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SOUTHERN NUCLEAR
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ND-16-0101
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 2.3.04.08 [Index Number 335]

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 2.3.04.08 [Index Number 335] "FPS Fire Pump Flow Rate and Head," for verifying the tests and/or analysis concludes that each Fire Protection System (FPS) fire pump provides a flow rate of at least 2000 gpm at a total head of at least 300 ft. 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 Paulo Albuquerque at 706-848-5531.

Respectfully submitted,

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]

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Southern Nuclear Operating Company
ND-16-0101
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 300 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 300 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 gpm at a total head of at least 300 ft.

Each fire pump was tested separately by the manufacturer. Each pump was tested using a test driver 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 300 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 referenced in the Vogtle Unit 4 ITAAC Completion Package for ITAAC 2.3.04.08 (Reference 4) and is 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, Revision 0, "Certified Test Curves/Nameplates/Hydrostatic Pressure Report"

3. SV4-MS32-VTR-850002, Revision 0, "Certified Test Curves/Nameplates/Hydrostatic Pressure Report"

4. SVP_SV0_003657, Attachment 1, Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 2.3.04.08 (335) (FPS Fire Pump Flow Rate and Head)