

May 16, 2005

Mr. Joseph Solymossy
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, UNITS 1 AND 2
NOTIFICATION OF NRC INSPECTION AND REQUEST FOR INFORMATION

Dear Mr. Solymossy:

On July 11, 2005, the NRC will begin the Biennial Heat Sink Performance Inspection at the Prairie Island Nuclear Generating Plant, Units 1 and 2. This on-site inspection is scheduled to be performed beginning the week of July 11, 2005, and is scheduled to conclude on July 15, 2005.

It is expected that this inspection will be resource intensive both for the NRC inspector and your staff. In order to minimize the impact to your on-site resources and to ensure a productive inspection for both sides, we have enclosed a request for documents needed for this inspection. It is important that all of these documents are up to date and complete in order to minimize the number of additional documents requested during the inspection. These documents are needed by June 27, 2005, so that we may start our review of these documents. This information should be sent to the Region III office in hard copy (or CD), in care of Mr. Mel Holmberg.

We have discussed the detailed schedule for these inspection activities with Mr. J. Kivi your staff and understand that our regulatory contact for this inspection will be Mr. J. Kivi of your organization. If there are any questions about this inspection or the material requested, please contact the inspector Mr. Mel Holmberg at (630) 829-9748 or msh@NRC.gov.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's

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document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA by Ann Marie Stone Acting for/

David Hills, Chief
Engineering Branch 1
Division of Reactor Safety

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

Enclosure: BIENNIAL HEAT SINK INSPECTION REQUEST

cc w/encl: C. Anderson, Senior Vice President, Group Operations
J. Cowan, Executive Vice President and Chief Nuclear Officer
Regulatory Affairs Manager
J. Rogoff, Vice President, Counsel & Secretary
Nuclear Asset Manager
Tribal Council, Prairie Island Indian Community
Administrator, Goodhue County Courthouse
Commissioner, Minnesota Department
of Commerce
Manager, Environmental Protection Division
Office of the Attorney General of Minnesota

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Manager, Environmental Protection Division
Office of the Attorney General of Minnesota

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DATE	05/09/05	05/09/05	05/16/05		

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BIENNIAL HEAT SINK INSPECTION DOCUMENT REQUEST

- A.** The components selected for detailed review during this baseline inspection are the Unit 1 No. 12 Component Cooler Water heat exchanger (HX) and Unit 2 No. 22 Component Cooler Water HX and the Unit 1 motor driven auxiliary feedwater (AFW) pump lube oil coolers. For these components please provide:
1. Copy of the two most recently completed tests confirming thermal performance of each HX. Include documentation and procedures that identify the types, accuracy, and location of any special instrumentation used for these tests (e.g., high accuracy ultrasonic flow instruments or temperature instruments). Include calibration records for the instruments used during these tests.
 2. Copy of the evaluations of data for the two most recent completed tests confirming the thermal performance of each HX.
 3. Copy of the calculation which establishes the limiting (maximum) design basis heat load which is required to be removed by each of these HXs.
 4. Copy of the calculation which correlates surveillance testing results from these HXs with design basis heat removal capability (e.g., basis for surveillance test acceptance criteria).
 5. The clean and inspection maintenance schedule for each HX, including justifications for the schedule if it has been increased since the Generic Letter (GL) 89-13 program was implemented.
 6. For the last two clean and inspection activities completed on each HX, provide a copy of the document describing the inspection results including pictures (if available) of the as found conditions. Also, provide the HX cleaning schedule and basis for this schedule.
 7. Provide a copy of the document which identifies the current number of tubes in service for each heat exchanger and the supporting calculation which establishes the maximum number of tubes which can be plugged in each HX.
 8. Copies of the procedures used to monitor or inspect heat exchanger performance.
 9. Copy of the design specification and heat exchanger data sheets for each HX.
 10. Copy of the vendor/component drawing for each HX.
 11. Provide a list of issues with a summary of your corrective action system associated with these HXs in the past three years.
 12. Provide a list of calculations with a description which currently apply to each HX.

13. Provide HX performance trending data tracked for each HX.
14. Provide the Design Basis Documents for the above listed HXs.
15. System health report(s), maintenance rule system notebooks for these HX(s).
16. Copies of procedures developed to implement the recommendations of GL 89-13, "Service Water System Problems Affecting Safety-Related Equipment."
17. List of operability evaluations currently relied upon and those that were previously (past two years) relied upon for operability.
18. List of engineering-related Operator Workarounds/Temporary Modifications for these HX(s).
19. Copy of HX self-assessments and audits for HX(s).
20. Updated Final Safety Analysis Report pages for these HX(s).
21. Information regarding any alarms which monitor on-line performance of these HXs.
22. Copy of calculations which evaluate the potential for water hammer or excessive tube vibration in these HXs.
23. A description of the regulatory and technical basis for excluding the motor driven AFW pump lube oil coolers from the GL 89-13 program. Provide the records/ calculations that demonstrate adequate AFW pump motor lube oil cooler performance under operating conditions where service water is used to cool the AFW pump lube oil cooler (e.g., evaluation of fouling factors changes and impact on lube oil cooler performance when operating on service water and identify the required mission time for the coolers under these operating conditions).

B. Also please provide:

1. Copy of the procedures which describe the methods taken to control water chemistry in the service water systems, including any provisions for controlling biotic fouling.
2. Copy of the last completed surveillance procedure which verifies that the service water systems are free from clogging due to macrofouling (i.e., silt, dead mussel shells, debris, etc.).
3. Copy of the procedure and last test results which show that the overall functionality of service water systems in relation to minimum wall thickness corrosion or erosion, especially in low flow areas.

4. Copies of procedures and your design basis documents which address ultimate heat sink functionality during adverse weather conditions, such as extreme cold or hot temperatures, and during incursion of seasonal aquatic material, and to control the buildup of silt and sediment. Include the two most recent inspection records documenting the amount of silt and sediment buildup in the intake structures and associated ultimate heat sink. Also, provide the schedule of silt and sediment cleaning of the intake structures and associated ultimate heat sink and basis for that schedule.
5. Copies of correspondence and NRC commitments in response to GL 89-13 and list of plant heat exchangers that are within the scope of your commitments under GL 89-13.