



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

April 2, 2015

Mr. Vito Kaminskas  
Site Vice President - Nuclear Generation  
DTE Electric Company  
Fermi 2 - 280 OBA  
6400 North Dixie Highway  
Newport, MI 48166

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE  
FERMI 2 LICENSE RENEWAL APPLICATION – SET 31 (TAC NO. MF4222)

Dear Mr. Kaminskas:

By letter dated April 24, 2014, DTE Electric Company (DTE or the applicant) submitted an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54, to renew the operating license NPF-43 for Fermi 2, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review.

This request for additional information was discussed with Ms. Lynne Goodman, and a mutually agreeable date for the response is within 35 days from the date of this letter. If you have any questions, please contact me at 301-415-3301 or e-mail [Daneira.Melendez-Colon@nrc.gov](mailto:Daneira.Melendez-Colon@nrc.gov).

Sincerely,

*/RA/*

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

Docket No. 50-341

Enclosure:  
Request for Additional Information

cc w/encl: ListServ

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Site Vice President - Nuclear Generation  
DTE Electric Company  
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**ADAMS Accession No.:** ML15085A513

**\*concurred via e-mail**

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DATE	3/31/15	4/2/15	4/2/15	4/2/15	4/2/15

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**FERMI 2  
LICENSE RENEWAL APPLICATION  
REQUEST FOR ADDITIONAL INFORMATION SET 31  
(TAC NO. MF4222)**

**RAI B.1.2-2a**

Background:

License Renewal Application (LRA) Section B.1.2 states that the Bolting Integrity Program is an existing program, with enhancements, that will be consistent with Generic Aging Lessons Learned (GALL) Report Aging Management Program (AMP) XI.M18, "Bolting Integrity." In its response to Request for Additional Information (RAI) B.1.2-2, dated January 20, 2015, DTE stated, in part, the following:

Quarterly surveillance runs of the [residual heat removal service water] RHRSW, [emergency equipment service water] EESW, and [emergency diesel generator service water] EDGSW pumps are performed. The pump performance parameters are trended to determine if corrective actions are needed. Pump degradation during surveillance runs would lead to pump repair or refurbishment. During this maintenance, the associated bolting would be inspected, including the bolting threads. To ensure that loss of material in crevice locations that are not readily visible can be detected, the LRA will be revised to include these opportunistic inspections of the submerged bolting threads as part of the Bolting Integrity Program.

Issue:

GALL Report AMP XI.M18 recommends periodic inspections (at least once per refueling cycle) of closure bolting for signs of leakage to ensure the detection of age-related degradation due to loss of material and loss of preload. The staff notes that a submerged environment limits the ability to detect leakage of submerged bolted connections. Therefore, additional information is needed for the staff to understand how the Bolting Integrity Program will ensure the detection of loss of material and loss of preload, and adequate aging management of bolts in the RHRSW, EESW, and EDGSW systems submerged environment.

The Standard Review Plan for Review of License Renewal Applications for Nuclear Power Plants (SRP-LR) states that the AMP frequency of inspections may be linked to plant specific or industry wide operating experience and a discussion should provide justification that the frequency is adequate to detect the aging effects before there is a loss of structure and component (SC) intended function. The SRP-LR also states that the detection of aging effects should occur before there is a loss of SC intended function. The staff is concerned about the possibility that an opportunistic inspection approach may result in inspections not done frequently enough to detect degradation of the bolt thread area of the submerged bolts before there is a loss of intended function. Therefore, it is not clear how opportunistic inspections based on pump maintenance activities will be adequate to detect loss of material in the thread region of the submerged bolts before there is a loss of intended function.

ENCLOSURE

Request:

1. Provide the number of times (including year) that maintenance activities (e.g., pump repair or refurbishment) have been performed for the RHRSW, EESW, and EDGSW systems with submerged bolting.
2. Provide the technical basis as to how the proposed inspections will ensure that the aging effects for the threaded area of the submerged bolting will be timely detected and adequately managed before there is a loss of intended function.