

## **NRR-DMPSPeM Resource**

---

**From:** Goetz, Sujata  
**Sent:** Monday, January 22, 2018 2:46 PM  
**To:** Jason R Haas  
**Subject:** Fermi RAI for LAR regarding TS to Eliminate Steam Line Radiation  
**Attachments:** RAI.docx

Mr. Haas,

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 staff is reviewing the submittal and has determined that additional information as detailed in the attachment to this email is needed to complete its review. Please let me know if you would like to schedule a clarification call. The response to this RAI is due to the NRC by February 22, 2018.

**Sujata Goetz**  
**Project Manager, Fermi, Unit 2**

**Nuclear Regulatory Commission**  
**11555 Rockville Pike**  
**Office of the Nuclear Reactor Regulation**  
**NRC/NRR/DORL/LPL3**  
**Office O8F2**  
**Mailroom O8-B1A**  
**Rockville, MD 20852-2738**  
**Washington, DC 20555-0001**

**(o) 301.415.8004**  
**(f) 301.415.3313**

**Hearing Identifier:** NRR\_DMPS  
**Email Number:** 115

**Mail Envelope Properties** (Sujata.Goetz@nrc.gov20180122144500)

**Subject:** Fermi RAI for LAR regarding TS to Eliminate Steam Line Radiation  
**Sent Date:** 1/22/2018 2:45:34 PM  
**Received Date:** 1/22/2018 2:45:00 PM  
**From:** Goetz, Sujata

**Created By:** Sujata.Goetz@nrc.gov

**Recipients:**  
"Jason R Haas" <haasj@dteenergy.com>  
Tracking Status: None

**Post Office:**

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	1648	1/22/2018 2:45:00 PM
RAI.docx	24018	

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

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.

However, the license amendment request does not provide enough information for the NRC staff to accurately perform an independent confirmation calculation of these forced pathways.

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.