

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8001220445 DOC. DATE: 80/01/18 NOTARIZED: NO DOCKET #
 FACIL: 50-263 Monticello Nuclear Generating Plant, Northern States 05000263
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 Office of Nuclear Reactor Regulation

SUBJECT: Discusses fire pump evaluation required by 790829 fire protection safety evaluation. Fire pump installation complies w/Branch Technical Position ASB 9.5-1, Section C.5.6(3) requirements.

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MINNEAPOLIS, MINNESOTA 55401

January 18, 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

Fire Pump Evaluation Required by
Fire Protection Safety Evaluation

Sections 3.2.3 and 4.3.1.2 of the Monticello Fire Protection Safety Evaluation Report issued by the NRC Staff on August 29, 1979 contain our commitment to evaluate the adequacy of the existing fire pump capacity. This evaluation has been completed and the results summarized below.

The five largest fire suppression water system demands are as follows:

Turbine Basement Sprinkler System	2321 gpm
Main Transformer Deluge System	1320 gpm
Cooling Tower Deluge System (3 Cell)	2102 gpm
Cooling Tower Deluge System (2 Cell)	1392 gpm
Turbine Lube Oil Reservoir Deluge System	1130 gpm

With two pumps operating and the shortest leg of the underground loop out of service, the pumps will satisfy the system demands and provide excess capacity for hose streams as follows:

<u>System</u>	<u>System Demand</u>	<u>Hose Stream Capacity</u>
Turbine Basement	2321 gpm	929 gpm
Main Transformer	1320 gpm	960 gpm
Cooling Tower (3 Cell)	2102 gpm	378 gpm
Cooling Tower (2 Cell)	1392 gpm	1928 gpm
Lube Oil Reservoir	1130 gpm	1670 gpm

Standard Review Plan Branch Technical Position ASB 9.5-1 states in Section C.5.b(5) that the fire water supply should be based on a flow rate of 750 gpm for manual hose streams plus the largest demand of any sprinkler or deluge system. Monticello is in conformance with these guidelines for all fire suppression system loads except a fire which involves a three cell cooling tower deluge system. A fire involving this system would not affect safe plant shutdown or pose a threat of spreading to the plant buildings due to its remote location. This inadequacy is not deemed to require any modifications.

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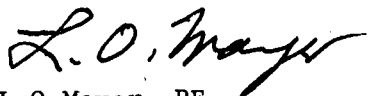
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The 1500 gpm diesel fire pump would be available to meet fire suppression system demands under all conditions including loss of off-site electrical power. The 1500 gpm electric fire pump is on an emergency power bus supplied from the #12 standby diesel generator and also would be available under loss of off-site power conditions. The 1500 gpm screen wash pump, which can also supply water to the fire suppression system, is not supplied from an emergency power bus and would not be available under loss of off-site power conditions. The diesel and electric fire pumps operating alone have adequate capacity to meet the largest system demand in areas posing a fire hazard to safety related fire zones or safety related equipment.

In view of these findings, we believe the fire pump installation is in compliance with the requirements of Branch Technical Position ASB 9.5-1 Section C.5.b(3).

Based on this evaluation no modifications to the existing system are planned. Please contact us if you require additional information related to this evaluation.

Sincerely,



L O Mayer, PE
Manager of Nuclear Support Services

LOM/DMM/ak

cc: J G Keppler
G Charnoff