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Subject: SUMMARY OF TELECON CALLS HELD ON FEBRUARY 10 AND 25, 2016, BETWEEN THE U.S. NRC AND DTE ELECTRIC COMPANY CONCERNING THE RESPONSE TO RAI 4.3.3-3a PERTAINING TO THE FERMI 2 LRA (TAC NO. MF4222)
Date: Tuesday, May 10, 2016 3:28:00 PM
Attachments: image001.png
Fermi 2 Telecon February 10 and February 25 2016 - Enclosure 1.docx
Fermi 2 Telecon February 10 and February 25 2016 - Enclosure 2.docx
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image004.emz
image005.png

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

LICENSEE: DTE Electric Company

FACILITY: Fermi 2

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALLS HELD ON FEBRUARY 10 AND FEBRUARY 25, 2016, BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND DTE ELECTRIC COMPANY CONCERNING THE RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION 4.3.3-3a PERTAINING TO THE FERMI 2 LICENSE RENEWAL APPLICATION (TAC NO. MF4222)

The U.S. Nuclear Regulatory Commission and representatives of DTE Electric Company (the applicant) held two telephone conference calls on February 10 and February 25, 2016, to discuss and clarify the applicant's response to request for additional information 4.3.3-3a concerning the Fermi 2 license renewal application.

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

The applicant had an opportunity to comment on this summary.

Daneira Meléndez-Colón, Project Manager
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-341

Enclosures:

1. List of Participants
2. Summary of Telephone Conference Calls

cc w/encl: Listserv

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*via email

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DATE	4/5/2016	3/29/2016	5/3/2016	5/10/2016	5/10/2016

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**TELEPHONE CONFERENCE CALLS
FERMI 2
LICENSE RENEWAL APPLICATION**

LIST OF PARTICIPANTS
FEBRUARY 10 AND FEBRUARY 25, 2016

PARTICIPANT

AFFILIATION

Daneira Meléndez-Colón

U.S. Nuclear Regulatory Commission (NRC)

Allen Hiser

NRC

Christopher Hovanec

NRC

Lynne Goodman

DTE Electric Company (DTE)

Kevin Lynn

DTE

Whitney Hemingway

DTE

SUMMARY OF TELEPHONE CONFERENCE CALLS
FERMI 2
LICENSE RENEWAL APPLICATION
FEBRUARY 10 AND FEBRUARY 25, 2016

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of DTE Electric Company (DTE or the applicant) held two telephone conference calls on February 10 and February 25, 2016, to discuss and clarify the applicant's response to request for additional information (RAI) 4.3.3-3a concerning the Fermi 2 license renewal application (LRA).

Background:

By letter dated January 22, 2016, the applicant provided its response to RAI 4.3.3-3a. In this letter, the applicant stated that there were six locations where average transient temperatures were used to calculate F_{en} factors. The F_{en} factors for five of the six locations were recalculated to become consistent with the guidance in NUREG/CR-6909. The remaining location (Core ΔP Nozzle) was already consistent with the guidance in NUREG/CR-6909. The feedwater nozzles were one of the five locations for which the F_{en} factor was recalculated. The feedwater nozzles have carbon steel, low alloy steel, and stainless steel locations subjected to EAF evaluation. The F_{en} factor for the stainless steel feedwater nozzle location was originally determined using average transient temperatures. However, not all of the transients associated with the stainless steel location are simple transients; therefore, calculating an average temperature for this location is not consistent with the guidance in NUREG/CR-6909. The re-evaluation of the stainless steel location uses the maximum design temperature. Additionally, all three locations (carbon steel, low alloy steel, and stainless steel locations) of the feedwater nozzles were re-evaluated to treat the hot standby transient and RCIC injection as unique transients. The CUF_{en} value for the stainless steel location was reduced from 6.37 to 5.55. The applicant's response also stated that since the CUF_{en} value still exceeds the limit of 1.0, after being recalculated, that it is expected that stress-based fatigue monitoring will be required for managing this location.

Based on the RAI response, the staff needed clarification regarding the general scope and application of the applicant's stress-based fatigue monitoring method. Given the magnitude of the CUF_{en} value for the stainless steel portion of the feedwater nozzles, the staff also sought clarification regarding assurance that the location would not enter the period of extended operation exceeding the limit of 1.0.

Discussion:

During a conference call held on February 10, 2016, the applicant and the staff discussed aspects of stress-based fatigue monitoring such as: magnitude of cycles, sequencing of cycles, and assumptions associated with the monitoring method. The timing for implementing the program was also discussed. The applicant stated that it has committed (Commitment No. 12d) to implementing stress-based fatigue monitoring no later than September 20, 2024. The implementation date for this commitment is six months prior to entering the period of extended operation, ensuring that the stainless steel portion of the feedwater nozzles will not enter the

period of extended operation exceeding the limit of 1.0. The applicant also stated that it had not yet selected a contractor to develop its stress-based fatigue monitoring method, although it had provided a general description of the method that will be used in the February 12, 2015, letter and revised the Fatigue Monitoring AMP to include the method.

During a conference call held on February 25, 2016, the applicant and the staff further discussed aspects of the applicant's stress-based fatigue monitoring method and its description provided in the February 12, 2015, letter. The staff stated that the description of the method was not included in the Fatigue Monitoring AMP or associated commitment. The applicant stated that it would include a general description of the monitoring method in the AMP, including the application of the recommendations of RIS 2008-30. The applicant and staff also discussed the availability of the applicant's stress-based fatigue monitoring methodology and application for auditing.

The applicant stated that it understood the staff need for additional information and that it will provide the information through a supplement to the RAI. The staff stated that a supplement to the RAI will be adequate.