

# 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



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.

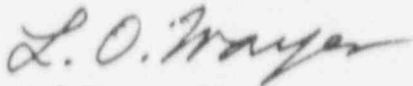
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Mr D K Davis  
Page 2  
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Please contact us if our proposed schedule for complying with your request is not satisfactory.

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

50-263

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO: Don K. Davis

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

DATE OF DOCUMENT  
7/25/77

DATE RECEIVED  
7/27/77

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DESCRIPTION

LTR REF 05-6/3/77  
LTR M ←

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

PLANT NAME: Monticello Nuclear Gen Plt  
RBT 7/27/77

ACKNOWLEDGED

SAFETY

FOR ACTION/INFORMATION

ENVIRONMENTAL

ASSIGNED AD:

BRANCH CHIEF:

PROJECT MANAGER:

LICENSING ASSISTANT:

Davis (7)

ASSIGNED AD:

BRANCH CHIEF:

PROJECT MANAGER:

LICENSING ASSISTANT:

V. MOORE (LTR)

B. HARLESS

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