

August 13, 2007

Mr. Timothy J. O'Connor
Site Vice President
Monticello Nuclear Generating Plant
Nuclear Management Company, LLC
2807 West County Road 75
Monticello, MN 55362-9637

SUBJECT: MONTICELLO NUCLEAR GENERATING PLANT
NOTIFICATION OF AN NRC BIENNIAL HEAT SINK PERFORMANCE
INSPECTION AND INFORMATION REQUEST

Dear Mr. O'Connor:

On September 10, 2007, the NRC will begin the onsite portion of the Biennial Heat Sink Performance Inspection at your Monticello Nuclear Generating Plant. This inspection will be performed in accordance with NRC baseline Inspection Procedure (IP) 71111.07. The heat exchangers selected for detailed review during this baseline inspection are the motor cooler for the 13 Residual Heat Removal Pump (P-202C) and the motor cooler for the 14 Residual Heat Removal Service Water Pump (P-109D).

In order to minimize the impact that the inspection has onsite and to ensure a productive inspection, we have enclosed a request for documents needed for the inspection. The documents have been divided into two groups. The first group lists information necessary to ensure the inspector is adequately prepared for the inspection. This information must be sent to the following e-mail address gfo@nrc.gov, no later than August 30, 2007, to ensure that we may review these documents before the onsite inspection. A hard-copy with the required information is also an acceptable option.

The second group of documents requested are those items that the inspector will review or need access to during the onsite inspection. It is important that these documents be as complete as possible to minimize the number of documents requested during the preparation week or during the onsite inspection. The information requested should include the time period from the onsite inspection to the last Heat Sink Performance Inspection. If nothing addressing the request was done in that time period, then the request applies to the last applicable documents in the previous time period.

The lead inspector for this inspection is Gerard O'Dwyer. If there are questions about the material requested, or the inspection, please call Mr. O'Dwyer at (630) 829-9624.

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

Sincerely,

/RA/

Ann Marie Stone, Chief
Engineering Branch 2
Division of Reactor Safety

Docket No. 50-263
License No. DPR-22

Enclosure: BIENNIAL HEAT SINK INSPECTION
Initial Document Request

cc w/encl: M. Sellman, President and Chief Executive Officer
D. Cooper, Senior Vice President and Chief
Nuclear Officer
Manager, Nuclear Safety Assessment
J. Rogoff, Vice President, Counsel, and Secretary
Nuclear Asset Manager, Xcel Energy, Inc.
State Liaison Officer, Minnesota Department of Health
R. Nelson, President
Minnesota Environmental Control Citizens
Association (MECCA)
Commissioner, Minnesota Pollution Control Agency
D. Gruber, Auditor/Treasurer,
Wright County Government Center
Commissioner, Minnesota Department of Commerce
Manager - Environmental Protection Division
Minnesota Attorney General's Office

T. O'Connor

-2-

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

Sincerely,

/RA/

Ann Marie Stone, Chief
Engineering Branch 2
Division of Reactor Safety

Docket No. 50-263
License No. DPR-22

Enclosure: BIENNIAL HEAT SINK INSPECTION
Initial Document Request

cc w/encl: M. Sellman, President and Chief Executive Officer
D. Cooper, Senior Vice President and Chief
Nuclear Officer
Manager, Nuclear Safety Assessment
J. Rogoff, Vice President, Counsel, and Secretary
Nuclear Asset Manager, Xcel Energy, Inc.
State Liaison Officer, Minnesota Department of Health
R. Nelson, President
Minnesota Environmental Control Citizens
Association (MECCA)
Commissioner, Minnesota Pollution Control Agency
D. Gruber, Auditor/Treasurer,
Wright County Government Center
Commissioner, Minnesota Department of Commerce
Manager - Environmental Protection Division
Minnesota Attorney General's Office

DOCUMENT NAME: C:\FileNet\ML072260300.wpd

☐ Publicly Available

☐ Non-Publicly Available

☐ Sensitive

☐ Non-Sensitive

To receive a copy of this document, indicate in the concurrence box "C" = Copy without attach/encl "E" = Copy with attach/encl "N" = No copy

OFFICE	RIII		RIII		RIII		RIII	
NAME	GO'Dwyer: Is		AMStone					
DATE	08/ /07		08/ /07					

OFFICIAL RECORD COPY

Letter to Mr. T. O'Connor from Ms. A. M. Stone dated August 13, 2007.

SUBJECT: MONTICELLO NUCLEAR GENERATING PLANT
NOTIFICATION OF AN NRC BIENNIAL HEAT SINK PERFORMANCE
INSPECTION AND INFORMATION REQUEST

DISTRIBUTION

TEB

PST

RidsNrrDirslrib

MAS

KGO

CST1

CAA1

DRSIII

PLB1

TXN

ROPreports@nrc.gov

BIENNIAL HEAT SINK PERFORMANCE INSPECTION DOCUMENT REQUEST
Initial Document Request

Inspection Report: 05000263/2007004(DRS)

Inspection Dates: Onsite September 10 - 14, 2007

Inspection Procedure: IP 71111.07, Biennial "Heat Sink Performance Inspection"

