



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

December 27, 1999

Mr. Roger O. Anderson, Director  
Nuclear Energy Engineering  
Northern States Power Company  
414 Nicollet Mall  
Minneapolis, MN 55401

**SUBJECT: PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNIT 1 - COMPLETION OF LICENSING ACTION FOR GENERIC LETTER 96-01, "TESTING OF SAFETY-RELATED LOGIC CIRCUITS" (TAC NO. M94720)**

Dear Mr. Anderson:

On January 10, 1996, the U.S. Nuclear Regulatory Commission (NRC) issued Generic Letter (GL) 96-01, "Testing of Safety-Related Logic Circuits," to all holders of operating licenses or construction permits. The NRC issued GL 96-01 for three principal reasons:

1. To notify addressees about problems with testing of safety-related logic circuits;
2. To request that all addressees implement the actions described in the GL; and
3. To require that all addressees submit to the NRC a written response regarding implementation of the requested actions.

In GL 96-01, the staff specifically requested that licensees take the following actions:

1. Compare electrical schematics and logic diagrams for the reactor protection system, emergency diesel generator load shedding and sequencing, and actuation logic for the engineered safety feature 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 technical specification 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; and
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.

Furthermore, the NRC staff required that addressees prepare and submit the following:

1. A written response indicating whether or not the licensee would implement the actions requested above or propose an alternative action;
2. A schedule for completing the requested actions or proposed alternative; and
3. A response confirming completion of the requested actions.

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In response to GL 96-01, you provided letters dated April 17, 1996, and March 27, 1997, for Prairie Island, Unit 2. These submittals provided the information requested and the responses required by GL 96-01; therefore, by a letter dated September 11, 1997, the staff informed you of the completion of licensing action related to GL 96-01 for Unit 2.

Subsequently, on January 6, 1998, you provided a letter for Prairie Island, Unit 1, in response to GL 96-01. Your January 6, 1998 letter stated that the review of GL 96-01 for Prairie Island, Unit 1 was completed and the results of this review indicated, with two minor exceptions, that the station was correctly implementing and documenting the Unit 1 surveillance testing program for the reactor protection system, emergency diesel generator load shedding and sequencing functions, and the actuation logic for the engineered safety features as outlined in the station technical specifications. The two exceptions were documented in Licensee Event Report (LER) 1-97-11, "Failure to Test the Low Pressure Auto-start Function of 121 Motor Driven Cooling water Pump and Inadequate Separation Between Trains A and B Low Pressure Auto-start Switches," and LER 1-97-18, "Failure to Test the Auto-start Feature of the Control Room Ventilation System Air Handlers due to Procedure Deficiency."

We note that both exceptions (LER 1-97-11 and LER 1-97-18) were subsequently resolved as documented in NRC Inspection Report 50-282/98003, dated March 12, 1998, and in Inspection Report 50-282/98008, dated June 28, 1998, respectively.

Based on the above, our review effort under TAC No. M94720 is hereby closed.

If you have any questions regarding this matter, please call me at (301) 415-1392.

Sincerely,



Tae Kim, Senior Project Manager, Section 1  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-282

cc: See next page

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cc:

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Northern States Power Company  
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November 1999

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