

Davis-BesseNPEm Resource

From: CuadradoDeJesus, Samuel
Sent: Friday, January 13, 2012 4:14 PM
To: dorts@firstenergycorp.com
Cc: Davis-BesseHearingFile Resource; custer@firstenergycorp.com
Subject: DB telephone conference summaries for your review and comments
Attachments: 6 16 2011 v2 DB NRC Telecon Summary.docx; 11 9 2011 DB NRC Telecon Summary.docx

Steve,

Can you let me know early next week if you have any comments?

Regards,

Samuel Cuadrado de Jesús

Project Manager

Projects Branch 1

Division of License Renewal

U.S. Nuclear Regulatory Commission

Phone: 301-415-2946

Samuel.CuadradoDeJesus@nrc.gov

Hearing Identifier: Davis_BesseLicenseRenewal_Saf_NonPublic
Email Number: 3198

Mail Envelope Properties (377CB97DD54F0F4FAAC7E9FD88BCA6D0806FCB93F8)

Subject: DB telephone conference summaries for your review and comments
Sent Date: 1/13/2012 4:13:54 PM
Received Date: 1/13/2012 4:13:56 PM
From: CuadradoDeJesus, Samuel

Created By: Samuel.CuadradoDeJesus@nrc.gov

Recipients:

"Davis-BesseHearingFile Resource" <Davis-BesseHearingFile.Resource@nrc.gov>
Tracking Status: None
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Tracking Status: None
"dorts@firstenergycorp.com" <dorts@firstenergycorp.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	348	1/13/2012 4:13:56 PM
6 16 2011 v2 DB NRC Telecon Summary.docx	33227	
11 9 2011 DB NRC Telecon Summary.docx	29203	

Options

Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

LICENSEE: FirstEnergy Nuclear Operating Company

FACILITY: Davis-Besse

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALL HELD ON JUNE 16, 2011
BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND
FIRSTENERGY NUCLEAR OPERATING COMPANY, CONCERNING
REQUESTS FOR ADDITIONAL INFORMATION PERTAINING TO THE
DAVIS-BESSE, LICENSE RENEWAL APPLICATION (TAC. NO. ME4640)

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of FirstEnergy Nuclear Operating Company (FENOC or the applicant) held a telephone conference call on June 16, 2011, to discuss and clarify the staff's concerns related to the Davis-Besse license renewal application.

Enclosure 1 provides a listing of the participants and Enclosure 2 contains a description of the staff concerns discussed with the applicant. A brief description on the status of the items is also included.

The applicant had an opportunity to comment on this summary.

Samuel Cuadrado de Jesús
License Renewal Branch, RPB1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Number:50-346

Enclosures:

1. List of Participants
2. List of Requests for Additional
Information

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LICENSEE: FirstEnergy Nuclear Operating Company

FACILITY: Davis-Besse

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALL HELD ON JUNE 16, 2011 BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND FIRSTENERGY NUCLEAR OPERATING COMPANY, CONCERNING REQUESTS FOR ADDITIONAL INFORMATION PERTAINING TO THE DAVIS-BESSE, LICENSE RENEWAL APPLICATION (TAC. NO. ME4640)

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Samuel Cuadrado de Jesús
License Renewal Branch, RPB1
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Office of Nuclear Reactor Regulation

Docket Number: 50-346

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SUMMARY OF TELEPHONE CONFERENCE CALL
DAVIS-BESSE
LICENSE RENEWAL APPLICATION

LIST OF PARTICIPANTS
JUNE 16, 2011

PARTICIPANTS

AFFILIATIONS

Samuel Cuadrado de Jesús

U.S. Nuclear Regulatory Commission (NRC)

James Medoff

NRC

Steve Dort

FirstEnergy Nuclear Operating Company (FENOC)

Kathy Nesser

FENOC

John Hartigan

FENOC

Larry Hinkle

FENOC

SUMMARY OF TELEPHONE CONFERENCE CALL

LICENSE RENEWAL APPLICATION

JUNE 16, 2011

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of FirstEnergy Nuclear Operating Company (FENOC or the applicant) held a telephone conference call on June 16, 2011, to discuss and clarify the following concerns related to the Davis-Besse license renewal application (LRA).

Discuss absence of a TLAA on their bases for non-Class 1, non-piping components.

Discussion:

The staff requested the applicant to explain the absence of a TLAA on their bases for non-Class 1, non-piping components.

The applicant responded by explaining that non-Class 1 components reanalyzed as Class 1 components are addressed under the Class 1 Section of the LRA.

The staff understood the applicant's explanation and stated that no RAI is necessary.

