

October 27, 2010

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. 45 RELATED TO  
THE SRP SECTION 03.09.06 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 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  
BWR Projects Branch  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 052-033

eRAI Tracking Nos. 5125

Enclosure:  
Request for Additional Information

October 27, 2010

Mr. Jack M. Davis  
Senior Vice President and Chief Nuclear Officer  
Detroit Edison Company  
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THE SRP SECTION 03.09.06 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 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).

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Jerry Hale, Project Manager  
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Docket Nos. 052-033  
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Enclosure:  
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. 5125 Revision 2**

SRP Section: 03.09.06 - Functional Design Qualification and In-service Testing Programs for Pumps, Valves, and Dynamic Restraints

03.09.06-1

Section C.IV.4 in Regulatory Guide 1.206 discusses the requirement in 10 CFR 52.79(a) for descriptions of operational programs that need to be included in the FSAR for a COL application to allow a reasonable assurance finding of acceptability. In particular, a COL applicant should fully describe the in-service testing (IST) program as defined in SECY 05-197 (accepted in an SRM dated February 22, 2006). Subsection ISTC-5260, "Explosively Actuated Valves," in the *ASME Code for Operation and Maintenance of Nuclear Power Plants* (OM Code) specifies that at least 20 percent of the charges in explosively actuated (squib) valves shall be fired and replaced at least once every 2 years. In light of the updated design and safety significance of squib valves in new reactors, the need for improved surveillance activities for squib valves is being considered by the nuclear industry, ASME, the United States, and international nuclear regulators. The NRC staff requests that Detroit Edison describe its plans for addressing the surveillance of squib valves that will provide reasonable assurance of the operational readiness of those valves to perform their safety functions in support of the Fermi 3 COL application.