



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

October 29, 2014

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

SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
FERMI 2 LICENSE RENEWAL APPLICATION – SET 3 (TAC NO. MF4222)

Dear Mr. Kaminskas:

By letter dated April 24, 2014, DTE Electric Company submitted an application pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) 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.

These requests for additional information were discussed with Ms. Lynne Goodman, and a mutually agreeable date for the response is within 30 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.

Sincerely,

/RA/

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

Docket No. 50-341

Enclosure:
Requests for Additional Information

cc w/encl: Listserv

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DISTRIBUTION: See next page

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NAME	*YEdmonds	DMeléndez-Colón	JDaily	YDíaz-Sanabria	DMeléndez-Colón
DATE	10/23/14	10/23/14	10/23/14	10/28/14	10/29/14

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SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
FERMI 2, LICENSE RENEWAL APPLICATION – SET 3 (TAC NO. MF4222)

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S. Sheldon, RIII

**FERMI 2
LICENSE RENEWAL APPLICATION
REQUESTS FOR ADDITIONAL INFORMATION SET 3
(TAC NO. MF4222)**

RAI 2.3.3.7-1

Background:

The staff reviewed the license renewal application (LRA) Section 2.3.3.7; drawings; Updated Final Safety Analysis Report (UFSAR), Section 9.5.1, "Fire Protection System," and Section 9A, which describes the Fire Protection Program for Fermi 2, and how it complies with the requirements of Title 10 of the *Code of Federal Regulations* (CFR) Section 50.48, "Fire Protection," and the guidelines of Appendix A to Branch Technical Position (BTP) Auxiliary Power Conversion System Branch (APCSB) 9.5-1.

Issue:

The following boundary drawing shows the following fire protection systems/components as not within the scope of license renewal (i.e., not colored in green):

<u>LRA Drawing</u>	<u>Systems/Components</u>	<u>Location</u>
LRA-M-4548	Halon and FM 200 Sub-Floor Zones	C5
LRA-M-4548	Halon and FM 200 Sub-Floor Zones	E2

Request:

Verify whether the fire protection systems/components listed above are within the scope of license renewal in accordance with 10 CFR 54.4(a) and whether they are subject to an aging management review (AMR) in accordance with 10 CFR 54.21(a)(1). If they are not within the scope of license renewal and are not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

RAI 2.3.3.7-2

Background:

LRA Section 2.3.3.7, on page 2.3-107, states that "... *The control center HVAC makeup filter and recirculating filter charcoal adsorber units are each provided with water spray protection supplied from the fire water system...*"

Issue:

The water spray fire protection system does not appear in drawings as being within the scope of license renewal and subject to an AMR.

ENCLOSURE

Request:

Verify whether the above water spray fire protection system is within the scope of license renewal in accordance with 10 CFR 54.4(a) and subject to an AMR in accordance with 10 CFR 54.21(a)(1). If the system is not within the scope of license renewal and not subject to an AMR, please provide justification for the exclusion.

RAI 2.3.3.7-3

Background:

The staff reviewed the LRA Section 2.3.3.7; drawings; UFSAR, Section 9.5.1, "Fire Protection System," and Section 9A, which describes the fire protection program for Fermi 2, and how it complies with the requirements of 10 CFR 50.48, and the guidelines of Appendix A to BTP APCS 9.5-1.

Issue:

Tables 2.3.3-7 and 3.3.2-7 of the LRA do not include the following fire protection components:

- general service water biocide injection system components
- fire hose stations, fire hose connections, hose racks
- pipe fittings, pipe supports, hangers, and couplings
- standpipe risers
- water spray nozzles
- floor drains for removal of fire water
- fuel storage tank for diesel fire pump
- turbine building roof smoke and heat vent housings

Request:

Verify whether the fire protection components listed above are within the scope of license renewal in accordance with 10 CFR 54.4(a) and whether they are subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are not within the scope of license renewal and are not subject to an AMR, please provide justification for the exclusion.

RAI 2.3.3.8-1

Background:

UFSAR Section 9.5.1.2.1, on page 9.5-5, states that "... *Automatic CO₂ extinguishing systems are provided for diesel generator rooms, SGTS [standby gas treatment system] charcoal filters, switchgear room and selected cable tray areas...*"

Issue:

The CO₂ extinguishing systems in SGTS charcoal filters and selected cable tray areas do not appear in drawings as being within the scope of license renewal and subject to an AMR.

Request:

Verify whether the above CO₂ extinguishing systems are within the scope of license renewal in accordance with 10 CFR 54.4(a) and subject to an AMR in accordance with 10 CFR 54.21(a)(1). If these systems are not within the scope of license renewal and not subject to an AMR, please provide justification for the exclusion.

RAI 2.3.3.8-2

Background:

The staff reviewed the LRA Section 2.3.3.8; drawings, UFSAR, Section 9.5.1, "Fire Protection System," and Section 9A, which describes the fire protection program for Fermi 2, and how it complies with the requirements of 10 CFR 50.48, "Fire Protection," and the guidelines of Appendix A to BTP APCSB 9.5-1.

Issue:

Tables 2.3.3-8 and 3.3.2-8 of the LRA do not include the following fire protection components:

- strainer and filter housing
- pipe fittings, supports, and couplings
- manually operated CO₂ hose stations

Request:

Please verify whether the fire protection components listed above are within the scope of license renewal in accordance with 10 CFR 54.4(a) and whether they are subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are not within the scope of license renewal and are not subject to an AMR, provide justification for the exclusion.

RAI 2.4.4-1

Background:

Section 2.4.4, "Bulk Commodities," of the LRA provides the scoping and screening results of various structure components within the scope of license renewal and subject to an AMR.

Issue:

LRA Table 2.4-4, includes fire barriers (doors; fire protection components, miscellaneous steel, including framing steel; penetration seals (end caps) and sleeves; manways, hatches, manhole covers and hatch covers; structural fire barriers; wall, ceiling, floor slabs, curbs, and dikes; fire stops; fire wrap; and penetration seals). However, scoping and screening results do not provide the type of fire barriers present in various fire areas of the plant.

In addition, Table 2.4-4 of the LRA does not include the following types of fire barriers or fire protection features:

- fire retardant coating for exposed structural steel
- solid metal cable tray covers
- radiant energy shields
- outdoor oil filled transformer fire barriers

Request:

1. Provide a summary of the list of buildings or structures where fire barriers are credited, and the specific types of barriers at these locations in Fermi 2 Fire Protection Program.

2. Verify whether the fire barriers or fire protection features listed above are within the scope of license renewal in accordance with 10 CFR 54.4(a) and whether they are subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are not within the scope of license renewal and are not subject to an AMR, please provide justification for the exclusion.