



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

May 6, 2015

Mr. Paul Fessler, Senior VP
and Chief Nuclear Officer
DTE Electric Company
Fermi 2 - 210 NOC
6400 North Dixie Highway
Newport, MI 48166

SUBJECT: FERMI, UNIT 2 - REQUEST FOR ADDITIONAL INFORMATION ASSOCIATED
WITH NEAR-TERM TASK FORCE RECOMMENDATION 2.1, SEISMIC
HAZARD AND SCREENING REPORT (TAC NO. MF3861)

Dear Mr. Fessler:

By letter dated March 31, 2014¹, to the U. S. Nuclear Regulatory Commission (NRC), DTE Electric Company (DTE, the licensee), submitted for NRC review the Fermi, Unit 2 (Fermi 2) Seismic Hazard and Screening Report (SHSR), Pursuant to Title 10 of the *Code of Federal Regulations* Part 50, Section 50.54(f), Response for Information Regarding Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident.

The NRC staff has reviewed the information provided for Fermi's SHSR and determined that additional information is needed to complete its review. By letter dated November 17, 2014², the staff issued a request for additional information (RAI) related to the dynamic material properties representing the conditions at the Fermi 2 site. By letter dated December 18, 2014³, DTE provided a response to the staff's RAI. The staff reviewed DTE's response and determined that some additional information is needed in order to perform its site response confirmatory analysis and to properly document its results in the staff assessment. As discussed with your staff on May 1, 2015, it was agreed that a response would be provided no later than June 5, 2015.

¹ Fermi 2 SHSR dated March 31, 2014, can be found under Agencywide Documents Access and Management System (ADAMS) Accession No. ML14090A326.

² The RAI dated November 17, 2014, can be found under ADAMS Accession No. ML14301A247.

³ The December 18, 2014, RAI response can be found under ADAMS Accession No. ML14353A149.

P. Fessler

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If you have any questions related to the enclosed RAIs or response date, please contact me at 301-415-1617 or via e-mail at Frankie.Vega@nrc.gov.

Sincerely,

Nicholas D. Francescon for

Frankie Vega, Project Manager
Hazards Management Branch
Japan Lessons-Learned Division
Office of Nuclear Reactor Regulation

Docket No. 50-341

Enclosure:
Request for Additional Information

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REQUEST FOR ADDITIONAL INFORMATION
NEAR-TERM TASK FORCE RECOMMENDATION 2.1
SEISMIC HAZARD AND SCREENING REPORT
FERMI, UNIT 2
DOCKET NO. 50-341

By letter dated March 31, 2014¹, to the U. S. Nuclear Regulatory Commission (NRC), DTE Electric Company (DTE, the licensee), submitted for NRC review the Fermi, Unit 2 (Fermi 2) Seismic Hazard and Screening Report (SHSR), Pursuant to Title 10 of the *Code of Federal Regulations* Part 50, Section 50.54(f) (hereafter referred to as the 50.54(f) letter), Response for Information Regarding Recommendation 2.1 of the Near-Term Task Force (NTTF) Review of Insights from the Fukushima Dai-ichi Accident.

By letter dated December 18, 2014², DTE provided a response to the staff's request for additional information. DTE provided additional information regarding the dynamic properties selected to represent site conditions. Specifically, DTE stated that the site response approach was revised by reducing the amount of damping in the profiles and by adding an additional profile to accommodate additional uncertainty in the depth to reference rock. The licensee also provided an updated foundation input response spectrum (FIRS) based on this updated information. The NRC staff has reviewed the information provided by DTE and has determined that additional information is needed to complete its site response confirmatory analysis and properly document its results in the staff assessment.

Consistent with the 50.54(f) letter and the SPID guidance³, please supplement the SHSR with the following information:

1. A table of specific damping and modulus reduction curves that correlates to geologic units or layers
2. Clarify if any of the layers were treated as linear. If the layers were treated as linear, please provide damping value assigned to those layers
3. Updated profile including the kappa values used in site response analysis
4. Clarify if the depth to hard rock was randomized. If so, please describe the randomization process used.
5. Clarify if Table 2 of the RAI response represents the thicknesses and velocities input into the site response analysis. If Table 2 does not include this information, please provide a table with this information.
6. Control point hazard curves at the Ground Motion Response Spectrum (GMRS) level and the GMRS itself.

¹ Fermi 2 SHSR dated March 31, 2014, can be found under Agencywide Documents Access and Management System (ADAMS) Accession No. ML14090A326.

² The December 18, 2014, RAI response can be found under ADAMS Accession No. ML14353A149.

³ The screening, prioritization, and implementation details (SPID) can be found under ADAMS Accession No. ML12333A170.

Enclosure

P. Fessler

- 2 -

If you have any questions related to the enclosed RAls or response date, please contact me at 301-415-1617 or via e-mail at Frankie.Vega@nrc.gov.

Sincerely,

/RA/

Frankie Vega, Project Manager
Hazards Management Branch
Japan Lessons-Learned Division
Office of Nuclear Reactor Regulation

Docket No. 50-341

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv

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