

January 26, 2012

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. 71 RELATED TO  
CHAPTER 2.0 FOR THE FERMIL 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](mailto:jerry.hale@nrc.gov).

Sincerely,

/RA/

Jerry Hale, Project Manager  
Licensing Branch 3  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 052-033

eRAI Tracking No. 6292

Enclosure:  
Request for Additional Information

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| OFFICE | LB3/LA   | OGC           | RGS2     | LB3/PM  |
| NAME   | S. Green | M. Carpentier | R. Karas | J. Hale |
| DATE   | 12/26/12 | 1/24/12       | 1/19/12  | 1/26/12 |

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

OFFICIAL RECORD COPY

**Request for Additional Information No. 6292 Revision 3**

Fermi Unit 3

Detroit Edison

Docket No. 52-033

SRP Section: 02.05.04 - Stability of Subsurface Materials and Foundations

Application Section: 2.5.4

Question: 02.05.04-40

10 CFR 100.23 (d) (4) requires that "Each applicant shall evaluate all siting factors and potential causes of failure, such as the physical properties of the materials underlying the site ...," and Regulatory Guide 1.206 Section C.I.2.5.4.5, "Excavations and Backfill", states that the applicant should discuss "sources and quantities of backfill and borrow, including a description of exploration and laboratory studies and the static and dynamic engineering properties of these materials. In accordance with 10 CFR 100.23 (d) (4) and Regulatory Guide 1.206 section C.I.2.5.4.5, as a replacement for the proposed License Condition, please provide the Inspections, Tests, and Analyses and Acceptance Criteria (ITAAC) that will be used to ensure that the concrete fill placed underneath any Category I structures to a thickness greater than 5 feet, meet the design, construction and testing of applicable ACI standards.