

June 21, 2001

Mr. J. Sorensen
Site Vice President
Prairie Island Nuclear Generating Plant
Nuclear Management Company, LLC
1717 Wakonade Drive East
Welch, MN 55089

SUBJECT: PRAIRIE ISLAND NUCLEAR GENERATING PLANT
NRC INSPECTION REPORT 50-282/01-12(DRS); 50-306/01-12(DRS)

Dear Mr. Sorensen:

On June 8, 2001, the NRC completed an inspection at your Prairie Island Nuclear Generating Plant. The enclosed report documents the inspection findings which were discussed on June 8, 2001, with Mr. M. Werner and other members of your staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel. Specifically, the inspection focused on permanent plant modifications.

No findings of significance were identified.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/NRC/ADAMS/index.html> (the Public Electronic Reading Room).

Sincerely,

/RA by John Jacobson Acting For/

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

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

Enclosures: 1. Inspection Report 50-282/01-12 (DRS)
50-306/01-12 (DRS)
2. Prairie Island Modification Inspection Document Request

See Attached Distribution

cc w/encl: Plant Manager, Prairie Island
R. Anderson, Executive Vice President
and Chief Nuclear Officer
Site Licensing Manager
Nuclear Asset Manager
J. Malcolm, Commissioner, Minnesota
Department of Health
State Liaison Officer, State of Wisconsin
Tribal Council, Prairie Island Indian Community
J. Silberg, Esquire
Shawn, Pittman, Potts, and Trowbridge
A. Neblett, Assistant Attorney General
Office of the Attorney General
S. Bloom, Administrator
Goodhue County Courthouse
Commissioner, Minnesota Department
of Commerce

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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: 50-282/01-12 (DRS); 50-306/01-12 (DRS)

Licensee: Nuclear Management Company, LLC

Facility: Prairie Island Nuclear Generating Plant

Location: 1717 Wakonade Drive East
Welch, MN 55089

Dates: June 4 through June 8, 2001

Inspectors: H. Walker, Team Leader
Z. Falevits, Inspector
D. Jones, Inspector

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

SUMMARY OF FINDINGS

IR 05000282-01-12(DRS), IR 05000306-01-12(DRS), on 06/04 - 06/08/2001, Nuclear Management Company, LLC, Prairie Island Nuclear Generating Plant. Evaluation of Permanent Plant Modifications Report.

The report covers a five day announced inspection, conducted by three Region III based reactor inspectors. No findings of significance were identified. The significance of most findings is indicated by their color (Green, White, Yellow, Red) using IMC 0609 "Significance Determination Process" (SDP). The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described at its Reactor Oversight Process website at <http://www.nrc.gov/NRR/OVERSIGHT/index.html>. Findings for which the SDP does not apply are indicated by "No Color" or by the severity level of the applicable violations.

A. Inspector Identified Findings

Cornerstones: Initiating Events, Mitigating Systems, Barrier Integrity

No findings of significance were identified.

Report Details

Summary of Plant Status

Unit 1 was at 100 percent power throughout the inspection period. Unit 2 was shutdown for repairs for three days of the inspection but was restarted on 06/07/01 and was at 100 percent power at the end of the inspection on 06/08/01.

1. REACTOR SAFETY

Cornerstones: Initiating Events, Mitigating Systems, and Barrier Integrity

1R17 Permanent Plant Modifications (71111.17)

.1 Review of Recent Permanent Plant Modifications

a. Inspection Scope

The inspectors reviewed eleven permanent plant modifications that had been installed during the last two years. The modifications were chosen based upon the effect on systems that had high probabilistic risk analysis significance in the licensee's Individual Plant Evaluation or high maintenance rule safety significance. The modifications were reviewed to verify that the completed design changes were in accordance with specified design requirements and the licensing bases and to confirm that the changes did not affect the modified system or other systems' safety function. Twelve calculations, which were performed or revised to support modifications, were also reviewed. Design and post-modification testing aspects were reviewed to verify the system, and associated support systems functioned properly. The inspectors also verified that the completed modifications did not place the plant in an increased risk configuration.

In addition to the above, the inspectors reviewed the control and evaluation of replacement material, parts, and components. Records for four Substitute Part/Component Equivalency Evaluation items and five commercial grade evaluation items were reviewed to verify that the replacement material, parts and components had been properly evaluated to ensure that they would adequately perform required safety related functions. Evaluations should verify that the replacements would meet functional, environmental, and seismic requirements and were compatible with other plant structures and components. In addition the actions on the replacement items were reviewed to verify that use of the modification process was not required and that inspections and tests necessary to determine the acceptability of the replacement parts were satisfactorily completed.

b. Findings

No findings of significance were identified.

