

## **NRR-PMDAPEm Resource**

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**From:** Wengert, Thomas  
**Sent:** Friday, February 28, 2014 10:30 AM  
**To:** 'Alan I Hassoun' (hassouna@dteenergy.com)  
**Subject:** Fermi 2 - Draft RAI Concerning Flood Hazard Reanalysis Report (TAC No. MF1101)  
**Attachments:** Fermi 2 R2.1 Draft RAI.PDF

Mr. Hassoun,

By letter dated March 8, 2013 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML13070A199) DTE Electric Company (DTE) submitted a Flood Hazard Reevaluation Report for Fermi Unit 2, in response to the March 12, 2012, letter from the Nuclear Regulatory Commission (NRC) to all power reactor licensees, "Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3, of the Near Term Task Force Review of Insights from the Fukushima Dai-Ichi Accident" (ADAMS Accession No. ML12053A340).

The NRC staff has reviewed your letter and determined that additional information is necessary for the staff to complete its evaluation, as described in the attached draft request for additional information (RAI). This RAI was initially sent to you via e-mail on February 14, 2014. As discussed previously, DTE is requested to provide its response to this RAI by March 16, 2014. Please contact me if you have any questions.

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Project Manager - Fermi 2  
USNRC  
NRR/DORL/LPL3-1  
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REQUEST FOR ADDITIONAL INFORMATION

FUKUSHIMA LESSONS LEARNED

FLOOD HAZARD REEVALUATION REPORT

FERMI 2

DOCKET NO. 50-341

**RAI No. 1 (Local Intense Precipitation)**

Please provide electronic versions of input files used for the HEC-RAS analysis in the flood hazard reevaluation report (FHRR).

**RAI No. 2 (Local Intense Precipitation)**

The Nuclear Regulatory Commission staff has observed use of various datums in the FHRR; these include New York Mean Tide 1935, IGLD85, NAVD88, and NGVD1929. In order to compare elevations and flood levels, and to assess the associated errors of conversion, the staff requests the following:

- a) Descriptions of the source of the surface elevations including vertical resolution, methods to incorporate elevation measurements (if any), and the level of the uncertainty of the various elevations in the onsite area in order to determine uncertainties associated with the onsite LIP flood level.
- b) Consistent description and conversion between the datums used in the FHRR for elevations and water levels (including both LIP and other sections of the FHRR).

**RAI No. 3 (Storm Surge)**

Provide the reference and/or source of the following equation (see FHRR Section 3.4, page 25 of 44) used to calculate the stability of a submerged breakwater:

$$(h'c / h) = (2.1 + 0.1 S) \exp (-0.14 N*s)$$