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U.S. Nuclear Regulatory Commission
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Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 4
ITAAC Closure Notification on Completion of ITAAC 2.2.04.08b.ii [Index Number 238]

Ladies and Gentlemen:

In accordance with 10 CFR 52.99(c)(1), the purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of the completion of Vogtle Electric Generating Plant (VEGP) Unit 4 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.2.04.08b.ii [Index Number 238] for verifying a report exists to indicate the installed flow limiting orifice within the Steam Generator (SG) main steam line discharge nozzle does not exceed 1.4 square feet (sq. ft.) The closure process for this ITAAC is based on the guidance described in NEI 08-01, "Industry Guideline for the ITAAC Closure Process Under 10 CFR Part 52," which was endorsed by the NRC in Regulatory Guide 1.215.

This letter contains no new NRC regulatory commitments. Southern Nuclear Operating Company (SNC) requests NRC staff confirmation of this determination and publication of the required notice in the Federal Register per 10 CFR 52.99.

If there are any questions, please contact Paulo Albuquerque at 706-848-5531.

Respectfully submitted,


Michael J. Yox
Regulatory Affairs Director Vogtle 3&4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.2.04.08b.ii [Index Number 238]

U.S. Nuclear Regulatory Commission

ND-15-2183

Page 2 of 3

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**Southern Nuclear Operating Company
ND-15-2183
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.2.04.08b.ii [Index Number 238]**

ITAAC Statement

Design Commitment:

- 8.b) *During design basis events, the SGS limits steam generator blowdown and feedwater flow to the steam generator.*

Inspections, Tests, Analyses:

- ii) *Inspection will be performed for the existence of a report confirming that the area of the flow limiting orifice within the SG main steam outlet nozzle will limit releases to the containment.*

Acceptance Criteria:

- ii) *A report exists to indicate the installed flow limiting orifice within the SG main steam line discharge nozzle does not exceed 1.4 sq. ft.*

ITAAC Determination Basis

Multiple ITAAC are performed to demonstrate that during design basis events, the Steam Generator System (SGS) limits Steam Generator (SG) blowdown and feedwater flow to the SG. The ITAAC requires an inspection to verify the existence of a report confirming that the area of the flow limiting orifice within the SG main steam outlet nozzle will limit releases to the containment. Inspections of each of the Vogtle Unit 4 SGs were conducted to verify that a report exists to indicate that the installed flow limiting orifice within the SG main steam line discharge nozzle does not exceed 1.4 square feet (sq. ft.).

The SG fabricator performed measurements to determine the diameters for both the Vogtle 4A SG and Vogtle 4B SG installed flow limiting orifices within the SG main steam outlet nozzle. Calculations were then performed using the fabricator's measurements to determine the total area of the flow limiting orifice for each SG. The measurements and calculations showed that the total area of the Vogtle 4A SG flow limiting orifice is 1.395 sq. ft and the total area of the Vogtle 4B SG flow limiting orifice is 1.395 sq. ft.

The results were documented in the "Vogtle Unit 4 Steam Generator Flow Limiting Orifice Inspection Summary Report" (Reference 1). The results demonstrated that the installed flow limiting orifice for each Vogtle Unit 4 SG within the SG main steam line discharge nozzle does not exceed 1.4 sq. ft and meets ITAAC 2.2.04.08b.ii acceptance criteria.

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company (SNC) performed a review of all ITAAC findings pertaining to the subject ITAAC and associated corrective actions. This review found that there are no relevant ITAAC findings associated with this ITAAC. The ITAAC completion review document number is included in the Vogtle Unit 4 ITAAC Completion Package for ITAAC 2.2.04.08b.ii (Reference 2) and available for NRC inspection.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.2.04.08b.ii was performed for VEGP Unit 4 and that the prescribed acceptance criteria are met.

Systems, structures, and components verified as part of this ITAAC are being maintained in their as-designed, ITAAC compliant condition in accordance with approved plant programs and procedures.

References (available for NRC inspection)

1. SV4-MB01-VFR-001 Rev. 1, Vogtle Unit 4 Steam Generator Flow Limiting Orifice Inspection Summary Report
2. SVP_SV0_003581, Attachment 1, Submittal of Updated Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 2.2.04.08b.ii (238) (Verification of SG Main Steam Line Flow Limiting Orifice Area)