

December 14, 2009

Mr. Jack M. Davis
Senior Vice President and Chief Nuclear Officer
Detroit Edison Company
Fermi 2 – 210 NOC
6400 North Dixie Highway
Newport, MI 48166

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 20 RELATED TO
THE SRP SECTION 3.5.1.5 AND 3.5.1.6 FOR THE FERMI 3 COMBINED
LICENSE APPLICATION

Dear Mr. Davis:

By letter dated September 18, 2008, Detroit Edison Company (Detroit Edison) submitted for approval a combined license application pursuant to 10 CFR Part 52. The U.S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter. To support the review schedule, you are requested to respond within 45 days of the date of this letter. If changes are needed to the safety analysis report, the staff requests that the RAI response include the proposed wording changes.

If you have any questions or comments concerning this matter, I can be reached at 301-415-3179 or by e-mail at ilka.berrios@nrc.gov.

Sincerely,

/RA/

Ilka T. Berrios, Project Manager
ESBWR/ABWR Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 052-033

eRAI Tracking Nos. 4096 and 4097

Enclosure:
Request for Additional Information

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Senior Vice President and Chief Nuclear Officer
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THE SRP SECTIONS 3.5.1.5 AND 3.5.1.6 FOR THE FERMI 3 COMBINED
LICENSE APPLICATION

Dear Mr. Davis:

By letter dated September 18, 2008, Detroit Edison Company (Detroit Edison) submitted for approval a combined license application pursuant to 10 CFR Part 52. The U.S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter. To support the review schedule, you are requested to respond within 45 days of the date of this letter. If changes are needed to the safety analysis report, the staff requests that the RAI response include the proposed wording changes.

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Docket Nos. 052-033
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Enclosure:
Request for Additional Information

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DATE	12/03/09	12/02/09	12/06/09	12/06/09

*Approval captured electronically in the electronic RAI system.

Request for Additional Information No. 4096

Fermi Unit 3

Detroit Edison

Docket No. 52-033

SRP Section: 03.05.01.05 - Site Proximity Missiles (Except Aircraft)

Application Section: 3.5.1.5

RAI 03.05.01.05-1

RG 1.206 and NUREG-0800 Section 3.5.1.5 provides guidance regarding the information that is needed to ensure potential hazards in the site vicinity are identified and evaluated to meet the siting criteria in 10 CFR 100.20 and 10 CFR 100.21. A postulated failure of a turbine from Fermi Unit 2 could result in a missile representing an external hazard to the safe operation of Fermi Unit 3, a scenario that has not been addressed in the COL application, Part 2, FSAR for Fermi 3. Provide a discussion on the impact a potential missile from Unit 2 turbine would have on Unit 3.

Request for Additional Information No. 4097

Fermi Unit 3
Detroit Edison
Docket No. 52-033
SRP Section: 03.05.01.06 - Aircraft Hazards
Application Section: 3.5.1.6

RAI 03.05.01.06-1

RG 1.206 and NUREG-0800 Section 3.5.1.5 provides guidance regarding the information that is needed to ensure potential hazards in the site vicinity are identified and evaluated to meet the siting criteria in 10 CFR 100.20 and 10 CFR 100.21. In Fermi 3 COL FSAR, Section 2.2.3.1.3.1, the applicant presented the aircraft impact probability of 2.3×10^{-7} per year from the Mills Field Airport. No details regarding input data and assumptions were presented to support the analysis in calculating the aircraft impact frequency for Mills Field Airport and Detroit Metropolitan Wayne County Airport. Provide the data and assumptions (i.e., effective area of plant, in-flight crash probability, annual flight operations projected to the end life operational period of the plant) used for Airports and Airways analyses. Also provide the basis for the use of effective area of 0.030 sq mi and estimated average number of flights of 60179 per year for the airways.