

November 14, 2006

Mr. Christopher M. Crane
President and Chief Nuclear Officer
Exelon Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2 - NOTIFICATION
OF AN NRC BIENNIAL HEAT SINK PERFORMANCE INSPECTION AND
INFORMATION REQUEST 05000254/2006007; 05000265/2006007(DRS)

Dear Mr. Crane:

On December 18, 2006, the NRC will begin the Biennial Heat Sink Performance Inspection at your Quad Cities Nuclear Power Station. This inspection will be performed in accordance with NRC baseline inspection procedure 71111.07B. The heat exchangers selected for detailed review during this baseline inspection are the 1B and 2B core spray pump room cooler, and the 1A and 2B emergency diesel generator engine cooler.

We have enclosed a request for documents needed for the inspection. This information can be sent to the following e-mail address cea4@nrc.gov, no later than December 8, 2006, so that we may start the review of these documents. A hard-copy with the required information is also an acceptable option.

The lead inspector for this inspection is Ms. Caroline Acosta Acevedo. If there are questions about the material requested, or the inspection, please call Ms. Acosta Acevedo at (630) 829-9718.

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

C. Crane

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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 by D. E. Hills Acting For/

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

Docket Nos. 50-254; 50-265 72-053
License Nos. DPR-29; DPR-30

Enclosure: BIENNIAL HEAT SINK INSPECTION
DOCUMENT REQUEST

cc w/encl: Site Vice President - Quad Cities Nuclear Power Station
Plant Manager - Quad Cities Nuclear Power Station
Regulatory Assurance Manager - Quad Cities Nuclear Power Station
Chief Operating Officer
Senior Vice President - Nuclear Services
Senior Vice President - Mid-West Regional
Operating Group
Vice President - Mid-West Operations Support
Vice President - Licensing and Regulatory Affairs
Director Licensing - Mid-West Regional
Operating Group
Manager Licensing - Dresden and Quad Cities
Senior Counsel, Nuclear, Mid-West Regional
Operating Group
Document Control Desk - Licensing
Vice President - Law and Regulatory Affairs
Mid American Energy Company
Assistant Attorney General
Illinois Emergency Management Agency
State Liaison Officer, State of Illinois
State Liaison Officer, State of Iowa
Chairman, Illinois Commerce Commission
D. Tubbs, Manager of Nuclear
MidAmerican Energy Company

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Senior Vice President - Mid-West Regional
Operating Group
Vice President - Mid-West Operations Support
Vice President - Licensing and Regulatory Affairs
Director Licensing - Mid-West Regional
Operating Group
Manager Licensing - Dresden and Quad Cities
Senior Counsel, Nuclear, Mid-West Regional
Operating Group
Document Control Desk - Licensing
Vice President - Law and Regulatory Affairs
Mid American Energy Company
Assistant Attorney General
Illinois Emergency Management Agency
State Liaison Officer, State of Illinois
State Liaison Officer, State of Iowa
Chairman, Illinois Commerce Commission
D. Tubbs, Manager of Nuclear
MidAmerican Energy Company

DOCUMENT NAME: ML063190629.wpd

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BIENNIAL HEAT SINK INSPECTION PERFORMANCE DOCUMENT REQUEST

Inspection Report: 05000254/2006007; 05000265/2006007(DRS)

Inspection Dates: December 18, 2006 (On-site Inspection Activity)
December 8, 2006 (Information Gathering Due Date)

Inspection Procedures: IP 71111.07B, Heat Sink Inspection Performance

Inspectors: Lead Inspector: Caroline Acevedo Acosta
(630) 829-9718, cea4@nrc.gov

1. Information Requested Prior to the Information Gathering Visit

The heat exchangers selected for detailed review during this baseline inspection are the 1B and 2B core spray pump room cooler, and the 1A and 2B emergency diesel generator engine cooler.

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;

BIENNIAL HEAT SINK INSPECTION PERFORMANCE DOCUMENT REQUEST

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) and 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. 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;
24. 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.);

BIENNIAL HEAT SINK INSPECTION PERFORMANCE DOCUMENT REQUEST

25. 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;
26. Copies of procedures which address ultimate heat sink functionality during adverse weather conditions, such as extreme cold or hot temperatures, or during incursion of seasonal aquatic material; and
27. List of the GL 89-13 heat exchangers in order of risk significance.