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10 CFR 52.99(c)(1)

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555-0001

Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Unit 4  
ITAAC Closure Notification on Completion of ITAAC 2.1.02.08d.iii [Index Number 34]


Ladies and Gentlemen:

In accordance with 10 CFR 52.99(c)(1), 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) 2.1.02.08d.iii [Index Number 34] for verification that the as manufactured flow area through each Reactor Coolant System (RCS) fourth-stage Automatic Depressurization System (ADS) valve is  $\geq 67 \text{ in}^2$ . 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 4  
Completion of ITAAC 2.1.02.08d.iii [Index Number 34]

MJY/kjd/amm

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**Southern Nuclear Operating Company  
ND-16-2323  
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4  
Completion of ITAAC 2.1.02.08d.iii [Index Number 34]**

### **ITAAC Statement**

#### **Design Commitment:**

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

#### **Inspections, Tests, Analyses:**

iii) Inspections of each fourth-stage ADS valve will be conducted to determine the as-manufactured flow area through each valve.

#### **Acceptance Criteria:**

iii) The as-manufactured flow area through each fourth-stage ADS valve is  $\geq 67 \text{ in}^2$ .

### **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 that the as-manufactured flow area through each fourth stage ADS valve is  $\geq 67 \text{ in}^2$ .

Following fabrication of the fourth stage Automatic Depressurization System (ADS) valves, the vendor performed a dimensional inspection by measuring the shear cap inner diameter of each valve. The diameter was calculated based on the best fit circle calculated from eight evenly spaced measurements (every 45 degrees). This diameter was then used to determine the area using the area equation for a circle.

The results of the inspection are documented in the shear cap flow area report (Reference 1) and show that the as-manufactured calculated flow area for each fourth stage ADS valve are  $67.027 \text{ in}^2$ ,  $67.056 \text{ in}^2$ ,  $67.056 \text{ in}^2$ ,  $67.056 \text{ in}^2$  which 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 4 ITAAC Completion Package for ITAAC 2.1.02.08d.iii (Reference 2) and available for NRC inspection.

**ITAAC Completion Statement**

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.1.02.08d.iii 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-PV70-VBR-001 Rev. 0, "Shear Cap Flow Area"
2. SVP\_SV0\_004322, Attachment 1, "Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 2.1.02.08d.iii [COL Index Number 34] (RCS Automatic Depressurization Valve Stage 4 Flow Areas)