

PMFermiCOLPEm Resource

From: Eudy, Michael
Sent: Wednesday, July 27, 2011 1:44 PM
To: Nicholas A Latzy
Cc: FermiCOL Resource; Muniz, Adrian
Subject: Fermi RAI Letter #64 (courtesy copy)
Attachments: ML112081355.pdf

Importance: High

Nick,

Please see the attached courtesy copy of Fermi RAI Letter #64 dated 7/27/11. In addition, please note that your response due date is 8/12/11. Please let me know if you have any questions.

Michael A. Eudy - Project Manager
U.S. Nuclear Regulatory Commission
NRO/DNRL/NGE1&2
301-415-3104

Hearing Identifier: Fermi_COL_Public
Email Number: 867

Mail Envelope Properties (9E28710E0B702149AEC66397286364408C4D1E9539)

Subject: Fermi RAI Letter #64 (courtesy copy)
Sent Date: 7/27/2011 1:43:48 PM
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From: Eudy, Michael

Created By: Michael.Eudy@nrc.gov

Recipients:
"FermiCOL Resource" <FermiCOL.Resource@nrc.gov>
Tracking Status: None
"Muniz, Adrian" <Adrian.Muniz@nrc.gov>
Tracking Status: None
"Nicholas A Latzy" <latzyn@dteenergy.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

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MESSAGE	330	7/27/2011 1:43:50 PM
ML112081355.pdf	91577	

Options
Priority: High
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

July 27, 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. 64 RELATED TO
SECTION 9.2.4 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 by August 12, 2011. 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. 5905

Enclosure:
Request for Additional Information

July 27, 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

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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. 5905

Enclosure:
Request for Additional Information

Distribution:

PUBLIC BWR R/F SGreen, NRO MCarpentier, OGC
RidsNroDsraSbpb RidsNroDnrlNge2 A Muñiz, NRO
ADAMS Accession No. ML112081355 NRO-002

OFFICE	NRO/DNRL/BWR:PM	NRO/DNRL/BWR:LA	OGC	NRO/DNRL/BWR:PM
NAME	A. Muñiz	S. Green (BHA for)	M. Carpentier	M. Eudy
DATE	7/20/11	7/26/11	7/19/11	7/26/11

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Request for Additional Information No. 5905 Revision 3

7/26/2011

Fermi Unit 3
Detroit Edison
Docket No. 52-033
SRP Section: 09.02.04 - Potable and Sanitary Water Systems
Application Section: 9.2.4

Question: 09.02.04-1

10 CFR 50 Appendix A, Criterion 2 states that structures, systems, and component (SSCs) important to safety shall be designed to withstand the effects of natural phenomena such as earthquakes and floods.

10 CFR 50 Appendix A, Criterion 4 states that SSCs important to safety shall be designed to accommodate the effects of and to be compatible with the environmental conditions associated with normal operations, maintenance, testing, and postulated accidents.

ESBWR Design Control Document (DCD) Revision 9, Table 3.2-1, "Classification Summary," describes the potable water and sanitary waste system (U42) as being seismic category NS and located in the reactor building, service building, control building, electrical building, outdoors onsite, turbine building, and any other location.

ESBWR DCD Revision 9, Section 3.4.1 "Flood Protection," does not specifically account for or credit the flooding analysis including the U42 system.

ESBWR DCD Revision 9, Section 9.2.4, "Potable and Sanitary Water System," describes the U42 system as conceptual design and will be replaced with site-specific design information in the COLA FSAR.

Fermi 3 COL FSAR, Revision 3, Section 3.4, "Water Level (Flood) Design," states the there are no departures or supplements.

Fermi 3 COL FSAR, Revision 3, Section 9.2.4, "Potable and Sanitary Water System," describes the potable water system (PWS) and sanitary water discharge system (SWDS) and that failure of the system does not compromise any safety-related equipment or component and does not prevent safe shutdown of the plant. In addition, Table 9.2-203, "Potable Water System Component Design Characteristics (CDI)," states that the potable water storage tank is 75.7 m³ (20,000 gallons). Specifically, the applicant should address in the COL FSAR the following with respect to the potable and sanitary water system:

1. The exact location of the potable water storage tank with respect to building or yard location.
2. Discussion of the potable water storage tank and any bounding flooding analysis in Sections 3.4 and 9.2.4 of the COL FSAR and any effects on safety related SSCs. If the tank is located in the yard, discuss the site grading around the tank and direction of water away from safety related SSCs.

3. Discussion of this potable water storage tank and any bounding flooding analysis in Sections 3.4 and 9.2.4 of the COL FSAR and any effects on the non-safety related SSCs that are designated as "Regulatory Treatment of Nonsafety-Related Systems" (RTNSS) SSCs. If the tank is located in the yard, discuss the site grading around the tank and direction of water away from RTNSS SSCs.
4. Discussion in Section 9.2.4 of the PWS and SWDS, specifically the potable water storage tank, related to GDC 2.
5. Discussion in Section 9.2.4 of the PWS and SWDS, specifically the potable water storage tank, related to GDC 4 as it related to discharging fluids which may result from PWS and SWDS equipment failures.