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Office of Nuclear Reactor Regulation

SUBJECT: Forwards description of proposed cable spreading room & diesel generator room fire protection sys.Completion of mods,originaly scheduled for 800531,is now expected by 801031.

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NSP

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

May 8, 1980

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

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

Description of Proposed Cable Spreading Room
and Diesel Generator Room Fire Protection Systems

Sections 3.1.2 (2), 3.1.3 (1), 5.2.6, and 5.19.6 of the Monticello Fire Protection Safety Evaluation Report issued by the NRC Staff on August 29, 1979 contain our committment to install automatic fire suppression systems in the cable spreading room and diesel generator rooms. The purpose of this letter is to supply the Staff with design information relating to these modifications.

Enclosure (1) is a description of the Halon 1301 fire extinguishing system we will install in the cable spreading room. Enclosure (2) is a description of the pre-action sprinkler system which will be installed in both diesel generator and day tank rooms.

Completion of these modifications was originally scheduled for May 31, 1980 in Table 3.1 of the Monticello Fire Protection Safety Evaluation Report. We will be unable to meet that schedule. The reason for this delay is due to the heavy work load being experienced by the architect-engineer for this project. Approved specifications for the modifications were not available until early this year which delayed bidding on the project.

A contractor has now been selected to install both systems. Actual construction should begin about August 1, 1980. Project completion is expected by October 31, 1980 allowing for the usual design and procurement delays experienced in projects of this type.

Please contact us if you have any questions related to the modifications as described in Enclosures (1) and (2) or our revised completion schedule. NRC Staff comments which could impact the design of these modifications should be received by June 15, 1980 to permit the completion date of October 31, 1980 be met.

L.O Mayer

L O Mayer, PE
Manager of Nuclear Support Services

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LOM/DMM/jh

cc J G Keppler
G Charnoff

Enclosures

Enclosure (1)

Fire Protection Safety Evaluation Item 3.1.3 (1)
Cable Spreading Room Fire Suppression System

A Halon 1301 fire extinguishing system will be installed in the cable spreading room. The system will include instrumentation for monitoring system readiness, heat-actuated detection devices, local alarms, and connection to the audio-visual fire control annunciator panel in the control room. A local control panel will provide local control and indication.

The high pressure Halon 1301 storage units will be cylinders pressurized with dry nitrogen. A means of determining the pressure in the cylinders will be provided. Each discharge cyclinder valve will be connected to the discharge manifold by a cylinder connector fitted with a check valve to prevent loss of Hylon 1301 if a cylinder is disconnected. The cylinders will be arranged into main and reserve banks; bleeder valves will be installed to prevent the reserve bank from discharging accidentally after the main bank is operated.

Halon 1301 will be discharged into the hazard through wide angle nozzles. Discharge time will be 10 seconds to full concentration density. Concentration density is to be 5% by volume minimum, with a limit of 6% to assure retention of a breathable atmosphere. Desired concentration will be maintained for 10 minutes minimum.

Refer to the attached design specification document for this modification. The design specification was prepared by the Bechtel Corporation for Northern States Power Company. Written permission has been received to forward this document for NRC Staff review.