4. OTHER ACTIVITIES (OA)

4OA2 Identification and Resolution of Problems

a. Inspection Scope

The inspectors reviewed a selected sample of condition reports associated with Prairie Island's permanent plant modifications to verify that the licensee had an appropriate threshold for identifying issues and to verify the effectiveness of corrective actions for the identified issues. Licensee assessments and audits in this area were also reviewed to verify and evaluate licensee problem identification.

b. Findings

No findings of significance were identified.

4OA6 Meetings

Exit Meeting

The inspectors presented the inspection results to Mr. M. Werner and other members of licensee management at the conclusion of the inspection on June 8, 2001. The licensee acknowledged the findings presented. No proprietary information was identified.

KEY POINTS OF CONTACT

Licensee

T. Allen, General Superintendent of Engineering (NGS)
T. Amundson, General Superintendent of Engineering (Plant)
T. Breen, Nuclear Performance Assessment Engineer
J. Chitty, Superintendent of Business Support
G. Gore, Superintendent Civil/Mechanical Engineering
J. Kivi, Licensing Engineer
L. Vale, Quality Assurance Engineer
M. Werner, Plant Manager

NRC

S. Thomas, Resident Inspector

LIST OF DOCUMENTS REVIEWED

The following is a list of licensee documents reviewed during the inspection, including documents prepared by others for the licensee. Inclusion on this list does not imply that NRC inspectors reviewed the documents in their entirety, but, rather that selected sections or portions of the documents were evaluated as part of the overall inspection effort. Inclusion on this list does not imply NRC acceptance of the document, unless specifically stated in the inspection report.

Modifications/Design Change Packages

86L951	Limitorque L.S. Rotor Contact Changes	Revision 0
97FP26	Diesel Generator Source Breaker Modification	Revision 0
97ZN02	Control Room Air Handler Damper Replacement	Revision 0
98FP01	MOV Hot Short	Revision 0.
98RV06	Full Length Control Rod Drive Mechanism Lower Canopy Seal Weld Overlay	Revision 0
99DC03	125 VDC Circuit Relocation Project	Revision 0
99EB01	1T1/1T2 Transformer Switches	Revision 0
99SF02	Replace 122 Spent Fuel Pool Heat Exchanger	Revision 0
99SI02	Re-Power RHR Sump B Suction Valves	Revision 0
99SI03	Nitrogen Supply to Accumulator	Revision 0
00RH01	Install Trolley Beams for RHR Pits	Revision 0

Calculations

ENG-CS-132	Seismic Criteria for Control Room Dampers,	Revision 0.
ENG-CS-144-2	CCHX End-Bell Lifting Device Trolley Beam 1 and 2	Revision 0.
ENG-CS-186	Unit 1 Condenser Storage Pit Ladder/Guard Rail/Jib Crane	Revision 0.
ENG-EE-018	Diesel Generator Sequence Loading for an SI Event Occurring with a Loss of Offsite Power (LOOP) for D1, D2, D5 &D6	May 13, 1994
ENG-EE-021	Diesel Generator Sequence Loading for an SI Event Occurring with a Loss of Offsite Power (LOOP) for D1, D2, D5 &D6	Revision 2.
ENG-EE-045	Diesel Generator Steady State Loading for a Loop Coincident with an SBO	Revision 3.
ENG-EE-127	Cable Sizing Calculation for Six Motor Valves for Project 98EB02	Revision 0
ENG-EE-128	DC Voltage Drop Calculation for 98ZN04	September 16, 1999
ENG-EE-133	Thermal Overload and Circuit Breaker Sizing for MOV-32180 and 32181	May 5, 2000
ENG-ME-405	Damper Supports in Mechanical Equipment Room AB	Revision 0.
ENG-ME-430	Nitrogen Injection for RCS Drain Down	Revision 0.
SPC-EG-0011 D1/D2	Emergency Diesel Generator Fuel Oil Day Tank Level Switch Set-points	Revision 1.

Procedures

5AW1 6.1.0 Design Change General Revision 3

Condition Reports (written as a result of this inspection)

20014898 Follow-up to NRC Inspection questions, evaluate the application of the SPCE process relating to PI facility changes June 7, 2001.

