

U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No.: 50-282/88015(DRS)

Docket No.: 50-282

License No.: DPR-42

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

Facility Name: Prairie Island Nuclear Generating Plant, Unit 1

Inspection At: Prairie Island Site, Red Wing, MN

Inspection Conducted: September 1-2 and 15-16, 1988

Inspector: *K. D. Ward*  
K. D. Ward

*9/19/88*

Date

Approved By: *D. H. Danielson*  
D. H. Danielson, Chief  
Materials and Processes Section

*9/19/88*

Date

Inspection Summary

Inspection on September 1-2 and 15-16, 1988 (Report No. 50-282/88015(DRS))

Areas Inspected: Routine, unannounced safety inspection of inservice inspection (ISI) activities including review of program (73051), procedures (73052), observation of work activities (73753), and date review (73755).

Results: No violations or deviations were identified. The following are the the general conclusions reached during the inspection:

- The inservice inspection program was properly implemented.
- Personnel performing nondestructive examinations appeared to be knowledgeable and conscientious in their work.
- Management involvement in inservice inspection was evident.
- Activities examined were accomplished in accordance with established procedures by qualified personnel.

8809260235 880919  
PDR ADOCK 05000282  
Q PNU

## DETAILS

### 1. Persons Contacted

#### Northern States Power Company (NSP)

\*L. Dahlman, Senior Material and Special Processes Specialist  
J. Ricker, Superintendent, Material and Special Processes  
R. Kellerhall, Material and Special Processes Specialist  
S. Redner, Material and Special Processes Specialist  
J. Schanen, Material and Special Processes Specialist  
J. Bridgeman, Material and Special Processes Specialist

#### Nuclear Regulatory Commission (NRC)

\*C. Hard, Senior Resident Inspector

#### Lambert, MacGill, Thomas, Inc. (LMT)

D. MacGill, Supervisor, Level III

#### CONAM Inspection (CONAM)

B. Marlow, Supervisor

#### Westinghouse Electric Corporation (W)

R. Vollmer, Analyst

#### Hartford Steam Boiler Inspection and Insurance Company (HSB)

P. Fisher, ANII Supervisor  
T. Waldbilling, ANII

The inspector also contacted and interviewed other licensee and contractor employees.

\*Denotes those individuals present at the exit interview on September 16, 1988.

### 2. Inservice Inspection (ISI) Unit 1

#### a. General

This is the first outage of the second period of the second ten-year plan.

- (1) Lambert, MacGill, Thomas, Inc. (LMT), CONAM Inspection (CONAM), and Westinghouse Electric Corporation (W) performed the ISI in accordance with ASME Section, 1980 Edition, Winter 1981 Addenda. The Level II and III personnel UT were qualified at the EPRI NDE Center after September 10, 1985.

- (2) All manual UT was performed by LMT using the pulse-echo UT flaw detection instruments and various angles and MHZ transducers. Also, on many welds the master/slave ultrasonic system was used.
- (3) The eddy current examinations (ET) were performed by CONAM, and the results were evaluated by Westinghouse and CONAM. The ET covered 100% of all accessible tubing within steam generators (SG) Nos. 11 and 12.

b. Program and Procedures

The NRC inspector reviewed the ISI program and procedures and found them to be acceptable. NSP made no specific request for relief from the ASME Code in performing this ISI outage.

c. Review of Data, Audits and Certifications of Material, Equipment and Personnel

The NRC inspector reviewed documents relating to the following:

- (1) Ultrasonic instruments, calibration block, transducers and couplant certifications.
- (2) Liquid penetrant, cleaner and developer material certifications.
- (3) Magnetic particle, materials and equipment certifications.
- (4) Eddy current equipment certifications.
- (5) NDE personnel certifications in accordance with SNT-TC-1A.
- (6) Audits/Surveillances.
- (7) ISI Data Reports.
- (8) Eddy Current Reports -
  - ° Steam Generator 11 - 9 tubes were plugged, a total of 69 now plugged.  
No tube sleeving was performed this outage or before.
  - ° Steam Generator 12 - 8 tubes were plugged, a total of 71 now plugged.  
73 tubes were sleeved, a total of 100 now sleeved.

d. Observation of Work Activities

The NRC inspector observed work and had discussions with personnel during the ISI activities. These observations included the performance of the following:

- (1) Eddy current examination of several steam generator tubes on steam generators No. 11 and No. 12.
- (2) Master/slave ultrasonic system being used.
- (3) Independent eddy current examination data review by CONAM and Westinghouse.
- (4) Ultrasonic examination of Weld "E" in steam generator No. 11. Three teams were performing ultrasonic examinations at once, approximately 400" of weld.
- (5) Magnetic particle examination of primary inlet and outlet manway bolts for steam generator No. 12.
- (6) Liquid penetrant examination of weld #183 in the refueling water storage tank discharge line.

No violations or deviations were identified.

3. Exit Meeting

The inspector met with site representatives (denoted in Persons Contacted paragraph) at the conclusion of the inspection. The inspector summarized the scope and findings of the inspection noted in this report. The inspector also discussed the likely information content of the inspection report with regard to documents or processes reviewed by the inspector during the inspection. The licensee did not identify and such documents/processes as proprietary.