RAI 4.1-2

Discussion:

The staff requested the applicant to discuss extension of the scope of RAI 4.1-2 to both the time-dependent J-integral analysis in and the time-dependent fatigue flaw growth analysis in Structural Integrity Associates (SIA) Topical Report No. SIR-99-040, Revision 1, "ASME Code Case N-481 of Davis Besse Reactor Coolant Pumps." (ADAMS Accession No. ML011200090). The staff stated that the scope of the RAI, as issued, only talked about the fatigue flaw growth analysis in the Report, which forms the basis for applying VT-1 or EVT-1 visual examinations of the outside surfaces of the reactor coolant pump (RCP) casing welds in lieu of the UT examinations that would be required by the ASME Section XI Code of Record. The staff also stated that there is a possibility, that 10 CFR 50.55a may require the applicant to update to a more recent edition of the ASME Section XI Code that has incorporated the visual examinations requirements for the pump casings. If this is the case the staff stated that it will need to know whether the applicant's CLB is still relying on the SIA report in support using the visual methods cited in the updated ASME Section XI Code of Record.

The applicant responded by stating that the response to RAI 4.1-2 as presently drafted only addresses time-dependent fatigue flaw growth analysis. The applicant stated that the response is included in the letter (L-11-203) that is to be sent to the NRC on Friday, June 17, 2011. Because the response was already drafted and already went through the applicant's submittal process, a supplement to the response will be submitted at a later date (most likely with the letter due June 24, 2011) to address the timedependent J-integral analysis.

In addition, the applicant also stated that the applicable ASME Code for the current (third) ten year inspection interval for Davis-Besse is ASME Section XI, 1995 Edition, through the 1996 Addenda and that the interval does not end until September 20, 2012. Therefore, the Davis-Besse CLB still relies on the SIA Topical Report SIR-99-040.

ACTION – NRC project manager and applicant's license renewal project manager to discuss submittal date via telephone.

Topic UFSAR Appendix 5A design basis for RCP flywheel integrity

Discussion:

The staff requested the applicant to discuss their UFSAR Appendix 5A design basis for RCP flywheel integrity. The staff agrees that the RTndt analysis for the flywheels in that appendix does not need to include a time-dependent neutron fluence-based $\Delta RTndt$ adjustment in the manner that they are included in the RTndt analyses for the reactor vessel beltline components (i.e. beltline base metals and weld components). However, USFAR Appendix 5A states that the SRP 5.4.1.1 acceptance basis is an 80°F difference basis between the RTndt value and the operating temperature (which according to the UFSAR Appendix, puts the minimum 120°F operating temperature for them). Contrary to this statement, the staff determined that the SRP 5.4.1.1 states (recommends) that the difference between the RTndt value and the operating temperature should be at least 100°F, which for full conformance with the SRP basis would dictate a minimum operating temperature of 140 °F for the RCP flywheels at Davis Besse. The UFSAR Section 5A also states that Section 3.1 of the UFSAR gives the 120 °F operating temperature basis for the flywheels, but the staff could not find any such basis in UFSAR Section 3.1. The staff further stated that SRP 5.4.1.1 on flywheel integrity (which the applicant uses as the UFSAR Appendix 5A basis) states that the RTndt values for the RCP flywheel plate will be based on actual drop-weight testing results; however, the applicant establish the RTndt value for the SA-533 flywheel plates materials using generic application of the RTndt values for their SA-533 plate materials for the RV beltline materials (pick 40°F as the highest value). The staff stated that this is a current licensing basis issue.

FENOC responded by stating that FENOC's intention was not to completely comply with SRP 5.4.1.1.

The staff suggested that FENOC look into this, not as a license renewal issue, but rather as a current licensing basis issue. The staff stated that no RAI will be issued.

Reactor Vessel Internal (RVI) components

Discussion:

The staff stated that the discrepancy between the applicant's Technical Specification 5.5.4 inspection requirements for its RVI vent valve discs and its plant-specific PWR Vessel Internals Program criteria are among one matter that needs to be discussed. The staff also stated that the adequacy of the AMRs for the RVI components will need to be discussed as well.

The applicant stated that it does not believe that a discrepancy exists between the Technical Specification 5.5.4 inspection requirements for its RVI vent valve discs and its plant-specific PWR Vessel Internals Program criteria that is based on MRP-227. The applicant also stated that the Technical Specifications requires the disc inspection each refueling outage versus MRP-227 that requires the inspection each 10-year interval. Therefore, MRP-227 inspection frequency is satisfied. However, this may require further discussion as the staff lead reviewer; Ganesh Cheruvenki was not in attendance.

The aging management review of the RVI was briefly discussed. The applicant suggested that a supplement could be submitted that would revise the aging management review for RVI and that it would be based on MRP-227 along with the guidance provided in NUREG-1801, Revision 2. The staff stated that the concerns related to the RVI would be discussed internally (to include Ganesh Cheruvenki) and get a response to the applicant at a later date.

