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Date:

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ND-16-2301  
10 CFR 52.99(c)(1)

Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Unit 4  
ITAAC Closure Notification on Completion of ITAAC 2.5.02.07b [Index Number 535]

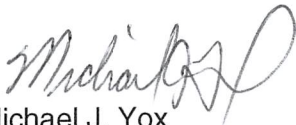
Ladies and Gentlemen:

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 2.5.02.07b [Index Number 535] for verifying a report exists and concludes that the isolation devices prevent credible faults from propagating into the Protection and Safety Monitoring System (PMS) from the Data Display and Processing System (DDS). 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 David Woods at 706-848-6903.

Respectfully submitted,



Michael J. Yox  
Regulatory Affairs Director Vogtle 3&4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4  
Completion of ITAAC 2.5.02.07b [Index Number 535]

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**Southern Nuclear Operating Company  
ND-16-2301  
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4  
Completion of ITAAC 2.5.02.07b [Index Number 535]**

### **ITAAC Statement**

#### **Design Commitment:**

7b) The PMS provides process signals to the DDS through isolation devices.

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

Type tests, analyses, or a combination of type tests and analyses of the isolation devices will be performed.

#### **Acceptance Criteria:**

A report exists and concludes that the isolation devices prevent credible faults from propagating into the PMS.

### **ITAAC Determination Basis**

Analysis was performed on the interfaces between the Protection and Safety Monitoring System (PMS) and the Data Display and Processing System (DDS) as described in the Vogtle 3&4 Updated Final Safety Analysis Report (UFSAR) (Reference 1) to demonstrate that isolation devices prevent credible faults from propagating into the PMS.

Process signals from PMS to DDS are transmitted through a one-way fiber-optic cable. This one-way interface prevents communication faults from entering PMS from DDS. Electrical faults and surges are prevented by the use of fiber-optic communication media which provides electrical isolation. Due to the inherent properties of fiber-optic communication media, fault and surge testing is not necessary.

A further discussion on the fiber optic cables used as isolators between PMS and DDS can be found in AP1000 Protection and Safety Monitoring System Isolation Summary Report for Use in the AP1000 Plant, APP-PMS-VBR-015 (Reference 2) which concludes that the PMS/DDS isolation barriers will adequately isolate and protect the Class 1E PMS equipment from non-Class 1E disturbances.

### **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 is documented in the Vogtle Unit 4 ITAAC Completion Package for ITAAC 2.5.02.07b (Reference 3) and available for NRC inspection.

### **ITAAC Completion Statement**

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.5.02.7b 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. Vogtle 3&4 UFSAR, Section 7A
2. APP-PMS-VBR-015, "AP1000 Protection and Safety Monitoring System Isolation Summary Report for Use in the AP1000 Plant," Rev. 0
3. SVP\_SV0\_004270, Attachment 1 "Submittal of Inspections, Tests, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 2.5.02.07b [COL Index Number 535] (Isolation Devices for the Prevention of Fault Propagation into PMS from DDS)"