



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

May 26, 2017

Mr. Brian K. Taber, VP Nuclear Plant Site
Southern Nuclear Operating Co., Inc.
Vogtle Electric Generating Plant
7821 River Road
Waynesboro, GA 30830

**SUBJECT: VOGTLE ELECTRIC GENERATING PLANT – NOTIFICATION OF INSPECTION
AND REQUEST FOR INFORMATION**

Dear Mr. Taber:

The NRC will perform the baseline heat sink (HS) inspection at the Vogtle Electric Generating Plant, Units 1 and 2, from July 10 – 14, 2017. 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 Kevin Walden 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, Robert Williams, at (404) 997-4664 (Robert.Williams@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 Agencywide Document Access and Management System (ADAMS).

B. Taber

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ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

Shakur A. Walker, Chief
Engineering Branch 3
Division of Reactor Safety

Docket Nos. 50-424, 50-425
License Nos.: NPF-68, NPF-81

Enclosure:
Pre-Inspection Document Request

cc: Distribution via Listserv

SUBJECT: VOGTLE ELECTRIC GENERATING PLANT – NOTIFICATION OF INSPECTION AND REQUEST FOR INFORMATION

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PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE ADAMS: Yes
 ACCESSION NUMBER: _____ SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII/DRS	RII/DRS					
SIGNATURE	REW1	SAW4					
NAME	R. Williams	S. Walker					
DATE	5/25 /2017	5/26/2017					
E-MAIL COPY	YES NO	YES NO					

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 3\INSPECTIONS\WORKING DOCUMENTS\RFIS\HEAT SINK REQUEST FOR INFORMATION
 LETTERS\2017\VOGTLE HS RFI 2017003 - REW.DOCX

HEAT SINK PERFORMANCE DOCUMENT REQUEST

Inspection Dates: July 10 – July 14, 2017

Inspection Procedures: IP 71111.17, "Heat Sink Performance"

Inspectors: Robert Williams, Senior Reactor Inspector (Lead 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 Robert Williams by June 28, 2017, 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.

A.1 Heat Exchangers and Service Water Equipment

- a) List of heat exchangers (HXs) or equipment cooled by service water (SW) directly or indirectly
 - Include the risk ranking from the site specific risk assessment for each listed HX
 - Detail whether any cleaning or inspection activities are planned during the proposed onsite inspection period for any of the listed HXs
 - For HXs directly cooled by SW, provide the testing, inspection, maintenance, and monitoring of biotic fouling and macrofouling program documents
- b) Detail the HX performance inspection methods for HXs that are inspected/cleaned
- c) Response to Generic Letter 89-13 including any regulatory commitments made
- d) Design Basis documents associated with the SW system
- e) Design Basis documents associated with the Ultimate Heat Sink (UHS)
- f) SW system flow diagrams
- g) Recent Health Reports associated with the SW System and systems that are cooled by SW
- h) 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
- i) Recent Operating Experience Events (2014-2017)

Enclosure

- j) List of applicable Codes and Industry Guidelines
- k) List of findings in the heat sink/heat exchanger performance area for the last 3 years
- l) List of redundant or infrequently used HXs
- m) Chemistry Program for safety-related HXs
- n) 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
- o) Provide a list of buried or inaccessible piping and the piping test program, inspection or monitoring program
- p) List of safety-related and non-safety related valve interfaces
- q) 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 (July 10, 2017):

B.1 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 the in-office preparation. The following items will be requested when the selections are made:

- a) Updated list of System Engineers
- b) List of any through-wall leaks including completed or planned corrective actions and structural evaluations
- c) Provide a copy of the corrective actions and supporting documentation
- d) 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
- e) Heat transfer calculations
- f) Evaluations for the potential of water hammer
- g) Documentation for controls and operational limits for excessive flow induced vibrations
- h) Periodic flow test results at/or near maximum design flow
- i) For an UHS that is encapsulated by embankments, weirs of excavated side slopes provide: (1) third party dam inspection results, and (2) documentation showing that there is sufficient reservoir capacity

j) For an UHS that is an underwater weir or excavation provide documentation showing:

- 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:

Robert Williams
Sr. Reactor Inspector
404-997-4664

Robert.Williams@nrc.gov Mailing Address:

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Atlanta, GA 30303