There was no further discussion, and the call was concluded.

SUBJECT: Summary of Telephone Conference Call conducted on June 16, 2011

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PCooper
BHarris
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LICENSEE: FirstEnergy Nuclear Operating Company

FACILITY: Davis-Besse

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALL HELD ON NOVEMBER 9, 2011 BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND FIRSTENERGY NUCLEAR OPERATING COMPANY, CONCERNING REQUESTS FOR ADDITIONAL INFORMATION PERTAINING TO THE DAVIS-BESSE, LICENSE RENEWAL APPLICATION (TAC. NO. ME4640)

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of FirstEnergy Nuclear Operating Company (FENOC or the applicant) held a telephone conference call on November 9, 2011, to discuss and clarify the applicant's responses to the staff's requests for additional information (RAIs) concerning the Davis-Besse license renewal application.

Enclosure 1 provides a listing of the participants and Enclosure 2 contains a description of the staff concerns discussed with the applicant. A brief description on the status of the items is also included.

The applicant had an opportunity to comment on this summary.

Samuel Cuadrado de Jesús
License Renewal Branch, RPB1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Number:50-346

Enclosures:

1. List of Participants
2. List of Requests for Additional Information

cc w/encls: See next page

LICENSEE: FirstEnergy Nuclear Operating Company

FACILITY: Davis-Besse

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALL HELD ON NOVEMBER 9, 2011 BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND FIRSTENERGY NUCLEAR OPERATING COMPANY, CONCERNING REQUESTS FOR ADDITIONAL INFORMATION PERTAINING TO THE DAVIS-BESSE, LICENSE RENEWAL APPLICATION (TAC. NO. ME4640)

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of FirstEnergy Nuclear Operating Company (FENOC or the applicant) held a telephone conference call on November 9, 2011, to discuss and clarify the applicant's responses to the staff's requests for additional information (RAIs) concerning the Davis-Besse, license renewal application.

Enclosure 1 provides a listing of the participants and Enclosure 2 contains a description of the staff concerns discussed with the applicant. A brief description on the status of the items is also included.

The applicant had an opportunity to comment on this summary.

Samuel Cuadrado de Jesús
License Renewal Branch, RPB1
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SUMMARY OF TELEPHONE CONFERENCE CALL
DAVIS-BESSE
LICENSE RENEWAL APPLICATION

LIST OF PARTICIPANTS
NOVEMBER 9, 2011

PARTICIPANTS

AFFILIATIONS

Samuel Cuadrado de Jesús	U.S. Nuclear Regulatory Commission (NRC)
James Gavula	NRC
Cliff Custer	FirstEnergy Nuclear Operating Company (FENOC)
Steve Dort	FENOC
Allen McAllister	FENOC
Larry Hinkle	FENOC
Don Kosloff	FENOC

SUMMARY OF TELEPHONE CONFERENCE CALL

LICENSE RENEWAL APPLICATION

NOVEMBER 9, 2011

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of FirstEnergy Nuclear Operating Company (FENOC or the applicant) held a telephone conference call on Month Day, 2011, to discuss and clarify the following response to requests for additional information (RAIs) and new RAIs concerning the Davis-Besse license renewal application (LRA).

Response to RAI 2.3.3.18-4

Discussion:

The staff stated that in its response to RAI 2.3.3.18-4 dated October 21, 2011, the applicant stated that the “letdown coolers are in continuous service and not subject to cyclic loading, eddy current testing of tubes for managing cyclic loading is therefore not applicable.” However, the staff noted that in its August 17, 2011, response to an RAI, the applicant stated that the B&W report regarding the reliability of letdown coolers identified the cause of the recurring tube leaks as fatigue cracking likely initiated by flow-induced vibration.

The staff stated that while it agrees that the coolers may be in continuous service, there does not appear to be a technical basis for stating that the coolers are not subject to cyclic loading, based on the information previously provided by the applicant. The staff also stated that unless there is some previously undisclosed additional information, fatigue cracking due to flow-induced vibration appears to demonstrate that the letdown cooler tubes are subject to cyclic loading.

After discussions, the applicant agreed that the statement, “The coolers are in continuous service and not subject to cyclic loading...,” only considered thermal fatigue (i.e., low cycle fatigue). Since the coolers are subject to fatigue cracking due to flow-induced vibration (i.e., high cycle fatigue), the applicant agreed to delete or modify the statement. In addition, the applicant agreed to provide a supplemental response to RAI 2.3.3.18-4 to include an enhancement to the Closed Cooling Water Chemistry Program to ensure that component cooling water radiochemistry is sampled on a periodic basis to verify the integrity of the letdown coolers.

ACTION: FENOC to provide a supplemental response to RAI 2.3.3.18-4 to address the above issues.

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