

September 2, 2016

MEMORANDUM TO: Jennifer Dixon-Herrity, Acting Chief  
Licensing Branch 4  
Division of New Reactor Licensing  
Office of New Reactors

FROM: Ruth C. Reyes, Project Manager */RA/*  
Licensing Branch 4  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: REGULATORY AUDIT PLAN FOR THE REVIEW OF REQUEST  
FOR LICENSE AMENDMENT AND EXEMPTION (LAR 16-013)  
REGARDING DEBRIS SCREEN RELATED DIMENSIONS FOR  
THE VOGTLE ELECTRIC GENERATING PLANT UNITS 3 AND 4  
(CAC NO. RP9533)

By letter dated August 11, 2016, Southern Nuclear Operating Company submitted a request for a license amendment and exemption (LAR 16-013) for the Combined License Numbers NPF-91 and NPF-92, for the Vogtle Electric Generating Plant (VEGP) Units 3 and 4, respectively.

Subsequently, the U.S. Nuclear Regulatory Commission staff would like to perform an audit in support of its review of LAR 16-013.

Docket Nos.: 52-025 and 52-026

Enclosure:  
Regulatory Audit Plan

CONTACT: Ruth C. Reyes, NRO/DNRL/LB4  
301-415-3249

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By letter dated August 11, 2016, Southern Nuclear Operating Company (SNC/licensee) submitted a request for a license amendment and exemption (LAR 16-013) for the Combined License Numbers NPF-91 and NPF-92, for the Vogtle Electric Generating Plant (VEGP) Units 3 and 4, respectively.

Subsequently, the U.S. Nuclear Regulatory Commission staff would like to perform an audit in support of its review of LAR 16-013.

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ADAMS ACCESSION NO: ML16242A175 \*via email NRO-008

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DATE	08/31/16	08/30/16	09/01/16

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## **Audit Plan for License Amendment Regarding Debris Screen Related Dimensions (LAR 16-013)**

### A. Background

On August 11, 2016, Southern Nuclear Operating Company (SNC) submitted a request for a license amendment and exemption (LAR 16-013, Reference 1) for the Combined License for the Vogtle Electric Generating Plant (VEGP) Units 3 and 4. The proposed changes are to provide information regarding the In-Containment Refueling Water Storage Tank (IRWST) screens, the protective plate located above the containment recirculation (CR) screens, and the maximum Normal Residual Heat Removal System flowrate through the IRWST and CR screens. As part of the LAR, SNC proposed to change the dimensions of a protective plate over the CR screens in order to better accommodate pump maintenance. As such, in conjunction with other changes discussed in the LAR, SNC revised the coating debris settling analysis demonstrating that the protective plate precludes non-safety related coating debris from transporting to the containment recirculation screen. The NRC staff is conducting this audit to assess the revised settling debris calculation.

### B. Audit Location and Dates

Dates: Beginning September 1, 2016, and consisting of two visits over the course of approximately 1 week.

Location: Westinghouse Electric Company, LLC  
Washington Operations  
11333 Woodglen Drive, Suite 203  
Rockville, Maryland 20852  
Telephone: 301-881-7040/7042

### C. Audit Team Members

#### **NRC Audit Team:**

- Boyce Travis, Office of New Reactors (NRO), Containment & Ventilation Branch (SCVB), Technical Reviewer
- Chandu Patel, NRO, Licensing Branch 4 (LB4), Senior Project Manager

The staff will conduct this audit in accordance with the guidance provided in NRO-REG-108, "Regulatory Audits" (Reference 2).

### D. Regulatory Audit Bases

This regulatory audit is based on the following:

- General Design Criteria (GDC) 4 of Appendix A to Part 50 of Title 10 of the *Code of Federal Regulations*, "Environmental and dynamic effects design bases," which requires in part that the applicant take provisions to accommodate and appropriately protect structure, systems, and component important to safety against the environmental

conditions, including dynamic effects, that may result from normal operation, maintenance, testing, equipment failures and postulated accidents.

- GDC 35, "Emergency core cooling," which requires in part that abundant emergency core cooling following a loss of coolant shall be provided.
- Regulatory Guide 1.82, "Water Sources for Long-Term Recirculation Cooling Following a Loss-of-Coolant-Accident"

E. Audit Scope or Methodology

The NRC staff will review the requested calculation and may request an audit telephone call with a Westinghouse Electric Company (Westinghouse) subject matter expert to address questions.

F. Information and Other Material Necessary for the Audit

The audit will focus on the following calculations identified in a public meeting that the NRC staff held on June 23, 2016:

- APP-PXS-M3C-035, the revised coating debris settling analysis

The NRC staff will need documents listed above and may request other supporting information during the conduct of the audit.

G. Special Requests

NRC staff requests that Westinghouse provide:

1. A conference room for the NRC staff use;
2. Telephones to support teleconferencing (i.e., with microphone and speaker);
3. As needed, telephone access to Westinghouse technical staff to answer questions related to the material subject to the audit (with reasonable advance notice).

H. Deliverables

The audit team will issue a regulatory audit summary within 90 days after completing the audit. The audit outcome will be used to identify any additional information to be submitted for making regulatory decisions.

I. References

1. Southern Nuclear Operating Company, Vogtle Electric Generating Plant Units 3 and 4, Request for License Amendment and Exemption: Debris Screen Related Dimensions (LAR 16-013) (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16224B122).
2. NRO-REG-108, "Regulatory Audits," April 2, 2009 (ADAMS Accession No. ML081910260).