

November 1, 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. 68 RELATED TO  
SECTION 10.4.7 FOR THE FERMIS 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 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 301-415-3104 or by e-mail at michael.eudy@nrc.gov.

Sincerely,

/RA/

Michael Eudy, Project Manager  
BWR Projects Branch  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 052-033

eRAI Tracking No. 6071

Enclosure:  
Request for Additional Information

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Request for Additional Information

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

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## **Request for Additional Information No. 6071 Revision 3**

Fermi Unit 3

Detroit Edison

Docket No. 52-033

SRP Section: 10.04.07 - Condensate and Feedwater System

Application Section: 10.4.7

### **Question 10.04.07-1:**

In the applicant's August 5, 2011 supplemental response to RAI Question 12.02-7, the applicant proposed to make changes to FSAR Section 10.4.7, which currently incorporates by reference Section 10.4.7 of the ESBWR DCD with no departures or supplements. The proposed change would add, as supplemental information, the following statement: "The C&FS components can accommodate 100% feedwater flow to support a cascading feedwater configuration."

The staff has reviewed the relevant information in the ESBWR DCD. The staff found that the ESBWR DCD design and the BOP heat balance are based on the C&FS operating in a pumped forward configuration. The DCD does not directly identify a system configuration to route all feedwater flow through the CPS as stated in the RAI response, nor is it indicated in the DCD that pipe analysis (pipe hazards, transients, anticipated operational occurrences) was performed based on cascade operation with higher flows through the condensate system.

The staff requests for the applicant to clarify whether or not the proposed change to the FSAR constitutes a departure, and to provide adequate justification supporting the conclusion. If the proposed change is a departure, then the applicant is requested to provide the following information in the Departures Report and the FSAR:

1. If it is determined that the change is a departure requiring NRC review and approval in accordance with 10 CFR 52.63 Item 5(b)(2), then provide appropriate justification and supporting information, or;
2. If it is determined that NRC review and approval is not required for the change, then provide the bases for the determination that the departure does not require NRC review and approval in accordance with 10 CFR 52.63 Item 5(b)(2). In addition, the applicant should provide the basis and appropriate justification for its determination.