

October 20, 1999

Mr. M. Wadley
President, Nuclear Generation
Northern States Power Company
414 Nicollet Mall
Minneapolis, MN 55401

SUBJECT: NRC INSPECTION REPORT 50-282/99008(DRS); 50-306/99008(DRS)

Dear Mr. Wadley:

On October 7, 1999, the NRC completed the pilot baseline maintenance rule implementation inspection at your Prairie Island Nuclear Generating Plant. The results of this inspection were discussed on August 20, 1999, with Mr. D. Schuelke, and other members of your staff. The enclosed report presents the results of this inspection.

The purpose of this pilot program inspection was to evaluate the effectiveness of the maintenance rule program and to review the periodic evaluation specifically required for 10 CFR 50.65 (the maintenance rule). The inspection consisted of a review of documents related to maintenance rule implementation as well as interviews with responsible personnel. No issues were identified.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be placed in the NRC Public Document Room.

We will gladly discuss any questions you have concerning this inspection.

Sincerely,

/s/ R. N. Gardner

Ronald N. Gardner, Chief
Electrical Engineering Branch

Docket Nos. 50-282; 50-306
License Nos. DPR-42; DPR-60

Enclosure: Inspection Report 50-282/99008(DRS); 50-306/99008(DRS)

See Attached Distribution

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M. Wadley

cc w/encl: Site General Manager, Prairie Island
Plant Manager, Prairie Island
S. Minn, Commissioner, Minnesota
Department of Public Service
State Liaison Officer, State of Wisconsin
Tribal Council, Prairie Island Dakota Community

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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Nos: 50-282; 50-306
License Nos: DPR-42; DPR-60

Report No: 50-282/99008(DRS); 50-306/99008(DRS)

Licensee: Northern States Power Company

Facility: Prairie Island Nuclear Generating Plant
Units 1 and 2

Location: 1717 Wakonade Dr. East
Welch, MN 55089

Dates: October 4 - 7, 1999

Inspector: M. J. Farber, Reactor Engineer

Approved by: Ronald N. Gardner, Chief, Electrical Engineering Branch
Division of Reactor Safety

SUMMARY OF FINDINGS

Prairie Island Nuclear Generating Plant, Units 1 & 2
NRC Inspection Report 50-282/99008(DRS); 50-306/99008(DRS)

This report covers the pilot baseline inspection of maintenance rule implementation. The inspection period was October 4 - 7, 1999 and was conducted by one regional inspector.

Cornerstone: Initiating Events

No findings were identified in this cornerstone.

Cornerstone: Mitigating Systems

No findings were identified in this cornerstone.

Cornerstone: Barrier Integrity

No findings were identified in this cornerstone.

Report Details

Summary of Plant Status

Both units operated at full power during the week of the inspection.

1. **REACTOR SAFETY**

Cornerstones: Initiating Events, Mitigating Systems, Barrier Integrity

1R12 Maintenance Rule Implementation (71111-12)

.1 Maintenance Effectiveness

a. Inspection Scope

The inspector reviewed the maintenance rule functional failure determinations, performance criteria, and risk significance classification for three systems: the steam exclusion, radiation monitoring, and service and instrument air systems. Additionally, the inspector reviewed the maintenance rule (a)(1) goals and corrective actions for all (a)(1) systems.

b. Observations and Findings

There were no findings identified and documented during this inspection.

.2 Periodic Evaluation Review

a. Inspection Scope

The inspector reviewed the licensee's periodic evaluation of maintenance rule effectiveness. This periodic evaluation was prepared as required by 10 CFR 50.65(a)(3). The licensee's conclusions with regard to reliability and availability balancing, (a)(1), and (a)(2) evaluations were examined by reviewing maintenance rule implementation for the steam exclusion, radiation monitoring, and service and instrument air systems.

b. Observations and Findings

There were no findings identified and documented during this inspection.

40A5 Management Meetings

.1 Exit Meeting Summary

The inspector presented the inspection results to Mr. D. Schuelke, and other members of licensee management in an exit meeting on October 7, 1999. The licensee acknowledged the information presented. No proprietary information was identified.