Lead Inspector: Gerard O'Dwyer
(630) 829-9624, gfo@nrc.gov

I. Information Requested Expedientiously

The following information is requested to be provided to the Region III office as soon as possible, but no later than August 30, 2007, to support the biennial "Heat Sink Performance Inspection," IP 71111.07. If some of the activities are not performed by your program, please note that fact. The information requested should include the time period from the onsite inspection to the last Heat Sink Performance Inspection. If nothing addressing the request was done in that time period then the request applies to the last applicable document in the previous time period. Unless otherwise specified, all the below requests are for the selected heat exchangers (HX(s)):

- the motor cooler for the 13 Residual Heat Removal Pump (P-202C); and
 - the motor cooler for the 14 Residual Heat Removal Service Water Pump (P-109D).
1. Copies of the two most recent completed tests confirming thermal performance for those heat exchangers which are performance tested.
 2. A list of corrective action program documents (with a short description) associated with heat exchangers, heat sinks, silting, corrosion, fouling, or heat exchanger testing, that are documented in your corrective action system (for the previous two years, or since the last biennial heat sink inspection), this request is for all the Generic Letter (GL) 89-13 HX(s) and the ultimate heat sink.
 3. Copy of system description and design basis document for the heat exchangers under review (as applicable).
 4. Copy of any operability determinations or other documentation of degradation associated with the heat exchangers or the systems that support the operation of the heat exchangers.

BIENNIAL HEAT SINK PERFORMANCE INSPECTION DOCUMENT REQUEST
Initial Document Request

5. Copy of any self-assessment done on any of the licensee's heat exchanger programs (e.g., Generic Letter 89-13 heat exchanger program) or on the sample heat exchangers.
6. A schedule of all inspections, cleanings, maintenance, or testing of any plant heat exchanger to be done during the onsite portion of the inspection.
7. Listing of the GL 89-13 heat exchangers by risk significance.
8. Maximum Emergency Service Water (ESW) system inlet temperature limit that still allows full licensed power operation of the nuclear reactor. Please provide the document that requires this limit and the operating procedure that ensures this limit is not exceeded.
9. Copy of the evaluations of data for the two most recent completed tests confirming the thermal performance of each heat exchanger.
10. Provide copy of the calculation which establishes the limiting (maximum) design basis heat load which is required to be removed by each of these heat exchangers.
11. Copy of the calculation which correlates surveillance testing results from these heat exchangers with design basis heat removal capability (e.g., basis for surveillance test acceptance criteria).
12. Copy of the document of inspection results for the last two clean and inspection activities completed on each heat exchanger.
13. Provide a list of calculations with a description which currently apply to each HX.
14. System health report(s) and maintenance rule system notebooks for these HX(s).
15. List of engineering-related Operator Workarounds/Temporary Modifications for these HX(s) since the last Heat Sink Performance.
16. Please provide documentation describing any events, issues or conditions involving the degradation or loss of both the normal and/or the ultimate heat sinks.
17. Information regarding any alarms which monitor on-line performance of these HX(s).
18. Copy of heat exchanger performance trending data tracked for each heat exchanger.

BIENNIAL HEAT SINK PERFORMANCE INSPECTION DOCUMENT REQUEST
Initial Document Request

19. Please provide the licensing basis definition of the Ultimate Heat Sink (UHS) as stated in the appropriate design document, e.g., Technical Specifications or Updated Final Safety Analysis Report.
20. Please provide the latest General Electric evaluation done this year for the motor cooler for the 13 Residual Heat Removal Pump (P-202C).

II. Information Requested to be Available on First Day of Inspection

The following requests are only for the two HXs selected as samples unless otherwise stated. We request that the following information be available to the inspector upon his arrival onsite, September 10, 2007:

1. For the two most recently completed tests confirming thermal performance of the sample heat exchangers, please provide 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. The clean and inspection maintenance schedule for each heat exchanger for the next five years.
3. 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 heat exchanger.
4. Copy of the document establishing the repair criteria (plugging limit) for degraded tubes which are identified in each heat exchanger.
5. Copy of the design specification and heat exchanger data sheets for each heat exchanger.
6. Copy of the vendor manuals including component drawings for each heat exchanger.
7. Copy of the calculations or documents which evaluate the potential for water hammer or excessive tube vibration in the heat exchanger or associated piping.
8. Copies of those documents that describe the methods taken to control water chemistry in the heat exchangers.
9. Copies of the documents that verify the following for the ultimate heat sink:

BIENNIAL HEAT SINK PERFORMANCE INSPECTION DOCUMENT REQUEST
Initial Document Request

- Functionality during adverse weather conditions, e.g., high temperatures or frazil ice; and
 - adequate controls in place for biotic fouling.
10. Copies of the documents that verify flow testing was done at maximum design flow during the last two years or since the last time it was done. Copies of the documents that verify maximum design flow testing will continue to be periodically done in the future.
 11. Copies of the documents that verify the structural integrity of the heat exchanger, e.g., eddy current summary sheets, ultrasonic testing results, and visual inspection results.
 12. Provide the Design Basis Documents for the above listed Hxs.
 13. Copies of procedures developed to implement the recommendations of GL 89-13, "Service Water System Problems Affecting Safety-Related Equipment," e.g., the GL 89-13 Heat Exchanger Program description.
 14. Updated Final Safety Analysis Report pages for these HX(s) and for the GL 89-13 Heat Exchanger Program.

If the information requested above will not be available, please contact Gerard O'Dwyer as soon as possible at (630) 829-9624 or email gfo@nrc.gov.