

JUL 06 2020

Docket Nos.: 52-025

ND-20-0699  
10 CFR 52.99(c)(1)U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555-0001Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Unit 3  
ITAAC Closure Notification on Completion of ITAAC 2.1.02.08e [Index Number 40]

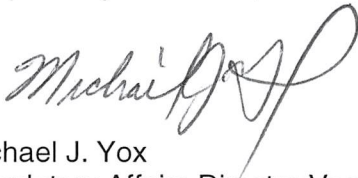
Ladies and Gentlemen:

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 2.1.02.08e [Index Number 40]. This ITAAC verified that the capacity of the reactor vessel head vent is sufficient to pass not less than 9.0 lbm/sec at 2500 psia in the RCS. 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" (Reference 1), which is 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 Tom Petrak at 706-848-1575.

Respectfully submitted,

Michael J. Yox  
Regulatory Affairs Director Vogtle 3 & 4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 3 ITAAC Closure Notification on Completion of 2.1.02.08e [Index Number 40]

MJY/TST/sfr

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Document Services RTYPE: VND.LI.L06

File AR.01.02.06

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**Southern Nuclear Operating Company  
ND-20-0699  
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 3  
ITAAC Closure Notification on Completion of ITAAC 2.1.02.08e [Index Number 40]**

### **ITAAC Statement**

#### **Design Commitment:**

8.e) The RCS provides emergency letdown during design basis events.

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

Inspections of the reactor vessel head vent valves and inlet and outlet piping will be conducted.

#### **Acceptance Criteria:**

A report exists and concludes that the capacity of the reactor vessel head vent is sufficient to pass not less than 9.0 lbm/sec at 2500 psia in the RCS.

### **ITAAC Determination Basis**

The Reactor Coolant System (RCS) provides emergency letdown during design basis events. This ITAAC performs inspections of the reactor vessel head vent (RVHV) valves and inlet and outlet piping to verify that the capacity of the reactor vessel head vent is sufficient to pass not less than 9.0 lbm/sec at 2500 psia in the RCS.

The flow capacity of the RVHV pipe routing is restricted (choked) up to the orifice downstream of the RVHV valves RCS-PL-V150C and D. The flow resistance of the RVHV valves and inlet and outlet piping was calculated with Darcy's formula using line routing information (i.e., pipe length, pipe diameter, number and type of pipe fittings, entrance/exit losses and valves) (Reference 3). Following installation, inspections of construction records were performed to verify the line routing information of the RVHV inlet and outlet piping including valves up to the downstream orifice is consistent with the information in the flow capacity design calculation. The inspection results documented in Reference 2 verify that there is negligible difference between the as-designed and as-built RVHV piping configuration. The calculated RVHV flow capacity of 12.34 lbm/sec at 2500 psia in the RCS remains valid for the as-built system configuration.

The inspection results documented in Reference 2 verify that the capacity of the reactor vessel head vent is sufficient to pass not less than 9.0 lbm/sec at 2500 psia in the RCS, which meets the ITAAC acceptance criteria. The design calculation and inspection results (References 3 and 2 respectively) are available for NRC inspection as part of the ITAAC Completion Package (Reference 4).

### **ITAAC Finding Review**

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company (SNC) performed a review of all findings pertaining to the subject ITAAC and associated corrective actions. This review found there are no relevant ITAAC findings associated with this ITAAC.

### **ITAAC Completion Statement**

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.1.02.08e 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. NEI-08-01 Rev. 5 corrected 6-30-2014, *Industry Guideline for the ITAAC Closure Process under 10 CFR Part 52*
2. SV3-RCS-ITR-800040, Rev 0, "Unit 3 Inspections and Associated Analysis of the RCS Reactor Vessel Head Vent Line: ITAAC 2.1.02.08e, NRC Index Number: 40"
3. APP-RCS-M3C-067, Rev 4, "Orifice Functional Requirements for RCS Reactor Vessel Head Vent Flow Orifices (APP-RCS-PY-R01A/B)"
4. 2.1.02.08e-U3-CP-Rev0, ITAAC Completion Package