



Monticello Nuclear Generating Plant
2807 W County Rd 75
Monticello, MN 55362

December 20, 2013

L-MT-13-126
10 CFR 50.90

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Monticello Nuclear Generating Plant
Docket 50-263
Renewed License No. DPR-22

Subject: Maximum Extended Load Line Limit Analysis Plus: Cycle 27 Safety
Reload Licensing Report and Request for Additional Information
Response (TAC ME3145)

- References:
- 1) Letter from T J O'Connor (NSPM), to Document Control Desk (NRC), "License Amendment Request: Maximum Extended Load Line Limit Analysis Plus," L-MT-10-003, dated January 21, 2010. (ADAMS Accession No. ML100280558)
 - 2) NEDC-33006P-A, Revision 3, "Licensing Topical Report, General Electric Boiling Water Reactor, Maximum Extended Load Line Limit Analysis Plus," dated June 2009. (ADAMS Accession No. ML091800512)
 - 3) Email from T. Beltz (NRC) to J. Fields (NSPM), "Monticello Nuclear Generating Plant - Draft Request for Additional Information re: Maximum Extended Load Line Limit Analysis Plus LAR Review (TAC No. ME3145)," dated November 26, 2013.

In Reference 1, Northern States Power Company, a Minnesota corporation (NSPM), doing business as Xcel Energy, requested approval of an amendment to the Monticello Nuclear Generating Plant (MNGP) Renewed Operating License (OL) and Technical Specifications (TS). The proposed change would allow operation in the expanded Maximum Extended Load Line Limit Analysis Plus (MELLLA+) domain.

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NRR

The purpose of this letter is to provide the NRC with the MNGP cycle 27 Supplemental Reload Licensing Report (SRLR) applicable to MELLLA+ conditions and evaluations and to provide a response to an NRC Request for Additional Information (RAI).

Enclosure 1 to this letter provides the MNGP cycle 27 SRLR applicable to MELLLA+ conditions and evaluations. The cycle 27 SRLR is being submitted to the NRC to fulfill the requirements of the MELLLA+ topical report (Reference 2), Limitation and Condition 12.4, which specifies that the SRLR for the initial MELLLA+ implementation cycle shall be submitted for NRC staff confirmation.

The SRLR supports the licensing work performed for the MNGP MELLLA+ license. This reload design was initiated prior to the PRIME transition commitment to utilize PRIME for reload analyses. The cycle-specific reload analyses are based on GESTR-M, with one exception, and the peak clad temperature (PCT) impact of PRIME was evaluated as part of 10 CFR 50.46 Error Notification 2012-01. The one exception is the Detect and Suppress Solution - Confirmation Density (DSS-CD) Backup Stability Protection (BSP) analysis, which was performed using PRIME. The use of PRIME for the DSS-CD BSP analysis is consistent with NEDO-33173 Supplement 4-A, Rev. 1, "Implementation of PRIME Models and Data in Downstream Methods," November 2012.

Enclosure 2 provides a report from General Electric – Hitachi (GEH) letter, GE-MNGP-AEP-3306, "GEH Response to MELLLA+ EICB RAI," which provides a response to the NRC's RAI (Reference 3). Enclosure 2 contains proprietary information.

Enclosure 3 provides a non-proprietary copy of the Enclosure 2 RAI response. The non-proprietary copy of the RAI response is being provided based on the NRC's expectation that the submitter of the proprietary information should provide, if possible, a non-proprietary version of the document with brackets showing where the proprietary information has been deleted.

Enclosure 4 provides an affidavit executed to support withholding Enclosure 2 from public disclosure. Information in Enclosure 2 contains proprietary information as defined by 10 CFR 2.390. The affidavit sets forth the basis on which the information may be withheld from public disclosure by the NRC and addresses with specificity the considerations listed in 10 CFR 2.390(b)(4). Accordingly, NSPM respectfully requests that the proprietary information in Enclosure 2 be withheld from public disclosure in accordance with 10 CFR 2.390(a)4, as authorized by 10 CFR 9.17(a)4.

Correspondence with respect to the copyright or proprietary aspects of GEH information or the supporting GEH affidavit in Enclosure 4 should be addressed to Linda C. Dolan, Manager, Regulatory Compliance, GE-Hitachi Nuclear Energy Americas LLC, 3901 Castle Hayne Road, Wilmington, NC 28401.

The supplemental information provided herein does not change the conclusions of the No Significant Hazards Consideration and the Environmental Consideration evaluations provided in Reference 1 for the MELLLA+ license amendment request.

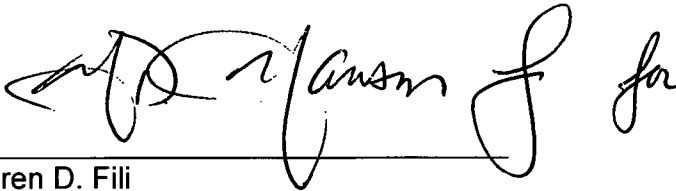
In accordance with 10 CFR 50.91(b), a copy of this application supplement, without enclosures is being provided to the designated Minnesota Official.

Summary of Commitments

This letter makes no new commitments and no revisions to existing commitments.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on: December 20, 2013

A handwritten signature in black ink, appearing to read 'Karen D. Fili', followed by a horizontal line and the word 'for'.

Karen D. Fili
Site Vice-President
Monticello Nuclear Generating Plant
Northern States Power Company-Minnesota

Enclosures (4)

cc: Regional Administrator, Region III, USNRC (w/o enclosures)
Project Manager, Monticello Nuclear Generating Plant, USNRC
Resident Inspector, Monticello Nuclear Generating Plant, USNRC (w/o enclosures)
Minnesota Department of Commerce (w/o enclosures)