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10 CFR 52.99(c)(1)

Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Unit 3  
ITAAC Closure Notification on Completion of ITAAC 2.1.02.08d.vii [Index Number 38]

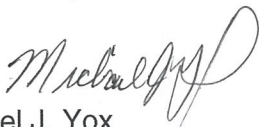
Ladies and Gentlemen:

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 3 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.1.02.08d.vii [Index Number 38] for verifying that the RCS Automatic Depressurization Sparger flow area through the sparger holes is  $\geq 274$  in<sup>2</sup>. 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 David Woods at 706-848-6903.

Respectfully submitted,



Michael J. Yox  
Regulatory Affairs Director Vogtle 3&4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 3  
Completion of ITAAC 2.1.02.08d.vii [Index Number 38]

MJY/jyk/amm

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**Southern Nuclear Operating Company  
ND-16-1580  
Enclosure**

**Vogle Electric Generating Plant (VEGP) Unit 3  
Completion of ITAAC 2.1.02.08d.vii [Index Number 38]**

### **ITAAC Statement**

#### **Design Commitment:**

8.d) The RCS provides automatic depressurization during design basis events.

#### **Inspections, Tests, Analysis:**

vii) Inspection of each ADS sparger will be conducted to determine the flow area through the sparger holes.

#### **Acceptance Criteria:**

vii) The flow area through the holes in each ADS sparger is  $\geq 274 \text{ in}^2$ .

### **ITAAC Determination Basis**

Multiple Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) are performed to demonstrate that the Reactor Coolant System (RCS) provides automatic depressurization during design basis events. This ITAAC requires an inspection to verify the flow area through the holes in each Automatic Depressurization System (ADS) sparger is  $\geq 274 \text{ in}^2$ .

Following fabrication of the ADS spargers, the vendor performed a dimensional inspection by measuring the diameter of each of the 1400 holes in each sparger. The total flow area was calculated by summing the flow areas that are based on the minimum measured diameters of each hole using the area equation for a circle.

As documented in the Vogtle Unit 3 ADS sparger as-built report (Reference 1), the calculated flow area of each ADS sparger (SV3-PXS-MW-01A and SV3-PXS-MW-01B) is  $286 \text{ in}^2$  and meets the ITAAC 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 3 ITAAC Completion Package for ITAAC 2.1.02.08d.vii and available for NRC inspection.

### **ITAAC Completion Statement**

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.1.02.08d.vii was performed for VEGP Unit 3 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. SV3-MW01-Z0R-002, Rev. 0, "AP1000 ADS Sparger – Vogtle Unit 3 (SV3) Flow Area As-Built Analysis"
2. SVP\_SV0\_004117, Attachment 1, Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 3 ITAAC 2.1.02.08d.vii [COL Index Number38] (RCS Automatic Depressurization Sparger Flow Area)