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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](#)  
[image002.png](#)  
[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

<u>PARTICIPANT</u>	<u>AFFILIATION</u>
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  $\Delta P$  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.