

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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                          Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards addl info re two fire protection mods planned for facility. Complete failure of turbine lube oil reservoir unlikely. During emergency 12-inch drain line can be used to drain reservoir to outside underground tank.

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NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

August 26, 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

Additional Information Concerning  
Fire Protection Modifications

On July 23, 1980 we were contacted by our Project Manager in the Division of Licensing and asked to provide additional information concerning two fire protection modifications planned for the Monticello Nuclear Generating Plant. The information requested and our response appear below:

Items 3.1.10.A(3) Lube Oil Reservoir/ESF MCC and D/G Room Curbs

The NRC Staff reviewer questioned whether these curbs had been designed to contain the entire oil capacity + 10% for fire fighting water.

The lube oil reservoir/ESF MCC curb was originally increased in height due to an NRC concern brought up during the NRC's on-site fire protection inspection in 1978. Their concern was the possibility of oil reaching the ESF MCC located near column line K. In reviewing this concern, we feel it prudent to install a second curb in the hallway at the north end of this area at column line F midway between column lines 9 & 10. This curb will be made equal in height to the curb that was previously raised. The entire curbed area will be covered by the sprinkler system. In addition the sprinkler system covers an area extending 15 feet past the south curb. The capacity of the curbed area is equal to the normal capacity of the turbine lube oil reservoir. This is adequate because:

- 1) Complete failure of the turbine lube oil reservoir is unlikely. In the event of an emergency, a 12" drain line can be utilized to drain the reservoir to an outside underground tank.
- 2) Adequate drains are available in the area to contain curb overflow or sprinkler discharge beyond the curbs if this should occur.

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- 3) The ESF MCC is adequately protected by this curbing and the extended sprinkler system coverage past the southern-most curb.

The curb between the diesel generator rooms is adequate in size. Besides existing floor drains, additional drainage would be available by opening the outside access doors. One outside access door is available for each diesel generator room.

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Item 3.1.2(2) Diesel Generator Sprinklers

The NRC Staff reviewer inquired about the spray density for the new diesel generator and day tank room sprinkler system. Design density will be 0.2 gpm/ft<sup>2</sup> for the diesel generator rooms and 0.28 gpm/ft<sup>2</sup> for the day tank rooms.

The reviewer also asked whether acceptance tests would conform to NFPA-13, Section 1-11; NFPA-72D, Section 2.2-3; and NFPA 72E, Section 8.2-1. These standards will be satisfied by the acceptance testing.

Please contact us if you require additional information related to these modifications.



L O Mayer, PE  
Manager of Nuclear Support Services

LOM/DMM/ak

cc: J G Keppler  
G Charnoff