



Northern States Power Company

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

September 1, 1981

Director of Nuclear Reactor Regulation  
U S Nuclear Regulatory Commission  
Washington, DC 20555

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



Instrumentation for Detection of Inadequate Core Cooling

Our letter dated July 6, 1981 contained our commitment to submit for NRC review a description of the reactor vessel level detection instrumentation system being investigated for use at the Prairie Island Nuclear Generating Plant. Other instrumentation being installed to satisfy NUREG-0737, Item II.F.2, "Instrumentation for Detection of Inadequate Core Cooling," was described in our letters dated November 20, 1980 and December 30, 1980.

As stated in our July 6, 1981 letter we are investigating the Combustion Engineering Heated Junction Thermocouple (HJTC) System for use in both Prairie Island Units. This investigation is being conducted with a number of other utilities interested in installing the HJTC System in Westinghouse units. Information satisfying the requirements of NUREG-0737, Item II.F.2, "Documentation Required", is not yet available. Information which is available to us at this time is provided in the attached report.

Please contact us if you have any questions concerning this information.

*L. O. Mayer*

L O Mayer, PE  
Manager of Nuclear Support Services

LOM/DMM/jh

cc J G Keppler  
NRC Resident Inspector  
G Charnoff

Attachment

8109150425 810901  
PDR ADOCK 05000282  
P PDR

A046  
5/11