PMFermiCOLPEm Resource

From: Eudy, Michael
Sent: Tuesday, July 19, 2011 1:25 PM
To: Nicholas A Latzy
Cc: FermiCOL Resource; Muniz, Adrian; Wheeler, Larry; Lee, Samuel; Segala, John
Subject: Draft FERMI Chp 9 RAI
Attachments: RAI 5905.doc

Importance: High

Nicholas,

Per my phone message, here is a new Draft RAI for Chapter 9 from section 9.2.4. Please review and advise me as to when you would like to set up a technical telecom to discuss with NRC staff before we formally issue this RAI.

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Hearing Identifier: Fermi_COL_Public
Email Number: 845

Mail Envelope Properties (9E28710E0B702149AEC66397286364408C4D1814A0)

Subject: Draft FERMI Chp 9 RAI
Sent Date: 7/19/2011 1:25:12 PM
Received Date: 7/19/2011 1:25:14 PM
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Files	**Size**	**Date & Time**
MESSAGE	370	7/19/2011 1:25:14 PM
RAI 5905.doc	33274	

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

Request for Additional Information No. 5905 Revision 0

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

QUESTIONS for Balance of Plant Branch 2 (ESBWR/ABWR) (SBPB)

09.02.04-***

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 Rreatment 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.