



Northern States Power Company  
Prairie Island Nuclear Generating Plant  
1717 Wakonade Dr. East  
Weich, Minnesota 55089

April 17, 1996

Generic Letter 96-01

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

Response to Generic Letter 96-01,  
Testing of Safety-Related Logic Circuits

This letter is in response to Generic Letter 96-01: Testing of Safety-Related Logic Circuits. The Generic Letter requests a written response within 60 days indicating our intentions with respect to the actions requested in the letter. Our intentions are discussed in an attachment to this letter.

In this letter we have made the following new Nuclear Regulatory Commission commitment:

We will complete the requested actions of the Bulletin to the schedule outlined in Section D of the attached response.

Please contact Jack Leveille (612-388-1121, Ext. 4662) if you have any questions related to this letter.

*Michael D Wadley*  
Michael D Wadley  
Plant Manager  
Prairie Island Nuclear Generating Plant

c: (see next page)

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NORTHERN STATES POWER COMPANY

c: Regional Administrator - Region III, NRC  
Senior Resident Inspector, NRC  
NRR Project Manager, NRC  
J E Silberg

Attachments:

1. Affidavit
2. Response to Generic Letter 96-01

UNITED STATES NUCLEAR REGULATORY COMMISSION

NORTHERN STATES POWER COMPANY

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

DOCKET NO. 50-282  
50-306

GENERIC LETTER 96-01, TESTING OF SAFETY-RELATED LOGIC CIRCUITS

Northern States Power Company, a Minnesota corporation, with this letter is submitting information requested by NRC Generic Letter 96-01.

This letter contains no restricted or other defense information.

NORTHERN STATES POWER COMPANY

BY

*Michael D Wadley*

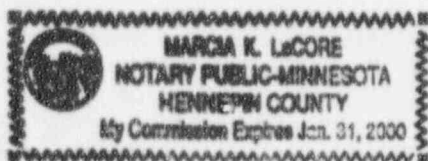
Michael D Wadley

Plant Manager

Prairie Island Nuclear Generating Plant

On this 17<sup>th</sup> day of April 1996 before me a notary public in and for said County, personally appeared Michael D Wadley, Plant Manager, Prairie Island Nuclear Generating Plant; and being first duly sworn acknowledged that he is authorized to execute this document on behalf of Northern States Power Company, that he knows the contents thereof, and that to the best of his knowledge, information, and belief, the statements made in it are true and that it is not interposed for delay.

*Marcia K LaCore*



## RESPONSE TO GENERIC LETTER 96-01

From Generic Letter 96-01:

### **Requested Actions**

**The NRC staff requests that all addressees take the following actions:**

- (1) Compare electrical schematic drawings and logic diagrams for the reactor protection system, EDG load shedding and sequencing, and actuation logic for the engineered safety features systems against plant surveillance test procedures to ensure that all portions of the logic circuitry, including the parallel logic, interlocks, bypasses and inhibit circuits, are adequately covered in the surveillance procedures to fulfill the TS requirements. This review should also include relay contacts, control switches, and other relevant electrical components within these systems, utilized in the logic circuits performing a safety function.**
  
- (2) Modify the surveillance procedures as necessary for complete testing to comply with the technical specifications. Additionally, the licensee may request an amendment to the technical specifications if relief from certain testing requirements can be justified.**

**It is requested the completion of these actions be accomplished prior to startup from the first refueling outage commencing one year after the issuance of this generic letter.**

### Responses to the Requested Actions:

#### A. Coordinated review for GL 96-01 and Improved Technical Specifications

The Prairie Island Nuclear Generating Plant has begun a project to upgrade the current Custom Technical Specifications to Improved Technical Specifications (ITS). This conversion is based on the Standard Technical Specifications for Westinghouse Plants, NUREG-1431. Our present schedule is to submit the Technical Specification conversion package to the NRC in June of 1997, with implementation planned for April of 1998.

Per a discussion held with the NRC staff on April 2, 1996, the response to GL 96-01 will be coordinated with the development of the Prairie Island ITS. As such, the

reviews performed in response to GL 96-01 will be based on the ITS rather than the current Technical Specifications.

B. Review of drawings and surveillance procedures

Per GL 96-01, "Requested Actions" section, paragraph (1), Prairie Island staff will compare the plant's electrical schematic drawings and logic diagrams for the reactor protection system, Emergency Diesel Generator load shedding and sequencing, and actuation logic for the engineered safety features systems against plant surveillance test procedures.

This comparison will ensure that the safety function portions of these systems' logic circuitry, including the parallel logic, interlocks, bypasses and inhibit circuits, are adequately covered in surveillance procedures to fulfill the ITS surveillance testing requirements applicable to Prairie Island.

This review will include relay contacts, control switches, and other relevant electrical components within these systems, utilized in the logic circuits performing a safety function.

C. Actions to be taken if inadequate testing is found

If, during the course of this review, a component is found to be inadequately tested under an applicable ITS requirement, Prairie Island will review existing technical specifications for testing adequacy.

Operability determinations and required actions will be based upon existing Prairie Island technical specifications.

D. Schedule

Per GL 96-01, "Requested Actions" section, paragraph (2), Prairie Island staff will complete the Unit 2 systems reviews and revise surveillance procedures as necessary to comply with existing Prairie Island technical specifications prior to start-up from the next Unit 2 refueling outage. The next Unit 2 refueling start-up is presently scheduled for 2/24/97.

Per GL 96-01, "Requested Actions" section, paragraph (2), Prairie Island staff will complete the Unit 1 and shared unit systems reviews and revise surveillance procedures as necessary to comply with existing Prairie Island technical

Island technical specifications prior to start-up from the next Unit 1 refueling outage. The next Unit 1 refueling start-up is presently scheduled for 10/18/97.

Surveillance procedure revisions for ITS will be completed per the ITS implementation schedule.