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Office of Nuclear Reactor Regulation, Director

SUBJECT: Discusses licensee review of alternate 250 VDC power source in HPCI & reactor core isolation cooling sys.Independent 250 VDC source for HPCI is required to assure HPCI operability in event of fire in existing 250 VDC battery sys.

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NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

July 22, 1980

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

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

Alternate 250 VDC Power Source

Sections 3.2.5 and 5.5.6 of the Monticello Fire Protection Safety Evaluation Report issued by the NRC Staff on August 29, 1979 contain our commitment to review the 250 VDC source for valves in the high pressure coolant injection (HPCI) and reactor core isolation cooling (RCIC) systems. As a result of this review it has been determined that an independent 250 VDC source for the HPCI system is required to assure operability of a high pressure coolant injection system in the event of a fire in the existing 250 VDC battery system.

A new 250 VDC battery system will be installed for the HPCI Motor Control Center (D312) only. The new 250 VDC system will be similar in design to the existing 250 VDC system. There will be one 250 VDC battery, center tapped for 125 VDC control power, one 250 VDC distribution panel with ground detection and undervoltage alarm devices, one 125 VDC distribution panel with ground detection device, one 125 VDC battery charger for the center tap, and two 250 VDC battery chargers for the whole battery. The 250 VDC distribution panel ground detection and undervoltage alarms will be alarmed in the control room. The battery chargers will be supplied from 480 VAC essential power sources.

Please contact us if you have any questions related to this modification.

L O Mayer

L O Mayer, PE
Manager of Nuclear Support Services

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LOM/jh

cc: J G Keppler
G Charnoff

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