PARTIAL LIST OF PERSONS CONTACTED

Licensee

T. Amundson, Engineering
J. Gonyeau, Engineering
R. Hansen, Risk Assessment
M. Ladd, Project Manager
G. Lennertz, Maintenance
C. Mundt, Instrumentation and Control
D. Schuelke, Plant Manager
J. Sorensen, Site General Manager
R. Stenroos, Quality Assurance
B. Stephens, Engineering

NRC

S. Ray, Senior Resident Inspector
S. Thomas, Resident Inspector

LIST OF DOCUMENTS REVIEWED

Reports

- Third Quarter 1997 Quarterly Equipment Performance Report
- First Quarter 1998 Quarterly Equipment Performance Report
- Second Quarter 1998 Quarterly Equipment Performance Report
- Third Quarter 1998 Quarterly Equipment Performance Report
- Fourth Quarter 1998 Quarterly Equipment Performance Report
- First Quarter 1999 Quarterly Equipment Performance Report
- Second Quarter 1999 Quarterly Equipment Performance Report
- 1997 Equipment Performance Annual Report
- 1998 Equipment Performance Annual Report

Condition Reports

- 19971226, 2 Flow Totalizers found out of cal (+/-1%) by EEI 1R-37 Reading =1.4% and 2R-22 Reading +1.1%, dtd November 4, 1997
- 19980083, RGRS02 turbine - lost 10 MWE Rx pwr up tave down no control board alarms or abnormalities, dtd January 8, 1998
- 19980382, Repeated failures of air compressor unloader valves, dtd March 2, 1998
- 19981105, Steam Exclusion dampers located in a postulated environmentally harsh post-accident area, dtd May 21, 1998
- 19982493, scaffold installation interfered with CD-36036 operability, dtd October 12, 1998
- 19982851, Counterweight arm broken on CD-36052, dtd November 8, 1998

- 19991090, Damper gears failed receipt inspection due to lack of proper paperwork. Received 35 gears on PO# PN1127SQ Item #2, dtd March 30, 1999
- 19991234, Steam Exclusion Damper CD-34187 has visible gaps in blade mating surfaces, dtd April 7, 1999
- 19992225, USAR description and safety analysis for the Steam Exclusion System needs to be updated, dtd July 22, 1999

Work Orders

- 9801595, 1R-2 radiation monitor failed high when bugged, dtd March 11, 1998
- 9905451, 1R-2 failed hi, replaced detector, dtd May 19, 1999
- 9811397, 1R-15, source inserted partially (also spiking), dtd October 7, 1998
- 9711853, 1R-22 has a low flow condition, dtd October 12, 1997
- 9711888, 1R-22 has a low flow condition, dtd October 16, 1997
- 9811055, 1R-22 low flow condition (with low flow alarm), dtd September 17, 1998
- 9811721, 1R-22 low flow, dtd October 26, 1998
- 9905266, 1R-30 Spike caused start of Aux Bldg Special, dtd May 8, 1999
- 9907993, 1R-30 spiking caused aux bldg special start, dtd July 17, 1999
- 9908312, 1R-30 spiking, dtd August 10, 1999
- 9804040, 1R-52 meter indication low on scale, dtd April 30, 1998
- 9905808, 1R-52 reading offscale low, dtd June 4, 1999
- 9811723, 1R-11/12 blown fuse (post replace verification), dtd October 26, 1998
- 9712302, 1RM60 has failed, dtd November 2, 1997
- 9800871, 1R-60 "fail" alarm, dtd February 9, 1998
- 9811440, 1RM61, error code E0007, UDR not receiving data, dtd October 13, 1998
- 9800267, 2R-11 Sample pump stopped, dtd January 16, 1998
- 9809965, 2R-19 read low, detector replaced, dtd August 1, 1998
- 9709437, 2RD-39 downscale failure, dtd September 5, 1997
- 9800210, 2R50 sampling pump overheated and tripped, dtd January 14, 1998
- 98090741, 2R-7 remote alarm light does not work, dtd February 2, 1998
- 9711478, 2R-50 fail light not lit - bulb good, dtd February 2, 1998
- 9900057, 2RM-56 failed, Victoreen area monitor, dtd January 6, 1999
- 9812847, 2RM 58 failed, dtd December 7, 1998
- 9811805, Stack monitor hi level rad annunciator not working, dtd October 30, 1998
- 9808887, U2 ARM alarm won't reset (Victoreen area rad mon), dtd July 19, 1999
- 9812624, 1R-11 filter drive motor needs replacement, dtd November 27, 1998
- 9804385, 1R-15 check source stuck in, dtd May 27, 1998
- 9810461, 1R-15 check source broken, dtd August 21, 1998
- 9800952, 1R-52 ERCS Loop out of tolerance, dtd February 13, 1998
- 9811420, 2R-50 Coupling for motor/pump separated, dtd October 9, 1998
- 9801543, R-8 radiation monitor failed high when bugged, dtd March 9, 1998
- 9712252, R26, dtd October 30, 1997
- 9811877, R-26 seized sample pump, dtd October 31, 1998
- 9804179, R-27 failed quarterly source test SP1243, dtd May 8, 1998
- 9900901, RM-68 downscale failure, no response to source chk, dtd January 21, 1999
- 9905962, Replace sight glass and pipe union on 121 ac, dtd June 15, 1999
- 9715240, Investigate 122 inst a/c spurious shut-downs, dtd December 26, 1997

