

U.S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT

REGION III

Report No: 50-282/80-20; 50-306/80-20

Docket No: 50-282; 50-306

License No: DPR-42; DPR-60

Licensee: Northern States Power Company  
414 Nicollet Mall  
Minneapolis, MN. 55401

Facility Name: Prairie Island Nuclear Generating Plant

Inspection At: Prairie Island Site, Red Wing, MN.

Inspection Conducted: December 1-31, 1980

Inspectors:

*C. D. Feierabend*  
C. D. Feierabend

1/13/81

*B. L. Burgess*  
B. L. Burgess

1/13/81

Approved By:

*W. S. Little*

W. S. Little, Chief  
Reactor Projects Section 2

1/20/81

Inspection Summary

Inspection on December 1-31, 1980 (Report No. 50-282/80-20; 50-306/80-20)  
Areas Inspected: Routine Resident inspection of plant operation, maintenance, surveillance, security, radiation protection, preparation for refueling, followup on IE Bulletins and followup of licensee actions on previous inspection findings. The inspection involved 98 inspection hours onsite by two NRC inspectors including 5 hours onsite during offshifts.  
Results: No items of noncompliance or deviations were identified.

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## DETAILS

### 1. Personnel Contacted

F. Tierney, Plant Manager  
J. Brokaw, Plant Superintendent, Operations and Maintenance  
E. Watzl, Plant Superintendent, Plant Engineering and Radiation Protection  
A. Hunstad, Staff Engineer  
R. Lindsey, Superintendent, Operations  
J. Nelson, Superintendent, Maintenance  
J. Hoffman, Superintendent, Technical Engineering  
D. Mendele, Superintendent, Operations Engineering  
D. Schuelke, Superintendent, Radiation Protection  
R. Stenroos, Assistant Radiation Protection Superintendent  
A. Smith, Senior Scheduling Engineer  
M. Klee, Superintendent, Nuclear Engineering  
K. Albrecht, Superintendent, Quality Assurance  
D. Haugland, Engineer  
K. Beadell, Engineer  
D. Cragoe, Shift Supervisor  
P. **Ryan**, Shift Supervisor  
M. Balk, Shift Supervisor

### 2. Licensee Actions on Previous Inspection Findings

The inspector confirmed licensee corrective actions.

- a. (Closed) Noncompliance (306/78-23) Review and approval of relay test procedure.
- b. (Closed) Deviation (282/80-06; 306/80-07) Special inspection of motor starters on safety related systems.

### 3. Operational Safety Verification

#### a. General

Units 1 and 2 operated routinely throughout the month.

C. L. Miller, NRR, was a site visitor on December 10, 1980. Visit was related to NRR contract research program.

#### b. Control Room Observations

The inspector observed control room operations, reviewed applicable logs, conducted discussions with control room operators and observed shift turnovers. The inspector verified the operability of selected emergency systems, reviewed equipment control records, and verified proper return to service of affected components.

c. Tours

Tours of the auxiliary, turbine and containment buildings, and external areas were conducted to observe plant equipment conditions, including potential fire hazards, and to verify that maintenance requests had been initiated for equipment in need of maintenance. By observation and direct interview, the inspector verified that security procedures were being implemented in accordance with the plant security plan.

The inspectors observed plant housekeeping/cleanliness conditions, and verified implementation of radiation protection controls.

d. Independent Verification

The inspector performed a walkdown of the accessible portions of the fire protection (FP) system. This included confirmation of selected portions of the licensee's procedures, checklists, and plant drawings, inspection of condition of components and piping supports, inspection of breakers and cabinets, verification of selected instruments for proper valving, equipment control locks or tags and comparison of remote and local indication.

e. Spent Resin Cask

The inspector observed the transfer of spent resin from the spent resin tank to the spent resin cask. The inspection included review of the applicable plant procedures and technical specifications, observation of the preparation and radiological controls prior to resin transfer, the transfer of the resin, independent measurement and verification of radiation surveys made during and after resin transfer, insuring compliance with NRC and DOT transportation requirements, and interviews with plant personnel.

4. Maintenance

a. Review of Work Requests (WR's) and Work Request Authorizations (WRA's)

The inspector selected and reviewed several WR's and WRA's to determine the status of safety related systems, to verify that proper priorities were given and to verify that design changes were initiated where appropriate.

b. Observations

The inspector observed portions of safety related maintenance activities to determine that the activities did not violate limiting conditions for operation (LCO's), that administrative approvals and equipment control tags were completed prior to initiating the work, that approved procedures were used (or activity was within the "skills of the trade"), and that the procedures used were adequate to control the activity.

The inspector observed maintenance performed on Unit 2 chemical injection line to the auxiliary feedwater system, maintenance on No. 121 motor driven fire pump, and replacement of the Unit 1 reactor coolant filter.

5. Surveillance

The inspector observed SP-1093 - 4.16 KV Rejection-Restoration Scheme Surveillance and verified that testing was performed in accordance with adequate procedures, that limiting conditions for operation were met, that removal and restoration of the affected components were accomplished, and that test results conformed with Technical Specifications and procedure requirements.

6. I. E. Bulletins

The inspector completed review of the licensee's actions in response to the following Bulletins and verified that the required actions are complete.

- a. IEB 78-05      Circuit Breaker Auxiliary Contact Mechanism
- b. IEB 80-21      Valve Yokes Supplied by Malcom Foundary Co., Inc.

7. Preparation for Refueling

The inspector verified that approved procedures were available covering the receipt, inspection, and storage of new fuel, reviewed the qualification of fuel receipt and QA inspectors, observed the receipt inspection and storage of new fuel elements and verified these activities in adherence with the licensee's procedures.

No items of concern were identified.

8. Exit Interviews

The inspector conducted interim interviews during the inspection period and met with Mr. Tierney at the conclusion of the inspection. The inspector discussed the scope and results of the inspection.