



10 CFR 51.45
10 CFR 52.77
10 CFR 52.79

March 30, 2010
NRC3-10-0015

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

- References:
- 1) Fermi 3
Docket No. 52-033
 - 2) Letter from Peter W. Smith (Detroit Edison) to USNRC, "Detroit Edison Company Response to NRC Request for Additional Information Letter No. 21," dated February 8, 2010.
 - 3) Letter from Jerry Hale (USNRC) to Jack M. Davis (Detroit Edison), "Request for Additional Information Letter No. 21 Related to the SRP Sections 2.3.1, 2.3.2, 2.3.3, 2.3.4 and 2.3.5 for the Fermi 3 Combined License Application," dated December 23, 2009.
 - 4) Letter from Peter W. Smith (Detroit Edison) to the USNRC, "Detroit Edison Company Response to NRC Requests for Additional Information Related to the Environmental Review," dated September 30, 2009.
 - 5) Letter from Peter W. Smith (Detroit Edison) to the USNRC, "Detroit Edison Company Response to NRC Requests for Additional Information Related to the Environmental Review," dated October 30, 2009.
 - 6) Letter from Peter W. Smith (Detroit Edison) to the USNRC, "Detroit Edison Company Response to NRC Requests for Additional Information Related to the Environmental Review," dated December 23, 2009.
 - 7) Letter from Peter W. Smith (Detroit Edison) to the USNRC, "Detroit Edison Company Response to NRC Requests for Additional Information Letter No. 2 Related to the Environmental Review," dated January 29, 2010.
 - 8) Letter from Peter W. Smith (Detroit Edison) to the USNRC, "Detroit Edison Company Response to NRC Requests for Additional Information Letter No. 2 Related to the Environmental Review," dated February 15, 2010.
 - 9) Letter from Peter W. Smith (Detroit Edison) to the USNRC, "Detroit Edison Company Application for a Combined License for Fermi 3 Update," dated March 24, 2010.

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Subject: Detroit Edison Company Response to NRC Request for Additional Information Letter No. 21 Supplemental Response

In Reference 2, Detroit Edison provided the responses to the NRC's request for additional information to support the review of certain portions of the Fermi 3 Combined License Application (COLA) contained in Reference 3. In the response to RAI 02.03.04-3, Detroit Edison concluded that it was appropriate to update the evaluation of meteorological data, recalculate the joint frequency distributions (JFDs), and recalculate the dispersion estimates (X/Qs). Preliminary evaluations indicated that the impact of this recalculation would continue to remain bounded by the ESBWR DCD analyses. Detroit Edison recognized that recalculation of the JFDs and X/Qs would have significant impact on several sections of the Final Safety Analysis Report (FSAR), the ER (ER), and the responses to requests for additional information (RAIs) from the NRC staff's review of the FSAR and ER. Accordingly, in Reference 2, Detroit Edison stated that it expected to supplement the response to RAI 02.03.04-3 and provide updated to the affected information in the Fermi 3 COLA, either in conjunction with the next revision of the Fermi 3 COLA planned for submittal by March 25, 2010 or, alternately, as a supplemental response to RAI 02.03.04-3. As it became impractical to complete the supporting analysis in time for incorporation in the COLA revision, Detroit Edison elected to provide a supplemental response to RAI 02.03.04-3. Although Detroit Edison proposed to provide the supplemental response to RAI 02.03.04-3 by March, 25, 2010, the scope of the technical work and the necessary validation delayed this submission. The supplemental response to RAI 02.03.04-3, and the associated updates to FSAR Rev. 2 and ER Rev. 1, submitted in Reference 9, are provided in Attachment 1 of this letter.

In its response to RAI 02.03.03-1 submitted in Reference 2, Detroit Edison stated that it was reviewing feedback from the NRC Staff regarding a response to the related ER RAI AQ6.4-1 submitted in Reference 6. The feedback from the NRC staff was provided to Detroit Edison via an email dated January 26, 2010 (ML100500226). A supplemental response to RAI 02.03.03-1 and the markup to affected portions of the Fermi 3 FSAR, Rev. 2 are provided in Attachment 2 of this letter. A supplemental response to ER RAI AQ6.4-1 and the markups to the affected portions of the Fermi 3 ER, Rev. 1 are provided in Attachment 3 of this letter.

In addition, this letter provides revised responses to eight RAIs associated with the NRC's review of the ER previously submitted in References 4 through 8. Detroit Edison is updating these RAI responses as a result of impacts associated with the supplemental response to RAI 02.03.04-3. This includes the supplemental responses to ER RAI AQ7.1-1 and HH5.4.4-1 identified in Reference 8. The revised responses to these seven RAIs associated with the NRC's review of the ER are provided in Attachments 5 through 11.

The responses to RAI 02.03.03-1, 02.03.04-4, AC7.2-1 and AQ2.7-3 contain electronic files submitted on CD as separate enclosures.

The file format and names on the enclosed CDs do not comply with the requirements for electronic submission in NRC Guidance Document, "Guidance for Electronic Submissions to the NRC," dated June 25, 2009; the files are not ".pdf" formatted. The NRC Staff requested the files be submitted in their native formats required by the software in which they are utilized to support review of the FSAR.

If you have any questions, or need additional information, please contact me at (313) 235-3341.

I state under penalty of perjury that the foregoing is true and correct. Executed on the 30th day of March 2010.

Sincerely,



Peter W. Smith, Director
Nuclear Development – Licensing and Engineering
Detroit Edison Company

- Attachments:
- 1) Response to RAI Letter No. 21 (Question No. 02.03.04-3)
 - 2) Response to RAI Letter No. 21 (Question No. 02.03.03-1)
 - 3) Response to ER RAI (RAI No. AQ6.4-1)
 - 4) Response to RAI Letter No. 21 (Question No. 02.03.04-4)
 - 5) Response to ER RAI (RAI No. AC7.1-1)
 - 6) Response to ER RAI (RAI No. AC7.2-1)
 - 7) Response to ER RAI (RAI No. AC7.2-2)
 - 8) Response to ER RAI (RAI No. AC7.3-1)
 - 9) Response to ER RAI (RAI No. AQ2.7-3)
 - 10) Response to ER RAI (RAI No. HH5.4.3-3)
 - 11) Response to ER RAI (RAI No. HH5.4.4-1)

cc: Jerry Hale, NRC Fermi 3 Project Manager (w/o attachments, w CDs for RAI 02.03.04-4 and 02.03.04-4)
Chandu Patel, NRC Fermi 3 Project Manager (w/o attachments)
Ilka Berrios, NRC Fermi 3 Project Manager (w/o attachments)
Bruce Olson, NRC Fermi 3 Environmental Project Manager (w/o attachments, w CDs for ER RAI AC7.2-1 and AQ2.7-3)
Fermi 2 Resident Inspector (w/o attachments)
NRC Region III Regional Administrator (w/o attachments)
NRC Region II Regional Administrator (w/o attachments)
Supervisor, Electric Operators, Michigan Public Service Commission (w/o attachments)
Michigan Department of Environmental Quality
Radiological Protection and Medical Waste Section (w/o attachments)