

H.B. Robinson Steam Electrical Plant
Baseline Heat Sink Inspection
Initial Information Request

H.B. ROBINSON STEAM ELECTRIC PLANT - NOTIFICATION OF INSPECTION AND
REQUEST FOR INFORMATION

During the week of June 18 – 22, 2018, the Nuclear Regulatory Commission (NRC) will perform the baseline heat sink (HS) inspection. Experience has shown that this inspection is resource intensive both for the NRC inspectors and your staff. In order to minimize the impact to your on-site resources and to ensure a productive inspection, we have enclosed a request for documents needed for this inspection. These documents have been divided into two groups. The first group (section A of the enclosure) identifies information to be provided prior to the inspection to ensure that the inspectors are adequately prepared. The second group (Section B of the enclosure) identifies the information the inspectors will need upon arrival at the site. 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 preparation and/or the onsite portions of the inspection.

We discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Christine Caudell of your organization. Our inspection dates are subject to change based on your updated schedule of activities. If there are any questions about this inspection or the material requested, please contact the lead inspector, Al Butcavage, at (404) 997-4640 (Alexander.Butcavage@nrc.gov).

In accordance with Title 10 of the Code of Federal Regulations 2.390, "Public Inspections, Exemptions, Requests for Withholding," of the NRC's "Agency Rules of Practice and Procedure," 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 the NRC's Agency-wide Document Access and Management System (ADAMS).

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PUBLIC PROTECTION NOTIFICATION

The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement, unless the requesting document displays a currently valid Office of Management and Budget control number.

Document Request List

Licensee: H.B. Robinson Steam Electrical Plant
Docket No.: 50-261
Inspection Dates: June 18 – 22, 2018
Entrance Meeting: June 18, 2018
Inspection Procedures: IP 71111.07, "Heat Sink Performance" dated 12/08/16
Inspector: Al Butcavage, Reactor Inspector

A. Information Requested for the In-Office Preparation Week

The following information should be sent to the Region II office in hard copy or electronic format (preferred), in care of Al Butcavage by 29 May 2018, to facilitate the selection of specific items that will be reviewed during the onsite inspection week. The inspector will select specific items from the information requested below and then request from your staff additional documents needed during the onsite inspection week (Section B of this enclosure). We ask that the specific items selected from the lists be available and ready for review on the first day of inspection. *Please provide requested documentation electronically if possible. If requested documents are large and only hard copy formats are available, please inform the inspector, and provide subject documentation during the first day of the onsite inspection. If you have any questions regarding this information request, please call the inspector as soon as possible.

Heat Exchangers and Service Water Equipment

1. List of heat exchangers (HXs) or equipment cooled by service water (SW) directly or indirectly
2. Include the risk ranking from the site specific risk assessment for each listed HX
3. Detail whether any cleaning or inspection activities are planned during the proposed onsite inspection period for any of the listed HXs
4. For HXs directly cooled by SW, provide the testing, inspection, maintenance, and monitoring of biotic fouling and macro-fouling program documents
5. Detail the HX performance inspection methods for HXs that are inspected/cleaned
6. Response to Generic Letter 89-13 including any regulatory commitments made
7. Design Basis documents associated with the SW system
8. Design Basis documents associated with the Ultimate Heat Sink (UHS)
9. SW system flow diagrams

Enclosure

10. Recent Health Reports associated with the SW System and systems that are cooled by SW
11. List of SW system related corrective action documents (with a brief description) which have received a Root Cause Analysis or an elevated severity level in the last three years
12. Recent Operating Experience Events (last three years)
13. List of applicable Codes and Industry Guidelines
14. List of findings and violations in the heat sink/heat exchanger performance area for the last three years
15. List of redundant or infrequently used HXs
16. Chemistry Program for safety-related HXs
17. Detail whether the UHS is above ground encapsulated by embankments, weirs or excavated side slopes; underwater weir or excavation; or forced draft cooling tower or spray pond
18. Provide a list of buried or inaccessible piping and the piping test program, inspection or monitoring program
19. List of safety-related and non-safety related valve interfaces
20. Most recent self-assessment reports performed on the UHS and SW systems

**B. Information to be provided on-site to the inspector at the entrance meeting
June 18, 2018:**

Heat Exchangers and Service Water Equipment

The inspector will select two to four heat exchangers and/or heat sink samples as required by the inspection procedure during in-office preparation. The following items will be requested when the selections are made:

1. Updated list of System Engineers
2. List of any through-wall leaks including completed or planned corrective actions and structural evaluations
3. Provide a copy of the corrective actions and supporting documentation
4. For the HXs that have Visual and/or Eddy Current Testing performed, provide a copy of the written procedures used, examination records, examiner qualification records, and associated corrective action documents
5. Heat transfer calculations
6. Evaluations for the potential of water hammer

7. Documentation for controls and operational limits for excessive flow induced vibrations
8. Periodic flow test results at/or near maximum design flow
9. For an UHS that is encapsulated by embankments, weirs, or excavated side slopes, provide third party dam inspection results, and documentation showing that there is sufficient reservoir capacity
10. For an UHS that is an underwater weir or excavation, provide documentation demonstrating:

Periodic monitoring and trending of sediment build-up

Sufficient reservoir capacity

Considerations for adjacent non-seismic and/or non-safety related structures of possible degradation or blocking of safety-related flow paths due to severe weather or seismic events

Performance monitoring of heat transfer capabilities

Performance monitoring of UHS structural integrity

SW flow balance test results

Inspector Contact Information:

Al Butcavage

Reactor Inspector

404-997-4640

Alexander.Butcavage@nrc.gov

Mailing Address

US NRC Region 2

Attn: Al Butcavage

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Atlanta, GA 30303

Egelstad, Donna

From: Butcavage, Alexander
Sent: Friday, March 09, 2018 1:14 PM
To: Caudell, Christine Anna
Cc: Bonser, Brian; Egelstad, Donna
Subject: Heat Sink Inspection Request for Information
Attachments: Robinson Heat Sink RFI 2018_ (002) AJB .pdf

Ms. Caudell,

Please find attached the NRC request for information for use during the upcoming Tri-Annual Heat Sink Inspection in accordance with IP 71111.07, "Heat Sink Performance" scheduled for 18-22 June, 2018.

Please confirm receipt of this request by return E-mail.

Thank You in advance for your help in compiling the requested information.

Al Butcavage
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