

October 19, 2003

Mr. Mark Peifer  
Site Vice-President  
Duane Arnold Energy Center  
Nuclear Management Company, LLC  
3277 DAEC Road  
Palo, IA 52324

SUBJECT: RESCHEDULING OF A PLANNED BASELINE INSPECTION

Dear Mr. Peifer:

We have rescheduled a biennial heat sink inspection at your Duane Arnold Energy Center. This change was communicated during a telephone conversation between Mr. R. Murell of your staff and Mr. G. O'Dwyer on October 8, 2003. The inspection to review the plant's heat sink performance, originally scheduled for the week of October 20, 2003, has been rescheduled for the week of November 17, 2003. Please provide the information as specified in the attached list. The requested information is needed to support the inspection. If you have any questions regarding our schedule or the material being requested, please contact G. O'Dwyer of my staff at (630) 829-9624.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter 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/

David E. Hills, Chief  
Mechanical Engineering Branch  
Division of Reactor Safety

Docket No. 50-331  
License No. DPR-49

Enclosure: Requested Information  
to Support Heat Sink Inspection

See Attached Distribution

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NAME	GO'Dwyer:tr		BBurgess		DHills			
DATE	10/17/03		10/17/03		10/19/03			

**OFFICIAL RECORD COPY**

cc w/encl: E. Protsch, Executive Vice President -  
Energy Delivery, Alliant;  
President, IES Utilities, Inc.  
J. Cowan, Chief Nuclear Officer  
T. Palmisano, Senior Vice President  
J. Bjorseth, Plant Manager  
S. Catron, Manager, Regulatory Affairs  
J. Rogoff, Esquire General Counsel  
B. Lacy, Nuclear Asset Manager  
Chairman, Linn County Board of Supervisors  
State Liaison Officer  
Chairperson, Iowa Utilities Board  
The Honorable Charles W. Larson, Jr.  
Iowa State Representative

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State Liaison Officer  
Chairperson, Iowa Utilities Board  
The Honorable Charles W. Larson, Jr.  
Iowa State Representative

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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 November 7, 2003, to support the biennial "Heat Exchanger Performance" inspection procedure 71111.07. Information should be provided for the selected heat exchangers: 1E053B3 Jacket CLNG water heat exchanger and 1E201B - RHR Heat Exchanger B. In so far as possible, information should be provided electronically.

1. Copies of the procedures used to monitor or inspect heat exchanger performance.
2. A list of issues, 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. (since last biennial inspection)
3. Copy of system description and/or design basis document for the heat exchangers under review (as applicable).

### **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 onsite November 17, 2003:

1. Copies of the two most recently completed tests confirming thermal performance for those heat exchangers which are performance monitored. 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. Include drawings showing the piping configurations and flowpaths for normal operation and testing for the HXs. Also indicate where the instruments used for the tests were located. Describe the measures to ensure proper fluid mixing for temperature considerations.
2. Copy of the evaluations of data for the two most recent completed tests confirming the thermal performance of each heat exchanger.
3. 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.
4. 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).
5. The clean and inspection maintenance schedule for each heat exchanger.

6. Copy of the document describing the inspection results for the last two clean and inspection activities completed on each heat exchanger.
7. 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.
8. Copy of the document establishing the repair criteria (plugging limit) for degraded tubes which are identified in each heat exchanger.
9. Copy of the design specification and as-built heat exchanger data sheets for each heat exchanger.
10. Copy of the vendor/component drawings for each heat exchanger.
11. Copy of the calculations which evaluate the potential for water hammer or excessive tube vibration in the heat exchanger or associated piping.
12. Copy of heat exchanger performance trending data tracked for each heat exchanger.
13. Copies of those documents that describe the methods taken to control water chemistry in the heat exchangers.
14. Copies of the documents that verify the following for the ultimate heat sink:
  - sufficient reservoir capacity;
  - provision to ensure freedom from clogging due to macrofouling (silt, mussel shells, debris, etc.);
  - provisions controlling for biotic fouling; and
  - functionality during adverse weather conditions, e.g., icing or high temperatures.

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