



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

September 25, 1995

Mr. Roger O. Anderson, Director
Licensing and Management Issues
Northern States Power Company
414 Nicoilet Mall
Minneapolis, Minnesota 55401

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION REGARDING AN ISSUE RAISED IN THE
JUNE 5, 1995, 2.206 PETITION FOR THE PRAIRIE ISLAND NUCLEAR
GENERATING PLANT UNITS 1 & 2 (TAC NOS. M92508 and M92509)

Dear Mr. Anderson:

By letters dated June 5 and June 21, 1995, the Prairie Island Coalition Against Nuclear Storage and the Nuclear Information & Resources Service sent a 2.206 petition to the NRC for the Prairie Island Nuclear Generating Plant. One of the issues raised in the 2.206 petition dealt with the potential cracking of vessel head penetrations at Prairie Island. Subsequent to our initial responses to the petitioners dated June 19, and July 12, 1995, the staff has become aware of a potential cracking phenomenon for control rod drive mechanism penetrations which may be different than that addressed in our responses. This would involve potential circumferential cracking as a result of previous resin intrusion into the primary coolant such as happened at the Zorita Plant in Spain.

While the staff believes that, due to the magnitude and duration of the resin intrusion at the Zorita plant and the lengthy period of time before cracks propagated, there is no immediate concern for this phenomenon at the Prairie Island plant, the staff requires some plant-specific information to assess the susceptibility of Prairie Island to this phenomenon. The staff requests that you submit your response to the enclosed request for additional information within 30 days in order for the staff to complete its assessment. Your response will be placed in the Public Document Room and a copy will be provided to the petitioners.

If you have any questions regarding this request, please call me at (301)415-1355.

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This requirement affects nine or fewer respondents and, therefore, is not subject to the Office of Management and Budget review under P.L. 96-511.

Sincerely,

Original signed by

Beth A. Wetzel, Project Manager
Project Directorate III-1
Division of Reactor Projects - III/IV
Office of Nuclear Reactor Regulation

Docket Nos. 50-282 and 50-306

Enclosure: Request for Additional Information

cc w/ encl: See .ext page

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Mr. Roger O. Anderson, Director
Northern States Power Company

Prairie Island Nuclear Generating
Plant

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REQUEST FOR ADDITIONAL INFORMATION

PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNITS 1 AND 2

CONTROL ROD DRIVE MECHANISM (CRDM) PENETRATIONS

1. Have any demineralizer resin intrusions occurred at Prairie Island? If so, has Northern States Power Company assessed the demineralizer resin intrusion incident at the Zorita Plant and what are its implications regarding the Prairie Island Nuclear Generating Plant? How much resin, expressed as explicit impurity concentrations, may enter the clean-up system when resin beds are replenished? What are the primary system water chemistry limits for such impurities as sulfates and chlorides? What other primary water impurities are monitored?
2. If demineralizer resin intrusions have occurred at Prairie Island, what are Prairie Island's plans for an integrated, long-term inspection and monitoring program for CRDM penetrations?

ENCLOSURE