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U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555-0001

Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 3
Completion of ITAAC 2.4.02.03.i [Index Number 500]

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 3 Inspection, Test, Analysis and Acceptance Criteria (ITAAC) Item 2.4.02.03.i [Index Number 500], Independence and Isolation of the Turbine Overspeed Protection Systems. 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 706-826-5531.

Respectfully submitted,

David H. Jones

Technical Compliance Vice President

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 3
Completion of ITAAC 2.4.02.03.i[Index Number 500]

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**Southern Nuclear Operating Company**

**ND-14-0458**

**Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 3**

**Completion of ITAAC 2.4.02.03.i [Index Number 500]**

## ITAAC Statement

Design Commitment

The trip signals from the two turbine electrical overspeed protection trip systems are isolated from, and independent of, each other.

Inspection/Test/Analysis

The system design will be reviewed.

Acceptance Criteria

The system design review shows that the trip signals of the two electrical overspeed protection trip systems are isolated from, and independent of, each other.

## ITAAC Determination Basis

Multiple ITAAC are performed to demonstrate that the trip signals from the two turbine electrical overspeed protection trip systems are isolated from, and independent of, each other. The subject ITAAC requires a system design review be performed to show that the trip signals from the two turbine electrical overspeed protection trip systems are isolated from, and independent of, each other.

The system design for the Turbine Control and Protection System (TCPS) was reviewed in accordance with the site procedure for formal design reviews. The AP1000 Plant Control System/Data Display & Processing System Final Design Review Report (Reference 1) shows that each trip is initiated and maintained electrically in separate systems, is located physically in separate cabinets, and is in use of different hardware and software/firmware. These system design attributes eliminate common cause failures (CCFs) from rendering the trip functions inoperable. The system design review shows that the trip signals of the two electrical overspeed protection trip systems are isolated from, and independent of, each other.

## ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, 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 finding review is documented in the ITAAC Completion Package for ITAAC 2.4.02.03.i (Reference 2) and is available for NRC inspection.

## ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.4.02.03.i [Index Number 500] 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. APP-PLS-GGR-007, Revision 2, AP1000 Plant Control System/Data Display & Processing System (FDR-09-29) Final Design Review Report
2. SVP_SV0_002424, Attachment 2, ITAAC 2.4.02.03.i Unit 3 Completion Package