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SUBJECT: Corrects minor errors in Items 3 & 4 of 790914 response re revised degraded voltage protection info.

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NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

October 31, 1979

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

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

Revised Degraded Voltage Protection Information

Our letter dated September 14, 1979 contained a number of minor errors in the responses to items (3) and (4). These responses should be corrected to read as follows:

3. The results of analyses requested by the NRC's August 13, 1976, letter regarding the events at Millstone Unit No. 2 showed the need for tap changes to some of our transformers. These changes have been made and analysis now indicates a worst case condition of 4.0 kV on the 4.16 kV busses. The relay setting of 3885 V provides a slight (3%) margin against this predicted low voltage while still providing an adequate voltage margin against the minimum voltage requirements of the various loads.

4. Tests performed on 31 essential motor starter circuits showed that this equipment would operate at an average of approximately 375 V (-18% of 460 V). However, the range was from 294 V (-36%) to 420 V (-9%). (Three circuits required greater than 420 V, an average of 437 V for these three, but the contactors in these circuits needed maintenance.) Assuming a minimum pickup voltage requirement of 420 V on the 480 V busses, a setpoint of 3885 V on the 4160 V busses will provide a 16.4 V margin for control circuit operation.

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

L. O. Mayer

L O Mayer, PE
Manager of Nuclear Support Services

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S,P

LOM/DMM/jh

cc J G Keppler
G Charnoff

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