

NSP

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

October 8, 1979

Mr. James G. Keppler
Director - Region III
Office of Inspection and Enforcement
United States Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
Dockets No. 50-282 and No. 50-306

The following is in response to IE Bulletin 79-23:

1. The following data applies to emergency diesel generators installed at Prairie Island:

Number of Units - 2

Diesel

Manufacturer - Fairbanks Morse
Model - 38 TD 8-1/8

Generator

Manufacturer - Fairbanks Morse
Type - TG2J
Frame - 956-34
Rating - 3000 KW (Continuous)
3250 KW (30 Minutes)
3 phase, 60 Hz, 900 rpm
.8 pf, 4160V, 3750 KVA

Static Exciter & Voltage Regulator

Manufacturer - Basler Electric Co
Model - SBHV
Rating - 2740 KW
0.8 pf, 4160V, 60 Hz
FLA 65 amps at 0.8 pf

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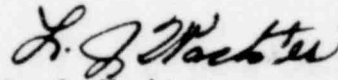
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2. Field current for these generators is developed from the vector summation of the outputs of three current transformers, each in series with one phase of generation output, and three saturable transformers star connected across the generator output. The neutral of the saturable transformer is floating. Therefore, the problem described in IE Bulletin 79-23 does not exist at Prairie Island.
3. Both diesel generators at Prairie Island were subjected to extensive testing prior to startup as illustrated by the following table. No excursions beyond the design limits of the diesel generators were experienced during full load and overload tests.

	<u>D1</u>	<u>D2</u>
Hours running	337	337
Hours at full load	55 (including 49 consecutive hours)	53 (including 35 consecutive hours)
Hours at 1/2 hr rating	1/2	1/2

Yours very truly,



L. J. Wachter

Vice President - Power Production
and System Operation

cc: Mr. G. Charnoff
NRC Office of Inspection and Enforcement
Washington, D.C.

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