

NRR-PMDAPem Resource

From: Wengert, Thomas
Sent: Thursday, August 18, 2016 9:05 AM
To: Shaw, Jim D.; Van Der Kamp, David W.
Cc: Anderson, Shaun; Wang, Alan; Woodyatt, Diana
Subject: Cooper Nuclear Station - Request for Additional Information Regarding TS Section 2.0, "Safety Limits" (CAC No. MF7605)

By letter dated April 21, 2016 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16120A370), Nebraska Public Power District (NPPD, the licensee) submitted a license amendment request (LAR) to modify Technical Specification (TS) Section 2.0, "Safety Limits." The proposed changes would revise the two recirculation loop and the single recirculation loop Safety Limit Minimum Critical Power Ratio (SLMCPR) values to reflect the results of a cycle-specific calculation. The NRC staff has reviewed the LAR and has determined that the following additional information is required to complete its review of the amendment request:

Request for Additional Information (RAI)

- 1) Enclosure 1, "GNF Additional Information Regarding the Requested Changes to the Technical Specification SLMCPR- Cooper Nuclear Station Cycle 30," to the LAR contained the relevant analysis methodologies used by GNF to perform the cycle-specific SLMCPR analysis. The GNF report stated the following methodologies were used to perform this analysis:
 - NEDE-24011-P-A, "General Electric Standard Application for Reactor Fuel (GESTAR II)" (Reference 1)
 - NEDC-32601P-A, "Methodology and Uncertainties for Safety Limit MCPRE Evaluations," August 1999. (Reference 2)
 - NEDE-10958-PA, "General Electric Thermal Analysis Basis Data, Correlation and Design Application," January 1977. (Reference 3)
 - NEDC-32505P-A, "R-Factor Calculation Method for GE11, GE12 and GE13 Fuel," Revision 1, July 1999. (Reference 4)

The April 21, 2016, LAR lists the following methodologies as the applicable methods used:

- NEDE-24011-P-A, "General Electric Standard Application for Reactor Fuel," (Revision specified in the COLR)
- NEDE-23785-1-P-A, "The GESTR-LOCA and SAFER Models for the Evaluation of the Loss-of-Coolant Accident," Volume III, Revision 1, October 1984.
- NEDO-31960 and NEDO-31960 Supplement 1, "BWR Owner's Group Long Term Stability Solutions Licensing Methodology" (the approved Revision at the time the reload analysis is performed)

The NRC staff agrees that the first listed methodology (NEDE-24011) is appropriate for the SLMCPR analysis. However, the NRC staff does not believe the other two methodologies listed in the LAR are related to the SLMCPR analysis. Please confirm that the GNF report is correct and verify that the methodologies listed in the GNF report were the methodologies used for the SLMCPR analysis.

This request was discussed with Mr. David Van der Kamp of your staff on August 17, 2016, and it was agreed that a response would be provided by August 30, 2016. If circumstances result in the need to revise the requested response date, please contact me at (301) 415-4037 or via e-mail at Thomas.Wengert@nrc.gov.

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