

January 31, 1990

Docket Nos. 50-282/306

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

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Dear Mr. Parker:

SUBJECT: SAFETY EVALUATION RELATED TO THE EMERGENCY DIESEL GENERATOR
QUALIFICATION PLAN (TAC NOS. 68588 AND 68589)

Northern States Power Company requested the Commission by letter dated September 29, 1989, and supplemented by letter dated December 15, 1989 to evaluate the adequacy of the proposed qualification program dealing with procurement and installation of two emergency diesel generators for the Prairie Island Nuclear Generating Plant Unit No. 2. The installation of two emergency diesel generators are associated with upgrade of the safeguard electrical distribution system assuring that the requirements of 10 CFR 50.63 (Station Blackout) are met.

The objective of the qualification program is to meet the intent of IEEE Standard 387-1984, Reg. Guide 1.108, Revision 1 and Reg. Guide 1.9 Reference 2. However, the program changes the 300 "fast starts" of the emergency diesel generator as required by subsection 7.2.2 of IEEE Standard 387 to 70 fast starts (35 per generator set). Our evaluation concludes that the programs to test the emergency diesel generators at the manufacturer's facilities and in-situ will provide significant assurance that the units will meet the intent of the regulations and the engineering design requirements (capacity, capability, and reliability). On this basis, we find your qualification program acceptable.

The enclosed safety evaluation provides the details and the basis for our conclusion.

original signed by

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

Enclosure:
As stated

MLA
LA/PD31:DRSP
MRShuttleworth
1/30/90

DCD
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1/30/90

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SAFETY EVAL. QUAL. PLAN 50-282/306

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555
January 31, 1990

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Nuclear Support Services
Northern States Power Company
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A handwritten signature in cursive script that reads "Dominic C. DiIanni".

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

Enclosure:
As stated

cc: See next page

Mr. T. M. Parker
Northern States Power Company

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