

August 31, 2011

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. 66 RELATED TO
SECTIONS 2.5.2 AND 13.06 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 Title 10 of the *Code of Federal Regulations* (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 30 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 301-415-8148 or by e-mail at jerry.hale@nrc.gov.

Sincerely,

/RA/

Jerry Hale, Project Manager
BWR Projects Branch
Division of New Reactor Licensing
Office of New Reactors

Docket No. 052-033

eRAI Tracking Nos. 5978 and 5992

Enclosure:
Request for Additional Information

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Senior Vice President and Chief Nuclear Officer
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Request for Additional Information

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NRO-002

OFFICE	NRO/NGE1	NGE1/LA	NSIR/RSRLB	OGC	NRO/RGS1	NGE1/PM
NAME	A. Muñiz	S. Green-bha for:	B. Schnetzler	M. Carpentier	C. Cook	J. Hale
DATE	8/31/11	8/30/11	8/18/11	8/23/11	8/18/11	8/31/11

***Approval captured electronically in the electronic RAI system.**

OFFICIAL RECORD COPY

Request for Additional Information No. 5978

Fermi Unit 3
Detroit Edison
Docket No. 52-033
SRP Section: 13.06.01 - Physical Security - Combined License
Application Section: NUREG-0800

Question: 13.06.01-55

Safeguards Contingency Plan (SCP), section 5.9 and Appendix D: In the SCP, section 5.9 has been removed from this COL application. Appendix D of this application does not contain the same information as the current Fermi 2 operating Physical Security Plan (PSP) Revision 10. If this PSP is to replace the future PSP, containing both Fermi Units 2 and 3:

1. Explain the removal of section 5.9;
2. Explain the change of language in Appendix D;
3. What consideration of process was used to remove and change the language of these two sections;
4. What analysis was performed to include the Fermi 3 protective strategy that these items can be removed?

(U) Regulatory Basis: Title 10 CFR 52.6, Completeness and accuracy of information, requires information provided "shall be complete and accurate in all material respects." Subpart B of Title 10 CFR (10 CFR) 52, § 52.79(a)(35)(i) and (ii) requires that information submitted for combined license (COL) include how the applicant will meet the requirements of 10 CFR 73 and descriptions of implementation of the physical security plan. 10 CFR 52.17(a)(1)(x) Information demonstrating that site characteristics are such that adequate security plans and measures can be developed.

Request for Additional Information No. 5992

SRP Section: 02.05.02 - Vibratory Ground Motion
Application Section: 2.5.2

Question: 02.05.02-16

FSAR Section 2.5.2.5 discusses the site response calculations performed for the Fermi 3 site. In order for the staff to complete its review of this section following guidance in NUREG-0800, Standard Review Plan, Chapter 2.5.2, "Vibratory Ground Motion," and Regulatory Guide (RG) 1.208, "A Performance-Based Approach to Define the Site-Specific Earthquake Ground Motion", please provide the following information electronically:

1. All S-wave velocity (V_s) data used to develop the median V_s values shown in FSAR Table 2.5.2-220 (Sheets 1-4).
2. Shear modulus reduction and damping curve values used to represent the lean concrete.
3. Target response spectra used as input to the site response calculations (i.e., high-and low-frequency 10^{-4} and 10^{-5} DE spectra shown in FSAR Figures 2.5.2-247 and 2.5.2-248).
4. High- and low-frequency 10^{-4} and 10^{-5} RE spectra and the 10^{-4} and 10^{-5} smoothed rock UHRS.
5. Amplification functions shown in FSAR Figures 2.5.2-270, 2.5.2-273, and 2.5.2-274.
6. Amplification functions shown in FSAR Figures 3.7.1-209, 3.7.1-210, and 3.7.1-211 (from Attachment 3 to NRC3-11-0020 – COLA Markups Incorporating the Site-Specific SSI Analysis and Response to RAI 02.05.04-38).