

Docket No.: 52-026

**MAY 18 2017**U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555-0001ND-17-0683  
10 CFR 52.99(c)(1)

Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Unit 4  
ITAAC Closure Notification on Completion of ITAAC 2.3.04.08 [Index Number 335]

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) Item 2.3.04.08 [Index Number 335] for verifying that tests and/or analysis conclude each Fire Protection System (FPS) fire pump provides a flow rate of at least 2000 gallons per minute (gpm) flow at a total head of at least 350 feet. 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.

Southern Nuclear Operating Company (SNC) previously submitted ITAAC Closure Notification on Completion of VEGP Unit 4 ITAAC 2.3.04.08 [Index Number 335], ND-16-0101 [ML16027A264], dated January 26, 2016. On March 03, 2016, the NRC verified the completion of VEGP Unit 4 ITAAC 2.3.04.08 [ML16070A171]. On August 23, 2016, SNC submitted a request for license amendment and exemption, ND-16-1174 [ML16236A265], which included a request, contingent on approval of the License Amendment, for withdrawal of the previously submitted VEGP Unit 4 ITAAC 2.3.04.08 closure notification. On November 30, 2016, the NRC issued Amendment No. 58 [ML16279A341], granting the requested exemption and revising the VEGP Unit 4 ITAAC 2.3.04.08 acceptance criteria.

This notification provides the revised ITAAC Closure Notification (ICN) on Completion of VEGP Unit 4 ITAAC 2.3.04.08 [Index Number 335].

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

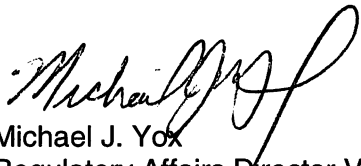
If there are any questions, please contact David F. Woods, ITAAC Manager, at 706-848-6903.

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Respectfully submitted,

A handwritten signature in black ink, appearing to read "Michael J. Yox". The signature is fluid and cursive, with the first name being the most prominent.

Michael J. Yox

Regulatory Affairs Director Vogtle 3 & 4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4  
Completion of ITAAC 2.3.04.08 [Index Number 335]

MJY/RAS/amw

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**Southern Nuclear Operating Company  
ND-17-0683  
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4  
Completion of ITAAC 2.3.04.08 [Index Number 335]**

## **ITAAC Statement**

### **Design Commitment:**

8. Two FPS fire pumps provide at least 2000 gpm each at a total head of at least 350 ft.

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

Testing and/or analysis of each fire pump will be performed.

### **Acceptance Criteria:**

The tests and/or analysis concludes that each fire pump provides a flow rate of at least 2000 gpm at a total head of at least 350 ft.

## **ITAAC Determination Basis**

The Fire Protection System (FPS) has two fire pumps to suppress fires. The subject Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) requires testing and/or analysis be performed to demonstrate each pump will provide at least 2000 gallons per minute (gpm) at a total head of at least 350 feet (ft).

Each fire pump was tested separately by the manufacturer. Each pump was tested using a test driver (comparably rated electric motor) while collecting data on pump pressure and flow rate. Each test contained eight data points which were analyzed and corrected to account for the driver's rated speed. A certified test report was developed for each pump which includes a plot of total head over the range of the tested flow rates in accordance with Factory Mutual standards (Reference 1).

The results of the test for fire pump, SV4-FPS-MP-01A, are documented in the test report (Reference 2), which demonstrated the fire pump provides a calculated flow rate of 2288.24 gpm at a calculated total head of 356.75 ft.

The results of the test for fire pump, SV4-FPS-MP-01B, are documented in the test report (Reference 3), which demonstrated the fire pump provides a calculated flow rate of 2223.02 gpm at a calculated total head of 356.48 ft.

The manufacturer's tests conclude that each FPS fire pump provides a flow rate of at least 2000 gpm at a total head of at least 350 ft 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 2.3.04.08 (Reference 4) and available for NRC inspection.

**ITAAC Completion Statement**

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.3.04.08 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. Factory Mutual Class Number 1311, August 2007, "Approval Standard for Centrifugal Fire Pumps Split-Case Type (Axial or Radial)"
2. SV4-MS32-VTR-850003, Rev 0, "Certified Test Curves/Nameplates/Hydrostatic Pressure Report"
3. SV4-MS32-VTR-850002, Rev 0, "Certified Test Curves/Nameplates/Hydrostatic Pressure Report"
4. SVP\_SV0\_004816, Attachment 1, "Re-Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 2.3.04.08 (COL Index Number 335) (FPS Fire Pump Flow Rate and Head)"