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March 16, 2023

L-PI-23-002
10 CFR Part 50 Appendix H

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

Prairie Island Nuclear Generating Plant, Unit 2
Docket No. 50-306
Renewed Facility Operating License No. DPR-60

Prairie Island Nuclear Generating Plant (PINGP) Unit 2 Reactor Vessel Material Surveillance Program Report

- References:
- 1) NSPM Letter L-PI-22-005, "Prairie Island Unit 1 Reactor Vessel Material Surveillance Program Report," dated March 7, 2022. (NRC ADAMS Accession Numbers ML22067A148, ML22067A149, ML22067A150, ML22067A151, ML22067A152, ML22067A153, ML22067A154, and ML22067A155)
 - 2) NSPM Letter L-PI-22-020, "Application to Revise Technical Specification Section 5.6.6, Reactor Coolant System (RCS) Pressure and Temperature Limits Report (PTLR)," dated December 2, 2022. (NRC ADAMS Accession Numbers ML22343A257 and ML22343A258)

In accordance with 10 CFR 50 Appendix H, Northern States Power Company, a Minnesota corporation, doing business as Xcel Energy (hereafter "NSPM"), hereby submits the enclosed non-proprietary report WCAP-18795-NP, "Analysis of Capsule N from the Xcel Energy Prairie Island Unit 2 Reactor Vessel Radiation Surveillance Program."

The enclosed report and the Unit 1 report submitted with Reference 1 will result in changes to the PINGP Pressure and Temperature Limits Report. Following the submittal of Reference 1, NSPM submitted a license amendment request (LAR) to revise PINGP Technical Specifications (TS) 5.6.6, Reactor Coolant System (RCS) PRESSURE AND TEMPERATURE LIMITS REPORT (PTLR), to incorporate use of newer approved analytical methods to determine the RCS pressure and temperature limits and Cold Overpressure Mitigation System setpoints. (Reference 2)

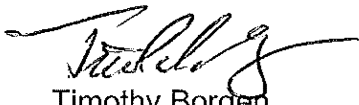
Reference 2 included report WCAP-18746-NP, Revision 1, "Prairie Island Units 1 and 2 Heatup and Cooldown Limit Curves for Normal Operation," which was prepared using the

proposed methods incorporating the analysis of the Unit 1 Capsule N submitted with Reference 1. The analysis of Unit 2 Capsule N submitted herein resulted in a revision to WCAP-18746-NP. NSPM plans to submit WCAP-18746-NP, Revision 2, in a supplement to the LAR of Reference 2.

Summary of Commitments

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

Please contact Mr. Jeff Kivi at (612) 330-5788 or Jeffrey.L.Kivi@xcelenergy.com if there are any questions or if additional information is needed.



Timothy Borgen
Plant Manager, Prairie Island Nuclear Generating Plant
Northern States Power Company – Minnesota

Enclosure

cc: Administrator, Region III, USNRC
Project Manager, Prairie Island, USNRC
Resident Inspector, Prairie Island, USNRC

ENCLOSURE

PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNIT 2

WCAP-18795-NP

Analysis of Capsule N from the Xcel Energy Prairie Island Unit 2
Reactor Vessel Radiation Surveillance Program

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