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	Office of Nuclear Reactor Regulation, Director

SUBJECT: Application to amend License DPR-22,changing Tech Specs to permit safety/relief valve actuation setpoints & lo-lo set logic setpoints to increase by 12 psi,per NUREG-0737, Item II.K.3.16.Fee paid.

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NSP

Northern States Power Company

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June 27, 1985

Director
Office of Nuclear Reactor Regulation
US Nuclear Regulatory Commission
Washington, DC 20555

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

License Amendment Request Dated June 27, 1985
Safety/Relief Valve Simmer Margin Improvement

Attached are three originals and 37 conformed copies of a request for a change in the Technical Specifications, Appendix A, of Operating License DPR-22. A check is attached in the amount of $150.00 in accordance with 10 CFR Part 170 for the amendment application fee.

The proposed Technical Specification changes will permit safety/relief valve actuation setpoints and low-low set logic set points to be increased by 12 psi. This increase in valve simmer margin will increase safety/relief valve reliability. Increased simmer margin is an action recommened by the NRC Staff to implement the requirements of NUREG-0737, Item II.K.3.16, "Improvements to Reduce Challenges and Failures of Safety/Relief Valves."

Please call us if you have any questions concerning this amendment request.

David Musolf
Manager - Nuclear Support Services

c: Regional Administrator III, NRC
Resident Inspector, NRC
G Charnoff

A046
3/37

Rec'd w/check $150.00

Attachments: Affidavit
Exhibit A - Description and Evaluation of Proposed Changes
Exhibit B - Proposed Page Changes
Exhibit C - General Electric Report NEDO-30771, "Safety Relief Valve Simmer Margin Analysis for the Monticello Nuclear Generating Plant"

UNITED STATES NUCLEAR REGULATORY COMMISSION

NORTHERN STATES POWER COMPANY

MONTICELLO NUCLEAR GENERATING PLANT DOCKET NO. 50-263

REQUEST FOR AMENDMENT TO
OPERATING LICENSE DPR-22

LICENSE AMENDMENT REQUEST DATED JUNE 27, 1985

Northern States Power Company, a Minnesota corporation, requests authorization for changes to the Technical Specifications as shown on the attachments labeled Exhibit A and Exhibit B. Exhibit A describes the proposed changes along with reasons for the changes. Exhibit B is a set of Technical Specification pages incorporating the proposed changes. Exhibit C is a General Electric report containing the results of analyses supporting the requested changes.

This letter contains no restricted or other defense information.

NORTHERN STATES POWER COMPANY

By [signature]
David Musolf
Manager-Nuclear Support Services

On this 27th day of June, 1985 before me a notary public in and for said County, personally appeared David Musolf, Manager-Nuclear Support Services, and being first duly sworn acknowledged that he is authorized to execute this document on behalf of Northern States Power Company, that he knows the contents thereof, and that to the best of his knowledge, information, and belief the statements made in it are true and that is is not interposed for delay.

Dody A Brose

DODY A. BROSE
NOTARY PUBLIC — MINNESOTA
HENNEPIN COUNTY
My Commission Expires Dec. 26, 1989

Exhibit A

Monticello Nuclear Generating Plant

License Amendment Request Dated June 27, 1985

Description and Evaluation of Proposed Changes
to the Technical Specifications

Pursuant to 10 CFR Part 50, Sections 50.59 and 50.90, the holders of Operating License DPR-22 hereby propose the following changes to Appendix A, Technical Specifications:

Simmer Margin Improvement

Proposed Changes

Change the Safety/Relief valve self-actuation setpoint specified in Section 2.4.B on page 21 to 1120 psig.

Increase the Low-Low Set Logic opening and closing setpoints by 12 psi in Table 3.2.7 on page 60b.

Revise the Section 2.4 Bases on page 24 to include the basis for the maximum allowable safety/relief valve setpoint of 1120 psig.

Refer to Exhibit B for the actual page changes.

Reasons for Change

This change will increase the self-actuation and Low-Low Set Logic setpoints of the safety/relief valves by 12 psi. This increase in safety/relief valve simmer margin will increase valve reliability by reducing the probability of valve leakage and spurious opening during plant operation. Increasing valve simmer margin is an NRC Staff approved action for implementation of NUREG-0737, Item II.K.3.16, a TMI Action Plan improvement.

Exhibit C is a General Electric report entitled, "Safety Relief Valve Simmer Margin Analysis for the Monticello Nuclear Generating Plant," NEDO-30771, September, 1984. This report provides the results of analyses supporting the 12 psi increase in safety/relief valve settings.

The analysis presented in Exhibit C assumes:

a. Seven of the eight valves are operable

b. Valve opening delay is 0.4 seconds

The methodology and codes used in the simmer margin analysis are identical to those used in General Electric's standard reload licensing analysis. The NRC Staff has approved of this methodology and has accepted simmer margin analyses for other boiling water reactor plants.

A simmer margin increase of 12 psi was selected since this is the maximum possible increase. The setpoint cannot be higher than the design pressure limit of the HPCI and RCIC systems, which is 1120 psig at Monticello. The HPCI/RCIC design pressure is the limiting criterion for safety/relief valve setpoints. Since the steam pilot opening setpoint at Monticello is equal for all valves, the HPCI/RCIC pressure limit of 1120 psig dictates a maximum increase of 12 psi.

Significant Hazards Evaluation

The proposed change in safety/relief valve and Low-Low Set Logic setpoints will result in improved safety/relief valve reliability. The analysis presented in Exhibit C concludes that the setpoint increase is clearly within all acceptance criteria established in NRC Staff guidance.

For these reasons, operation of the Monticello Nuclear Generating Plant in accordance with the proposed changes will not:

(1) Involve a significant increase in the probability or consequences of an accident previously evaluated; or

(2) Create the possibility of a new or different kind of accident from any accident previously evaluated; or

(3) Involve a significant reduction in a margin of safety.

Implementation Schedule

It is requested that this License Amendment be issued with a delayed implementation date of prior to Cycle 12 operation, or at the discretion of the licensee, at the first planned cold shutdown of sufficient length to accomplish the safety/relief valve setpoint changes.

The reload safety evaluation for Cycle 12 will be performed assuming the 12 psi simmer margin improvement described in this submittal.