- 9811276, Repair CL leak on 124 sta air comp aftercooler, dtd September 29, 1998
- 9905888, 124 sa comp will not go to auto ready in standby, dtd June 9, 1999
- 9812198, Moisture separator sight glass has blown packing, dtd November 12, 1998
- 9715168, 122 instrument air dryer not operating right, dtd December 20, 1997
- 9905947, 123 station air dryer operating erratically, dtd June 14, 1999
- 9713473, 124 station air dryer exhaust vlv malfunction, dtd December 16, 1997
- 9901113, 124 station air dryer has no control power, dtd February 2, 1999
- 9901201, replace main circuit board in 124 sta air dryer, dtd February 2, 1999
- 9809898, 124 sta air comp air outlet temp gauge broke, dtd July 28, 1998
- 9803628, 121 air compressor aftercooler cv 31404, dtd April 3, 1998
- 9901083, repair drain leak on 122 air compressor discharge, dtd January 27, 1999
- 9905270, pnl test pb failed-sa compressor contr panel, dtd May 8, 1999
- 9801204, replace 122 air compressor unloader cv-31190, dtd February 28, 1998
- 9901084, replace 122 instr air compr unloader valve, dtd January 27, 1999
- 9904834, 122 station air comp unloader, cv-31190, dtd April 13, 1999
- 9800798, 124 sta air comp unloader cv, dtd February 4, 1998
- 9907733, test and install new valve for SA-56-4, dtd June 24, 1999
- 9907726, 22 DDCLP starting air relief SA-56-4 lifting, dtd June 24, 1999
- 9907749, Investigate problem with 123 inst air compr sv, dtd June 25, 1999
- 9905815, 125 a/comp clg supply valve not opening, dtd June 6, 1999
- 9812114, copper air supply line to CV-31329 new repair, dtd November 9, 1998
- 9800094, separated fitting on SA-53-8, dtd January 8, 1998
- 9800639, stm excl loop 15421 temp indicator failed low, dtd January 28, 1998
- 9711850, large temp differential, dtd October 11, 1997
- 9811103, temperature indicator TI-7005112 is reading low, dtd September 21, 1998
- 9803102, Damper did not seem to close as required, dtd January 19, 1998
- 9712182, CD-34147 train b limit switch needs alignment, dtd October 28, 1997
- 9901451, Dampers failed to close fully during SP-1113, dtd February 8, 1999
- 9901564, damper will not close, dtd February 12, 1999
- 9905436, CD-34187 spring closer needs re-work, dtd May 18, 1999
- 9901563, damper vane does not mate properly, dtd February 12, 1999
- 9904892, Aux bldg steam exclusion trn b damper improper, dtd April 16, 1999
- 9800252, Isolate steam excl dampers due to hi lkg on CD-34176, dtd January 16, 1998

Miscellaneous

- Maintenance Rule System Specific Basis Document - RD - Radiation Monitoring
- Maintenance Rule System Specific Basis Document - SA - Station & Instrument Air
- Maintenance Rule System Specific Basis Document - SE - Steam Exclusion