Design Related Condition Reports (written prior to this inspection)

19992604	Steam Exclusion Boundary Block Walls	September 3, 1999
19993183	Line numbers 3,4, and 5 of Purchase Order 1020SQ had different part numbers than the requisition without a SPCE being issued	November 10, 1999
19993184	Failure to prepare a formal design change or equivalency evaluation for 121/122 control room chiller room dead bolts	November 10, 1999
20000512	Concrete anchors did not meet the final embedment depth specified	March 2, 2000
20000804	Engineering was planning to perform an unauthorized modification utilizing the work control process	March 23, 2000
20002461	Installation of Fire Damper VFD-62 has taken an excessive amount of time to complete due to poor design and preparation	June 29, 2000
20003060	D1/D2 load sequence DC power supply	August 17, 2000
20004336	The welding outlet in the north warehouse was wired incorrectly, which led to damage to the cask transport vehicle pump	October 10, 2000
20004811	Reactor makeup flow transmitters for Volume Control Blenders are inaccurate, obsolete and need to be replaced	October 27, 2000
20011357	Feedwater flow control valve solenoid valves incorrectly downgraded to commercial grade by safety evaluation #386	February 8, 2001.
20012995	Modification self-assessment recommended actions to improve modification process	March 30, 2001

Substitute Part/Component Equivalency Evaluation

ME-0164	RCP Seal Return MOV Motor Upgrade	February 4, 2000
ME-0220	Change of material for the Pressurizer PORV Diaphragm	March 20, 2000
ME-0314	High Temperature O Rings for RCP Seals	March 14, 2000
ME-0336	Charging Pump Drive Shaft Keyway Dimensions	July 25, 2000

Commercial Grade Evaluation

CGE # PI-0052	Containment Penetration Blank Flange "O" Rings	Revision 2
CGE # PI-0151	Framatome-Burndy Calibration Service	Revision 2
CGE # PI-0204	MKS Instrument, Inc. Calibration Services	Revision 1
CGE # PI-0261	CC Heat Exchanger Relief Valve Piece Parts	
	Consolidated Series 1975/1970	Revision 1
CGE # PI-0315	Velan 8" Globe and Gate Valves	Revision 0

Self-Assessments and Audits

AG2000-E-1	Internal Audit of Modifications	January 31 to March 31, 2000
	Modification Process Effectiveness Self-Assessment	Report Issued March 31, 2001

Enclosure

PRAIRIE ISLAND MODIFICATION INSPECTION

INITIAL DOCUMENT REQUEST
(Sent to Resident/Licensee on 4/5/01)

I. Inspection Preparation Information

The following information will be needed to prepare for the biennial permanent plant modifications inspection, which is scheduled to be conducted at Prairie Island from June 4 through June 8, 2001. Please provide the requested information by Friday, May 25, 2001, to facilitate the selection of items for review during the onsite inspection week.

- Current Plant Organization Charts.
- Design Change and modification procedures including post modification testing.
- List of permanent plant modifications to risk significant SSCs involving:
(a) permanent plant changes; (b) design changes; (c) set point changes;
(d) equivalency evaluations; (e) suitability analyses; (f) calculations; (g)
commercial grade dedications. ¹
- Provide copies of Q. A. audits, self-assessments and outside organization audits conducted on design changes and permanent plant modifications with any associated condition reports generated as a result of these activities. ¹
- List of condition reports (open and closed) written to address plant design problems or modification issues or concerns. ¹
- List of setpoint changes. ¹

¹ Provide information requested going back two years.

II. Information to be Provided or Available During the Inspection

Copies should be provided where specified. For example, the specific information selected for review during the preparation week and requested should be available for review on the first day of the on-site inspection. Other documents listed in this section should be readily available and easily accessible to the inspectors but do not need to be solely available for the inspection team's use only.

- The specific information selected for review during the inspection preparation week should be available and ready for review on the first day of the on-site inspection.
- Copies of any self-assessments and associated condition reports generated in preparation for the permanent plant modifications inspection.
- Copies of the list of questions submitted by the team members and the status/resolution of the information requested (provide to the team leader daily during the inspection).
- Copies of Condition Reports generated during this inspection as a result of the team's findings.
- Updated Final Safety Analysis Report
- Plant Technical Specifications (TSS)
- Latest IPE/PRA report
- Vendor manuals and equipment qualification binders to be available on request.