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Docket No. 50-263

Northern States Power Company
ATTN: Mr. L. O. Mayer
Manager of Nuclear Support Services
414 Nicollet Mall
Minneapolis, Minnesota 55401

Gentlemen:

Your letter of December 1, 1975 requested approval of proposed changes to Technical Specifications of the Provisional Operating License for the Monticello Nuclear Generating Plant. The proposed changes involve decreasing the main steamline low pressure setpoint and the minimum critical power ratio operating-limit. We are reviewing your submittal and have determined that the additional information described in Enclosure A is necessary to continue our review.

To enable us to maintain our review schedule, please submit the requested information prior to February 27, 1976.

Sincerely,

Original signed by
Dennis L. Ziemann

Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Division of Operating Reactors

Enclosure:
Request for Additional Information

cc w/enclosure:
See next page

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Form AEC-318 (Rev. 9-53) AECM 0240 ☆ U. S. GOVERNMENT PRINTING OFFICE: 1974-526-166

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NORTHERN STATES POWER COMPANY

MONTICELLO NUCLEAR GENERATING PLANT

DOCKET NO. 50-263

REQUEST FOR ADDITIONAL INFORMATION

REVIEW OF PROPOSED CHANGES TO TECHNICAL SPECIFICATIONS TO DECREASE MAIN STEAMLINE LOW PRESSURE SETPOINT AND MINIMUM CRITICAL POWER RATIO OPERATING LIMIT

We are reviewing the proposed changes to Technical Specifications which would decrease the main steamline low pressure setpoint and the minimum critical power ratio operating limit, and have identified questions related to these subjects. The following information is requested:

1. For the spectrum of steamline breaks downstream of the main steamline isolation valves (MSIV) provide the following:

   (a) An analysis of the change in the radiological consequences resulting from the reduction in the setpoint for MSIV closure on low steamline pressure from 850 psig to 825 psig. So that we may perform an independent check, also provide the difference in the amount of steam and liquid released as a result of the lower setpoint.

   (b) A discussion of the effects of the setpoint reduction on peak cladding temperature and MCPR.

2. In the analysis of the failure of the turbine pressure regulator presented in your SAR, the main steamline isolation valves are assumed to start closing (initiating a reactor scram) when the low steamline pressure is reached.

   (a) Identify other transients that assume MSIV closure and reactor scram are initiated by the low steamline pressure signal.

   (b) Provide a reanalysis of the failure of the turbine pressure regulator transient, and the other transients identified in (a), assuming MSIV closure and reactor scram at the proposed setpoint of 825 psig.

3. Were MCPR values of 1.38 and 1.29 for 8x8 and 7x7 fuel used as the initial thermal conditions for establishing the worst case for rod withdrawal error? If so, what is the rod block setting and do the affected fuel bundles stay above a MCPR value of 1.06?

4. Provide the scram reactivity curve for EOC5.