

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO: Don K. Davis

FROM: Norhtern States Power Co. Minneapolis, MN L. O. Mayer

DATE OF DOCUMENT 7/25/77

DATE RECEIVED 7/27/77

LETTER NOTORIZED UNCLASSIFIED ORIGINAL COPY

PROP INFUT FORM

NUMBER OF COPIES RECEIVED 1 COPY

DESCRIPTION LTR REF our 6/3/77 LTR re PLANT NAME: Monticello Nuclear Gen Plt RBT 7/27/77

ENCLOSURE Info regarding the current design of the emergency power system as compared to the NRC staff positions related to degraded voltage protection and system interactions. Begun investigation into the feasibility of installing a second level of protection. 2p ACKNOWLEDGED DO NOT REMOVE

Table with columns: SAFETY, FOR ACTION/INFORMATION, ENVIRONMENTAL. Includes assigned AD, branch chief, project manager, licensing assistant.

INTERNAL DISTRIBUTION table with columns: REG FILES, SYSTEMS SAFETY, PLANT SYSTEMS, SITE SAFETY & ENVIRON ANALYSIS. Lists various staff members and departments.

EXTERNAL DISTRIBUTION table with columns: LPDR, TIC, NAT LAB, REG IV, 16 CYS ACRS SENT CATEGORY, CONTROL NUMBER. Includes handwritten notes and a large 'B'.

NSP

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

July 25, 1977

Mr D K Davis, Acting Chief
Operating Reactors Branch No. 2
Division of Operating Reactors
c/o Distribution Services Branch, DDC, ADM
U S Nuclear Regulatory Commission
Washington, DC 20555

REGULATORY DOCKET FILE COPY



Dear Mr Davis:

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

Equipment Performance Under
Degraded Voltage Conditions

Your letter dated June 3, 1977 requested us to compare the current design of the Monticello emergency power system with the NRC Staff positions related to degraded voltage protection and system interactions. We were asked to supply this information within 45 days of receipt of your letter.

On March 4, 1977 we submitted a description of improvements we planned to make to our bus monitoring capability. Additional bus voltage alarms would be installed which would rapidly alert plant operators to abnormal offsite voltage levels. This would permit them to manually take whatever action is required to maintain acceptable voltages on the safety related busses. The NRC Staff position contained in your June 3, 1977 letter requires automatic degraded voltage protection.

Because our proposed modifications differ from the recommendations of the NRC Staff, we have cancelled our plans to install improved bus voltage monitors. We have instead begun an investigation into the feasibility of installing a second level of automatic degraded voltage protection as required by the NRC Staff position.

This investigation will require approximately 60 days to complete. If we find that the recommended modifications can be completed at reasonable cost without degrading the performance of the existing emergency power system, we will proceed with the necessary engineering, procurement, and installation activities required to complete them.

You will be informed of the results of our investigation by October 1, 1977. If we find we can proceed with the recommended modifications, we will provide you with a description and schedule for completion at that time. A License Amendment Request containing proposed Technical Specifications related to the recommended modifications will be submitted when the design has been finalized.

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NORTHERN STATES POWER COMPANY

Mr D K Davis
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July 25, 1977

Please contact us if our proposed schedule for complying with your request is not satisfactory.

Yours very truly,



L O Mayer, PE
Manager of Nuclear Support Services

LOM/DMM/ak

cc: J G Keppler
G Charnoff
MPCA - Attn: J W Ferman

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