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

January 9, 1980

Docket Nos.: 50-282
50-306

Northern States Power Company
ATTN: Mr. L. O. Mayer
Manager of Nuclear Support
Services
414 Nicollet Mall, 8th Floor
Minneapolis, Minnesota 55401

Dear Mr. Mayer:

We have reviewed the information you have submitted regarding the containment purge system on the Prairie Island Plant. We find that we need the additional information identified in the enclosure to this letter in order to complete our evaluation of the electrical override/bypass aspects of the long term containment purge matter. In order to maintain our review schedule we need the information in 45 days from the receipt of this letter.

Sincerely,

A. Schwencer

A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors
Office of Nuclear Reactor Regulation

Enclosure:
Request for Additional
Information

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cc: Gerald Charnoff, Esquire
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1935 W. County Road B2
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Robert L. Nybo, Jr., Chairman
Minnesota-Wisconsin Boundary Area
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Clarence D. Fierabend
U. S. Nuclear Regulatory Commission
P. O. Box 374
Red Wing, Minnesota 55066

REQUEST FOR ADDITIONAL INFORMATION FOR CONTAINMENT PURGE SYSTEM AND CONTAINMENT VEINTING SYSTEM FOR PRAIRIE ISLAND UNITS 1 & 2 DOCKET NOS. 50-282/306

1. With the exception of the containment ventilation isolation (CVI) system, the docketed information as to the design of Engineered Safety Features (ESF) does not adequately address the following areas. Please discuss how your ESF design conforms with each:

   1 - The overriding* of one type of safety actuation signal (e.g., radiation) should not cause the blocking of any other type of safety actuation signal (e.g., pressure) to the isolation valves.

   2 - Sufficient physical features (e.g., key lock switches) should be provided to facilitate adequate administrative controls.

   3 - The system-level annunciation of the overridden status should be provided for the containment isolation system and for every safet system impacted when an override is active.

   4 - Diverse signals should be provided to initiate isolation of the containment ventilation system. Specifically, containment high radiation, safety injection actuation, and containment high pressure should automatically initiate Containment Ventilation Isolation (CVI).

   5 - The instrumentation and control systems provided to initiate ESF should be designed and qualified as safety-grade equipment.

   6 - The overriding or resetting* of the isolation actuation signal should not cause the automatic motion of any ESF valve.

2. Provide the process and instrumentation (P&ID) and schematic drawings for your purge and vent system and control room heating, ventilation and air conditioning system.

3. With regard to Criterion 4 of question 1 above, justify not providing for containment ventilation isolation on high containment pressure.

4. With regard to Criterion 5 of question 1 above, please indicate if the radiation monitors that initiate CVI are Class 1E or not. If they are not justify their use for a required safety function.

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*The following definitions are given for clarity of use in this issue: Override - the signal is still present, and it is blocked in order to perform a function contrary to the signal; Reset - the signal has come and gone, and the circuit is being cleared to return to the normal condition.