



Northern States Power Company

414 Nicollet Mall
Minneapolis, Minnesota 55401-1927
Telephone (612) 330-5500

June 28, 1990

Tech. Spec. 3.14.B.2

Director of Nuclear Reactor Regulation
U S Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
Docket Nos. 50-282 License Nos. DPR-42
50-306 DPR-60

Loss of Fire Suppression Water System Redundancy

Technical Specification 3.14.B.1 requires that the Fire Suppression Water System be operable at all times with the diesel and motor driven fire pumps and the screen wash pump operable. Technical Specification 3.14.B.2 requires that, "With one or two of the pumps required by Specification 3.14.B.1.a inoperable, restore the inoperable equipment to operable status within 7 days or provide a special report to the Commission within 30 days outlining the plans and procedures to be used to provide for the loss of redundancy in the Fire Suppression Water System". This special report is being submitted in accordance with Prairie Island Technical Specification 3.14.B.2.

No. 121 screen wash pump was removed from service on May 29, 1990 to investigate abnormal vibration and axial movement of the pump shaft. The pump was disassembled to determine the cause of the problem. It was determined that the bearing/impeller assembly was worn and needed to be replaced. Upon further disassembly, it was discovered that one of the bearing housings was worn and also had to be replaced. Bearing housings are not maintained as spare parts for the screen wash pump and had to be procured from the manufacturer. The procurement of the replacement bearing housing took 2 days which resulted in a delay in the repair of the screen wash pump. Pump repair was not completed until June 7, 1990. This was two days beyond the seven day period allowed by Technical Specification 3.14.B.2.

During the time when No. 121 Screen Wash Pump was out of service, No. 121 motor driven fire pump and No. 121 diesel driven fire pump were available for service. In addition, the cooling water to the fire header crossover valves were available to maintain the fire header pressure from the cooling water system if required.

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In response to this event, efforts are underway to procure spare bearing housings for all the fire pumps.

Please contact us if you require additional information.



Thomas M Parker
Manager
Nuclear Support Services

c: Regional Administrator - Region III, NRC
Senior Resident Inspector, NRC
NRR Project Manager, NRC
G Charnoff