

NRR-DMPSPEm Resource

From: Goetz, Sujata
Sent: Monday, January 29, 2018 8:55 AM
To: Jason R Haas
Subject: Fermi 2 LAR to Revise TS to Eliminate MSLRM Reactor Trip and PCIS Group 1 Isolation Functions
Attachments: 25 Jan DORL RAI .docx

Dear Mr. Hass:

By letter dated August 24, 2017, as supplemented by letter dated October 18, 2017 (Agencywide Documents Access and Management System Accession Number ML17237A176 and ML17298A185), DTE Electric Company (DTE), the licensee, submitted a license amendment request to revise the Fermi 2 technical specifications (TS). Specifically, DTE requested to:

- Adopt the alternative source term assumptions and methodology into the control rod drop accident radiological consequence analysis,
- Eliminate the main steam line radiation monitor (MSLRM) functions for initiating a reactor protection system automatic reactor trip,
- Eliminate the MSLRM functions for initiating the associated (Group 1) primary containment isolation system isolation, which includes automatic closure of the main steam isolation valves and main steam line drain valves,
- Add two new TS limiting conditions for operation 3.3.7.2 and 3.3.7.3 for the mechanical vacuum pump and gland seal exhauster trip instrumentation.

The Nuclear Regulatory Commission (NRC) staff is reviewing the submittal and has determined that additional information is needed to complete its review. Attached, please find the request for additional information (RAI).

A draft RAI was previously transmitted to you by email dated January 22, 2018. At your request, a clarification call was held on January 25, 2018, to clarify the NRC staff's request. As a result of the call, the NRC staff has revised the wording to make the request more clear. A response is requested within 30 days from the date of this email.

The NRC staff considers that timely responses to RAIs help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of staff resources. If circumstances result in the need to revise the requested response date of March 1, 2018 please contact me at (301) 415-8004.

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REQUEST FOR ADDITIONAL INFORMATION
FERMI 2
FOR A LICENSE AMENDMENT REQUEST TO REVISE TECHNICAL SPECIFICATIONS TO
ELIMINATE MAIN STEAM LINE RADIATION MONITOR REACTOR TRIP AND PRIMARY
CONTAINMENT ISOLATION SYSTEM GROUP 1 ISOLATION FUNCTIONS
DOCKET NUMBER 50-341

In the letter dated August 24, 2017, the licensee stated on page 13:

As previously indicated, the updated analysis considers potential forced release via the SJAEs [steam jet air ejectors], MVPs [mechanical vacuum pumps], and the GSEs [gland seal exhausters]. The results of the analysis of these release paths demonstrate that, in addition to the existing credited trip of the MVPs, a new automatic trip of the GSEs is also required to ensure the calculated radiological consequences comply with 10 CFR 50.67 limits for onsite personnel and offsite public exposures.

Please provide information requested below so the NRC staff can perform an independent confirmation of the calculations provided for Fermi 2.

ARCB RAI-1

For each forced pathway (SJAEs, MVPs, and GSEs), provide a detailed description of the analysis performed with enough detail to allow the NRC staff to perform confirmation calculations. Include all relevant information such as the timing of the MVP and GSE trips, assumed flow rates, and volumes assumed in the analysis. Alternatively, the RADTRAD files for all three forced pathways may be provided for the NRC staff's review.

ARCB-RAI-2

For the main condenser pathway and the SJAE pathway, provide a detailed description of the analysis performed with enough detail to allow the NRC staff to perform confirmation calculations. Include all relevant information such as number of control rods in the core, and the assumed flow rates, and volumes assumed in the analysis. Alternately, the RADTRAD files for these pathways may be provided for the NRC staff's review.

ARCB-RAI-3

Discuss any correction factors applied in the analysis and explain why they are appropriate for Fermi 2.