



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

September 18, 1990

Docket Nos. 50-282 and 50-306

Mr. T. M. Parker, Manager  
Nuclear Support Service  
Northern States Power Company  
414 Nicollet Mall  
Minneapolis, Minnesota 55401

Dear Mr. Parker:

SUBJECT: SAFETY EVALUATION OF THE PRAIRIE ISLAND NUCLEAR GENERATING PLANT  
UNIT NOS. 1 AND 2; STATION BLACKOUT RULE 10 CFR 50.63 (TAC NOS. 68588  
AND 68589)

By letter dated April 13, 1989 and March 29, 1990 Northern States Power Company submitted the response in accordance with 10 CFR 50.63(c)(1) for the potential loss of electrical alternating power (i.e. station blackout (SBO) Rule) at the Prairie Island Nuclear Generating Plant Unit Nos. 1 and 2. The responses were reviewed by the NRC and by the NRC's consultant, Science Application International Corporation (SAIC). Enclosure 1 is a copy of our Safety Evaluation Report and Enclosure 2 is a copy of the SAIC Technical Evaluation (TER) SAIC-89/641.

Northern States Power Company (the licensee) has proposed the addition of two Class 1E emergency diesel generators (EDGs) which in conjunction with the existing EDGs will permit two dedicated EDGs for each unit as an alternate power source. The licensee has submitted their responses in the SBO generic format for plants using alternate AC power source. Based on our review of the licensee's submittals we find that the Prairie Island Nuclear Generating Plant will conform with the SBO rule (10 CFR 50.63) after completing the modifications committed to in their submittals. However, the following areas may require a follow-up inspection by the staff in order to verify that the implementation of the modifications and the supporting documentation are adequate in meeting the requirements of the SBO rule.

- a. Hardware and procedural modifications,
- b. SBO procedures in accordance with RG 1.155, Position 3.4, and NUMARC 87-00, Section 4,
- c. Operator staffing and training to follow the identified action in the SBO procedures,
- d. EDG reliability program meeting, as a minimum, the guidelines of RG 1.1555,
- e. Equipment and components required to cope with an SBO are incorporated in a QA program that meets the guidance of RG 1.155, Appendix A, and

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Mr. T. M. Parker

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- f. Actions taken pertaining to the specific recommendations noted in the SER.

The Technical Specifications (TSs) for SBO should be consistent with the Interim Commission Policy Statement. The staff has taken the position that TSs are required for SBO equipment. However the question of how specification for the SBO equipment will be applied, is currently being considered generically under the technical specification improvement program and remains an open item at this time.

In the interim you are expected to prepare and maintain adequate procedures to reflect the appropriate testing and surveillance requirements to ensure the operability of the SBO equipment.

In addition, the schedule for implementation of required hardware and associated procedure modifications should be provided to the staff within 30 days of the receipt of this SER, in accordance with 10 CFR 50.63(c)(4).

Sincerely,



Dominic C. DiJanri, Project Manager  
Project Directorate III-1  
Division of Reactor Projects - III,  
IV, V & Special Projects  
Office of Nuclear Reactor Regulation

Enclosures:

1. NRC Safety Evaluation Report
2. SAIC Technical Evaluation Report

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Dominic C. DiJanni, Project Manager  
 Project Directorate III-1  
 Division of Reactor Projects - III,  
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 Office of Nuclear Reactor Regulation

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Mr. T. M. Parker  
Northern States Power Company

Prairie Island Nuclear Generating  
Plant

cc:  
Gerald Charnoff, Esq.  
Shaw, Pittman, Potts and Trowbridge  
2300 N Street, N.W.  
Washington, DC 20037

Dr. J. W. Fermari  
Minnesota Pollution Control Agency  
520 LaFayette Road  
St. Paul, MN 55155

Mr. E. L. Watzl, Plant Manager  
Prairie Island Nuclear Generating Plant  
Northern States Power Company  
Route 2  
Welch, Minnesota 55089

Joseph G. Maternowski  
Assistant Attorney General  
Environmental Protection Division  
Suite 200  
520 Lafayette Road  
St. Paul, Minnesota 55155

U.S. Nuclear Regulatory Commission  
Resident Inspector's Office  
1719 Wakonade Drive East  
Welch, Minnesota 55089

Regional Administrator, Region III  
U.S. Nuclear Regulatory Commission  
Office of Executive Director for  
Operations  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

Mr. William Miller, Auditor  
Gooshue County Courthouse  
Red Wing, Minnesota 55066

Mr. T. M. Parker

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