



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
1600 EAST LAMAR BOULEVARD  
ARLINGTON, TEXAS 76011-4511

June 5, 2019

Adam C. Heflin, President and  
Chief Executive Officer  
Wolf Creek Nuclear Operating Corporation  
P.O. Box 411  
Burlington, KS 66839

SUBJECT: WOLF CREEK GENERATING STATION - NOTIFICATION OF NRC TRIENNIAL  
HEAT SINK PERFORMANCE INSPECTION (05000482/2019003) AND  
REQUEST FOR INFORMATION

Dear Mr. Heflin:

The purpose of this letter is to notify you that U.S. Nuclear Regulatory Commission (NRC) staff will conduct a triennial heat sink performance inspection at your Wolf Creek Generating Station from July 29, 2019 – August 2, 2019. The inspection will consist of two reactor inspectors from the NRC's Region IV office for one week. The inspection will be conducted in accordance with the triennial review portion of NRC Inspection Procedure 71111.07, "Heat Sink Performance."

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 onsite resources and to ensure a productive inspection, we have enclosed a request for documents needed for this inspection. Please note that the documents are requested to be provided by July 15, 2019. We request that during the onsite inspection week you ensure that copies of analyses, evaluations, or documentation regarding the implementation and maintenance of your heat exchanger program are available. Of specific interest are those documents that establish that your heat exchanger program satisfies NRC regulatory requirements and conforms to applicable NRC guidance. Also, appropriate personnel knowledgeable of safety-related heat exchangers should be available to support the inspector at the site during the inspection.

We have discussed the schedule for this inspection activity with your staff and understand that our regulatory contact for this inspection will be Jason Knust of your licensing organization. If there are any questions about this inspection or the material requested, please contact the lead inspector, Chad Stott, by telephone at 817-200-1526 or by e-mail at [Chad.Stott@nrc.gov](mailto:Chad.Stott@nrc.gov).

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, control number 3150-0011. 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.

A. Heflin

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This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

*/RA/*

Vincent G. Gaddy, Chief  
Engineering Branch 1  
Division of Reactor Safety

Docket No. 50-482  
License No. NPF-42

Enclosure:  
Triennial Heat Sink Performance Inspection  
Request for Information

cc: Electronic Distribution to Wolf Creek Generating Station

**Request for Information  
Triennial Heat Sink Performance Inspection  
Wolf Creek Generating Station**

Inspection Report: 05000482/2019003

Inspection Dates: July 29 – August 2, 2019

Inspection Procedure: IP 71111.07, Triennial Heat Sink Performance

Inspectors: Chad Stott, Reactor Inspector  
Jonathan Braisted, Reactor Inspector

**Information Requested for the In-Office Preparation Week**

The following information should be sent to the Region IV office in hard copy or electronic format, to the attention of Chad Stott, by July 15, 2019. The inspector will review specific items from the information requested below and then request from your staff additional documents needed during the onsite inspection week. Also, we request that you categorize the documents in your response with the numbered list below. 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 lead inspector as soon as possible.

The following heat exchangers/heat sinks have been selected for inspection:

- Component Cooling Water Heat Exchanger EEG01B
- Containment Air Cooler SGN01C
- Control Room A/C SGK04A
- Ultimate Heat Sink

**General document requests, as applicable:**

1. Copies of any heat exchanger program self-assessments or audits performed since the last triennial heat sink inspection
2. Copies of any heat exchanger program documents or descriptions
3. List of commitments (with descriptions) to the Generic Letter 89-13 program
4. Copies of the updated final safety analysis report, technical specifications, and technical requirements manual

**For all heat exchangers listed above, as applicable:**

5. Copies of design bases documents, system health reports, and maintenance rule system notebooks

Enclosure

6. List of corrective action program documents (with descriptions), including any operability determinations, since the last triennial heat sink inspection
7. List of any design changes (with descriptions) implemented since the last triennial heat sink inspection
8. List of any surveillance activities or preventive maintenance tasks (with descriptions) and frequency
9. Copies of simplified piping and instrumentation drawings or diagrams
10. Copies of the two most recent thermal performance tests and instrument uncertainties used during testing
11. Copies of the two most recent documents that verify structural integrity (i.e., eddy current summary sheets, ultrasonic testing results, and visual inspection results, etc.)
12. Copies of documents that describe the methods taken to control water chemistry
13. List of calculations (with descriptions) which currently apply to each heat exchanger
14. Copies of vendor data sheets
15. 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
16. 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)
17. Copy of the calculations or documents which evaluate the potential for water hammer or excessive tube vibration in the heat exchanger or associated piping
18. Copy of the document which identifies the current number of tubes in service for each heat exchanger (e.g., tube plugging map) and the supporting calculation which establishes the maximum number of tubes which can be plugged in each heat exchanger
19. Copy of the document establishing the repair criteria for degraded tubes

**For the ultimate heat sink, as applicable:**

20. List of corrective action program documents (with descriptions), including any operability determinations, since the last triennial heat sink inspection
21. Dam inspections that monitor the integrity of the ultimate heat sink
22. Copies of calculations and surveillances that determine the ultimate heat sink reservoir capacity and heat transfer capability

23. Copies of procedures for a loss of ultimate heat sink or safety-related service water system
24. Copies of the most recent inspections and/or maintenance related to macrofouling (silt, mussel shells, debris, etc.) and aquatic life
25. Copies of the most recent inspections and/or maintenance related to preventing biotic fouling
26. Copies of procedures and most recent test results to survey or monitor interface valves between the safety-related section of the service water system and the non-safety related section
27. Copy of the most recent safety-related service water flow balance test results, both as-found and as-left
28. History of any thru-wall pipe leaks on the safety-related service water system
29. List of corrective action program documents (with descriptions), including any operability determinations, since the last triennial heat sink inspection

Inspector Contact Information:

Chad Stott, Lead  
Reactor Inspector  
817-200-1526  
Chad.Stott@nrc.gov

Jonathan Braisted  
Reactor Inspector  
817-200-1469  
Jonathan.Braisted@nrc.gov

Mailing Address:

U.S. NRC, Region IV  
Attn: Chad Stott  
1600 East Lamar Blvd.  
Arlington, TX 76011-4511

WOLF CREEK GENERATING STATION - NOTIFICATION OF NRC TRIENNIAL HEAT SINK PERFORMANCE INSPECTION (05000482/2019003) AND REQUEST FOR INFORMATION – JUNE 5, 2019

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ADAMS ACCESSION NUMBER: ML19158A078

SUNSI Review: ADAMS:  Non-Publicly Available  Non-Sensitive Keyword: NRC-002  
 By: CAS  Yes  No  Publicly Available  Sensitive

OFFICE	RI:EB1	RI:EB1	C:EB1			
NAME	CStott	JBraisted	VGaddy			
SIGNATURE	/RA/	/RA/	/RA/			
DATE	5/23/2019	5/22/2019	6/5/2019			

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