

PrairielslandNPEm Resource

From: Richard Plasse
Sent: Monday, February 23, 2009 8:00 AM
To: Vincent, Robert; Eckholt, Gene F.
Subject: Followup RAI
Attachments: PINGP RAI AMR#2 LETTER.doc

Hearing Identifier: Prairie_Island_NonPublic
Email Number: 743

Mail Envelope Properties (Richard.Plasse@nrc.gov20090223080000)

Subject: Followup RAI
Sent Date: 2/23/2009 8:00:00 AM
Received Date: 2/23/2009 8:00:00 AM
From: Richard Plasse

Created By: Richard.Plasse@nrc.gov

Recipients:

"Vincent, Robert" <Robert.Vincent@xenuclear.com>
Tracking Status: None
"Eckholt, Gene F." <Gene.Eckholt@xenuclear.com>
Tracking Status: None

Post Office:

Files	Size	Date & Time
MESSAGE	3	2/23/2009 8:00:00 AM
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Options

Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

February 20, 2009

Mr. Michael D. Wadley
Site Vice President
Prairie Island Nuclear Generating Plant,
Units 1 and 2
Northern States Power Company, Minnesota
1717 Wakonade Drive East
Welch, MN 55089

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNITS 1 & 2,
LICENSE RENEWAL APPLICATION (TAC Nos. MD8513 AND MD8514)

Dear Mr. Wadley:

By letter dated April 11, 2008, Nuclear Management Company, LLC (NMC), now known as Northern States Power Company, Minnesota (NSPM), submitted an application pursuant to Title 10 of the Code of *Federal Regulations* Part 54 (10 CFR Part 54) to renew the operating license for Prairie Island Nuclear Generating Plant, Units 1 and 2, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review. Further requests for additional information may be issued in the future.

Items in the enclosure were discussed with Gene Eckholt, of your staff, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-1427 or e-mail Richard.Plasse@nrc.gov.

Sincerely,

/RA/

Richard Plasse, Project Manager
Projects Branch 2
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-282 and 50-306

Enclosure:
As stated

cc w/encl: See next page

February 20, 2009

Mr. Michael D. Wadley
Site Vice President
Prairie Island Nuclear Generating Plant,
Units 1 and 2
Northern States Power Company, Minnesota
1717 Wakonade Drive East
Welch, MN 55089

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNITS 1 & 2, LICENSE
RENEWAL APPLICATION (TAC Nos. MD8513 AND MD8514)

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Sincerely,

/RA/

Richard Plasse, Project Manager
Projects Branch 2
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-282 and 50-306

Enclosure:
As stated

cc w/encl: See next page

ADAMs Accession Number: **ML090340684**

OFFICE	LA:DLR	PM:RPB2:DLR	BC:RPB2:DLR
NAME	SFigueroa	RAPlasse	DWrona
DATE	02/4/09	02/18/09	02/20/09

OFFICIAL RECORD COPY

Letter to M. Wadley from R. Plasse, dated February 20, 2009

DISTRIBUTION:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
PRAIRIE ISLAND NUCLEAR GENERATING PLANT, UNITS 1 & 2,
LICENSE RENEWAL APPLICATION (TAC NOS. MD8513 AND MD8514)

HARD COPY:

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E-MAIL:

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T. Wengert

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RidsOGCMailRoom Resource

DLR/REBB

Prairie Island Nuclear Generating Plant,
Units 1 and 2

cc:

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Request for Additional Information (RAI) 4.3.1-1

The Prairie Island Nuclear Generating Plant (PINGP) metal fatigue of reactor coolant pressure boundary management program relies on transient cycle monitoring to evaluate the fatigue usage described in the license renewal application. This approach tracks the number of occurrences of significant thermal and pressure transients (significant events) and compares the cumulative cycles, projected to cover the renewal period, against the number of design cycles specified in the design specifications. The projected cycles are then used to evaluate the total cumulative usage factor (CUF) which covers the period of extended operation. For this approach to work, none of the significant events tracked should produce stresses greater than those that would be produced by the design transients. That is, the P-T (Pressure and Temperature) characteristics, including their values, ranges, and rates, all must be bounded within those defined in the design specifications.

- (a) Please describe the procedures that PINGP has been using for tracking thermal activities so the staff can confirm that the PINGP aging management program will ensure that P-T characteristics, including their values, ranges, and rates remain bounded within the range defined in the design specifications during the renewed license term.
- (b) Please provide a histogram (cycle accumulating charts) of heatup transient history, and a histogram for the cooldown transient as well.

RAI 3.3.2.9-2

In License Renewal Application (LRA) Table 3.3.2-9, page 3.3-198, 199 and 200, fire protection system, for copper alloy heat exchanger components and heat exchanger tubes in an internal environment of raw water, PINGP has credited the Fire Water System Program to manage the aging effects loss of material and heat transfer degradation. These lines reference footnote E, and NUREG-1801, "Generic Aging Lessons Learned (GALL) Report," Revision 1, item VII.C1-3. The GALL Report item recommends AMP XI.M20, Open-Cycle Cooling Water Program to manage these aging effects for heat exchangers. The GALL AMP recommends chemical treatment whenever the potential for biofouling species exists as part of the preventive actions and a test program to verify heat transfer capabilities.

Please justify why Open-Cycle Cooling Water System Program is not used.

ENCLOSURE