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Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 4
ITAAC Closure Notification on Completion of ITAAC 2.1.02.08d.iv [Index Number 35]

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 2.1.02.08d.iv [Index Number 35] for verification of the effective flow area through the Reactor Coolant System (RCS) Stage 1, 2, and 3 Automatic Depressurization System (ADS) valves. 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
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MJY/MKW/amm

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.1.02.08d.iv [Index Number 35]

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**Southern Nuclear Operating Company
ND-16-2325
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.1.02.08d.iv [Index Number 35]**

ITAAC Statement

Design Commitment:

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

Inspections, Tests, Analyses:

iv) Type tests and analysis will be performed to determine the effective flow area through each stage 1,2,3 ADS valve.

Acceptance Criteria:

iv) A report exists and concludes that the effective flow area through each stage 1 ADS valve $\geq 4.6 \text{ in}^2$ and each stage 2,3 ADS valve is $\geq 19 \text{ in}^2$.

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 type tests and analysis to determine the effective flow area through each Stage 1 Automatic Depressurization System (ADS) valve is $\geq 4.6 \text{ in}^2$ and the effective flow area through each Stage 2 ,3 ADS valve is $\geq 19 \text{ in}^2$.

Type tests and analyses were performed to determine the effective flow area through each Stage 1,2,3 ADS valve. The effective flow area for each type of valve was calculated based on the valve flow coefficient derived in accordance with ANSI/ISA-S75.02-1996 (Reference 1) from applicable test condition data and the flow test results with the valve in the fully open position.

The ADS valve analysis reports (References 2 and 3) demonstrate that the effective flow area for the Stage 1 ADS valve is 5.5 in^2 and the Stage 2 and 3 ADS valve is 19.45 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 4 ITAAC Completion Package for ITAAC 2.1.02.08d.iv (Reference 4) and available for NRC inspection.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.1.02.08d.iv 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. ANSI/ISA-S75.02-1996, "Control Valve Capacity Test Procedures"
2. APP-PV01-VDR-131003, Rev. 0, "4 Inch Motor Operated Globe Valves, APP-PV01-Z0D-131, Effective Flow Area Calculation"
3. APP-PV01-VDR-132003, Rev. 0, "8 Inch Motor Operated Globe Valve, APP-PV01-Z0D-132, Cv Test Results and Analysis Report"
4. SVP_SV0_004324, Attachment 1, "Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 2.1.02.08d.iv [COL Index Number 35] (RCS Automatic Depressurization Valve Stages 1, 2, and 3_Flow Areas)"