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Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 3
ITAAC Closure Notification on Completion of ITAAC C.2.6.12.05 [Index Number 675]

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 and Unit 4 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item C.2.6.12.05 [Index Number 675] for verifying the short circuit contribution of each as-built offsite circuit at the interface with the onsite ac power system is compatible with the interrupting capability of the onsite fault current interrupting devices. The closure process for this ITAAC is based on the guidance described in Nuclear Energy Institute (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 Tom G. Petrak at 706-848-1575.

Respectfully submitted,

Michael J. Yox
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Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 3
Completion of ITAAC C.2.6.12.05 [Index Number 675]

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**Southern Nuclear Operating Company
ND-17-2139
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 3
Completion of ITAAC C.2.6.12.05 [Index Number 675]**

ITAAC Statement

Design Commitment:

5. The fault current contribution of each offsite circuit is compatible with the interrupting capability of the onsite short circuit interrupting devices.

Inspections, Tests, Analyses:

Analyses of the as-built offsite circuit will be performed to evaluate the fault current contribution of each offsite circuit at the interface with the onsite ac power system.

Acceptance Criteria:

A report exists and concludes the short circuit contribution of each as-built offsite circuit at the interface with the onsite ac power system is compatible with the interrupting capability of the onsite fault current interrupting devices.

ITAAC Determination Basis

Analyses of the as-built offsite power system were performed to verify the fault current contribution of each as-built offsite circuit is compatible with the interrupting capability of the onsite short circuit interrupting devices.

The design of the as-built offsite circuits was reviewed and the fault current contribution of each offsite circuit was analyzed for short-circuits under two operational scenarios of the offsite power system. The first scenario was based on Vogtle Units 1, 2, and 3 in normal operation, which is the configuration that will exist once Vogtle Unit 3 is completed and prior to completion of Unit 4. The second scenario was based on Vogtle Units 1, 2, 3, and 4 in normal operation, which is the offsite power system configuration that will have the highest potential fault currents once Vogtle Units 3 and 4 are completed. The results of the analyses are provided in the report, C.2.6.12.05-U3-PCD-Rev 0-01, "Vogtle 3&4 Offsite Power - Maximum Available Fault Currents" (Reference 1).

The design of the onsite alternating current (AC) power system was reviewed to determine that the capabilities of the interrupting devices are compatible with the short circuit contribution of each as-built offsite circuit. The results of the design review are summarized in the report, PCD Summary Report C.2.6.12.05-U3-SumRep-Rev 0, "Review of As-Designed Short-Circuit Capabilities of Onsite AC Power System" (Reference 2). The report concludes the analyses that determined the equipment ratings were performed with a conservative equivalent short-circuit impedance. The equipment rating requirements identified in those analyses were incorporated in the design specifications issued for procurement of the equipment.

The fault capabilities of the onsite AC power system are conservatively designed for fault currents greater than the maximum expected fault currents of the offsite power system. The short-circuit contribution of each as-built offsite circuit at the interface with the onsite AC power system is compatible with the interrupting capability of the onsite fault current interrupting devices.

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 3 ITAAC Completion Package for ITAAC C.2.6.12.05 (Reference 3) and available for NRC inspection.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC C.2.6.12.05 was performed for Vogtle 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. C.2.6.12.05-U3-PCD-Rev 0-01, "Vogtle 3&4 Offsite Power - Maximum Available Fault Currents"
2. C.2.6.12.05-U3-SumRep-Rev 0, "Review of As-Designed Short-Circuit Capabilities of Onsite AC Power System"
3. Vogtle Unit 3 ITAAC Completion Package for ITAAC C.2.6.12.05