



Northern States Power Company

Monticello Nuclear Generating Plant
2807 West County Road 75
Monticello, MN 55362

February 21, 2000

US Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

MONTICELLO NUCLEAR GENERATING PLANT
Docket No. 50-263 License No. DPR-22

Notification of Completion of Commitments
Concerning Motor Operated Valves

In a July 30, 1998 letter to the NRC titled, "Supplementary Information Regarding the Monticello Power Rerate Program (TAC No. 96238), Northern States Power (NSP) made two commitments. These two commitments became Appendix C, "Additional Conditions" with the NRC issuance of Amendment 102 to the Monticello license on September 16, 1998.

This letter documents fulfillment of the following Additional Conditions:

ADDITIONAL CONDITIONS

- 1) *NSP shall evaluate whether MO-2034 and MO-4229 are capable of allowing a subsequent operation after the required isolation safety functions are completed. This evaluation may include an examination of assumptions and methodologies, additional administrative controls, and modifications. The evaluation shall be completed in order to institute the corrective actions, if any, by the end of the next scheduled refueling outage.*
- 2) *NSP shall evaluate the capacity margins of MO-2398 and MO-2034. This evaluation may include an examination of assumptions and methodologies, additional administrative controls, and modifications. The evaluation shall be completed in order to institute the corrective actions.*

RESPONSE

1) Capability of Operation after Isolation

MO-2034

Testing was performed which confirmed that the actual stem to stem nut coefficient of friction is lower than the generic design value used for analysis of MOV capability. Based on this information, a revised actuator thrust window was established and the torque switch setting was lowered. The actuator now has sufficient capability to satisfy all required design basis conditions with proper torque switch actuation to stop actuator motion in the closed direction, allowing for subsequent operation after the required isolation safety functions are completed.

MO-4229

Testing was performed which confirmed that the actual stem to stem nut coefficient of friction is lower than the generic design value used for analysis of MOV capability. Based on this information, a revised actuator thrust window was established. With the revised actuator thrust window, and the existing torque switch setting, the actuator has sufficient capability to satisfy all required design basis conditions. The torque switches will actuate properly to stop actuator motion in the closed direction, allowing subsequent operation after the required isolation safety functions are completed.

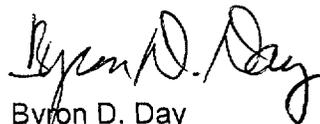
2) Capacity Margin

MO-2034 and MO-2398

The minimum actuator thrust required to perform design basis functions for both MO-2034 and MO-2398 was determined using the EPRI MOV Performance Prediction Methodology (PPM), document TR-103237. TR-103237 was reviewed by the NRC staff in a March 15, 1996 safety evaluation.

When the actuators' minimum required thrust is determined using the EPRI PPM methodology, both of these valves are considered as "high margin" in accordance with NEDC-32719, "BWR Owners' Group Program on Motor-Operated Valve (MOV) Periodic Verification." NEDC-32719 was reviewed by the NRC staff in an October 30, 1997 safety evaluation.

Please contact Sam Shirey at (612) 295-1449 if you require additional information concerning this report.



Byron D. Day
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