatigue effects. Please explain the refinements in the transient definitions.

Discussion: The applicant indicated that the question is clear.

6th Audit question

For the feedwater nozzles there are large differences between the CUFs without the environmental fatigue life correction (Fen) factors shown in Table 4.3.1 of the Vermont Yankee license renewal application and those shown in Calculation No. VY-16Q-302. Section 2.0 of the calculation on page 4 of 32 states, A...several of the conservatisms originally used in the original feedwater evaluation (such as grouping of transients) are removed...@ Please explain what conservatisms were removed.

Discussion: The applicant indicated that the question is clear.

7th Audit question

For stainless steel components listed in table 3-10 of Structural Integrity Report SIR-07-132 (VY-16Q-404), please justify that the calculated Fen values are conservative.

Discussion: The applicant indicated that the question is clear.

LICENSEE: Entergy Nuclear Operations, Inc.

FACILITY: Vermont Yankee Nuclear Power Station

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALL HELD ON OCTOBER 16, 2007, BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND ENTERGY NUCLEAR OPERATIONS, INC., CONCERNING AUDIT QUESTIONS PERTAINING TO THE VERMONT YANKEE NUCLEAR POWER STATION LICENSE RENEWAL APPLICATION

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Office of Nuclear Reactor Regulation

Docket No. 50-271

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VERMONT YANKEE NUCLEAR POWER STATION
LICENSE RENEWAL APPLICATION**

**LIST OF PARTICIPANTS
OCTOBER 16, 2007**

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Jonathan Rowley
Kenneth Chang
Michael Metell
David Mannai
James Fitzpatrick
Alan Cox
James DeVincentis
David Lach
Terry Herman
Garry Stephens

AFFILIATIONS

U.S. Nuclear Regulatory Commission (NRC)
NRC
Entergy Nuclear Operations, Inc. (Entergy)
Entergy
Entergy
Entergy
Entergy
Entergy
Structural Integrity Associates (SIA)
SIA

ENCLOSURE 1

**REQUESTS FOR ADDITIONAL INFORMATION
VERMONT YANKEE NUCLEAR POWER STATION
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OCTOBER 16, 2007

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ENCLOSURE 2

Vermont Yankee Nuclear Power Station

- 3 -

cc:

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