

March 3, 2006

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

SUBJECT: CLINTON POWER STATION INFORMATION REQUEST FOR AN NRC  
HEAT SINK PERFORMANCE BASELINE INSPECTION

Dear Mr. Crane:

On March 27, 2006, the U.S. Nuclear Regulatory Commission will begin the required biennial inspection of heat sink performance at your Clinton Power Station. This inspection will be performed in accordance with the NRC Baseline Inspection Procedure 71111.07. The heat exchangers to be reviewed in depth during the inspection are the Division I and II Emergency Diesel Generator (EDG) Jacket Water Heat Exchangers, Division 1 RHR Motor Cooler, and Division 1 Residual Heat Removal (RHR) Seal Cooler.

In order to minimize the impact that the inspection has on the site and to ensure a productive inspection for both sides, 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 in order to ensure the inspector is adequately prepared for the inspection. This information should be available in the Regional Office no later than March 14, 2006. Insofar as possible, this information should be provided electronically to the inspector.

The second group of documents requested are those items which the inspector will review or need access to during the inspection. It is important that these documents be as complete as possible, in order to minimize the number of documents requested during the preparation week or during the on-site inspection.

The inspector for this inspection is Mr. Darrell Schrum. We understand that our regulatory contact for this inspection is Mr. George Frantz of your organization. If there are any questions about the material requested, or the inspection, please call the inspector at (630) 829-9741 or e-mail him at [dls3@nrc.gov](mailto:dls3@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 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/**

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

Docket No. 50-461  
License No. NPF-62

Enclosure: Initial Document Request

cc w/encl: Site Vice President - Clinton Power Station  
Plant Manager - Clinton Power Station  
Regulatory Assurance Manager - Clinton Power Station  
Chief Operating Officer  
Senior Vice President - Nuclear Services  
Vice President - Operations Support  
Vice President - Licensing and Regulatory Affairs  
Manager Licensing - Clinton Power Station  
Senior Counsel, Nuclear, Mid-West Regional Operating Group  
Document Control Desk - Licensing

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Vice President - Operations Support  
Vice President - Licensing and Regulatory Affairs  
Manager Licensing - Clinton Power Station  
Senior Counsel, Nuclear, Mid-West Regional Operating Group  
Document Control Desk - Licensing

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## **Initial Document Request**

### **I. Information Requested Expeditiously**

The following information is requested to be provided as soon as possible, but no later than March 14, 2006; to support the biennial "Heat Sink Performance," inspection procedure 71111.07. Unless otherwise specified, all the below requests are for the selected heat exchangers: Division I and II EDG Jacket Water Heat Exchangers, Division 1 RHR Motor Cooler, and Division 1 RHR Seal Cooler. Insofar as possible, information should be provided electronically:

1. copies of the procedures used to monitor, inspect, clean or test heat exchanger performance;
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 five years), this item is for all the GL 89-13 Hxs and the ultimate heat sink;
3. copy of system description and/or 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;
5. copy of any self-assessment done within last two years on any of the licensee's heat exchanger programs (e.g., G.L. 89-13 program or CCW supplied heat exchangers) 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 on-site portion of the inspection;
7. copies of the two most recently completed tests confirming thermal performance for those heat exchangers which are performance tested. 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. For HXs not tested, provide documentation of inspections and cleanings. For HXs not cleaned provide documentation that assures that sample HXs will perform their safety functions;
8. copy of the evaluations of data for the two most recent completed tests confirming the thermal performance of each heat exchanger;
9. 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;

10. 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);
11. copy of the document describing the inspection results for the last two clean and inspection activities completed on each heat exchanger;
12. 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; and
13. copy of the document establishing the repair criteria (plugging limit) for degraded tubes which are identified in each heat exchanger.

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

We request that the following information be available to the inspector once he arrives on-site March 27, 2006:

1. copies of the documents that verify the following for the ultimate heat sink:
  - sufficient reservoir capacity;
  - functionality during adverse weather conditions, (e.g., icing or high temperatures); and
  - recent inspection results for intake structure.
2. the clean and inspection maintenance schedule for each heat exchanger;
3. copy of the design specification and heat exchanger data sheets for each heat exchanger;
4. copy of the vendor/component drawing for each heat exchanger;
5. copy of the calculations which evaluate the potential for water hammer or excessive tube vibration in the heat exchanger or associated piping;
6. copy of heat exchanger performance trending data tracked for each heat exchanger; and
7. copies of those documents that describe the methods taken to control water chemistry in the heat exchangers.

If the information requested above will not be available, please contact Darrell Schrum as soon as possible at (630) 829-9741 or E-mail - [dls3@nrc.gov](mailto:dls3@nrc.gov).