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ND-16-0690  
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 2.6.01.02.ii [Index Number 580]

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 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.6.01.02.ii [Index Number 580] for verifying that a report exists and concludes that the seismic Category I equipment in the Main AC Power System (ECS) can withstand seismic design basis loads without a loss of safety function. 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 2.6.01.02.ii [Index Number 580]

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**Southern Nuclear Operating Company**  
**ND-16-0690**  
**Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4**  
**Completion of ITAAC 2.6.01.02.ii [Index Number 580]**

### **ITAAC Statement**

#### **Design Commitment:**

*2. The seismic Category I equipment identified in Table 2.6.1-1 can withstand seismic design basis loads without loss of safety function.*

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

*ii) Type tests, analyses, or a combination of type tests and analyses of seismic Category equipment will be performed.*

#### **Acceptance Criteria:**

*ii) A report exists and concludes that the seismic Category I equipment can withstand seismic design basis loads without loss of safety function.*

### **ITAAC Determination Basis**

Multiple ITAAC are performed to demonstrate the seismic Category I equipment identified in VEGP Unit 4 Combined License (COL), Appendix C, Table 2.6.1-1 (Attachment A) can withstand seismic design basis loads without loss of safety function. The subject ITAAC requires type tests, analyses, or a combination of type tests and analyses to be performed on seismic Category I equipment identified in VEGP Unit 4 COL Appendix C Table 2.6.1-1.

The seismic Category I equipment identified in VEGP Unit 4 COL Appendix C Table 2.6.1-1 were seismically qualified by type testing combined with analysis in accordance with IEEE Standard 344-1987, "IEEE Recommended Practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations" (Reference 1) to demonstrate the equipment can withstand design basis loads without loss of safety function. Additional information regarding the methods used to qualify safety-related equipment supplied for the AP1000 is provided in Updated Final Safety Analysis Report (UFSAR) Appendix 3D, "Methodology for Qualifying AP1000 Safety-Related Electrical and Mechanical Equipment," (Reference 2).

The following Main AC Power System (ECS) Equipment Qualification Summary Report (EQSR) and Equipment Qualification Data Package (EQDP) document the results of seismic testing and analysis for the seismic Category I equipment identified in VEGP Unit 3 COL Appendix C Table 2.6.1-1:

- APP-ES02-VBR-003, "Equipment Qualification Data Package for the Reactor Coolant Pump (RCP) Switchgear for Use in the AP1000 Plant" (Reference 3)
- APP-ES02-VBR-001, "Equipment Qualification Summary Report for the Reactor Coolant Pump (RCP) Switchgear for Use in the AP1000 Plant" (Reference 4)

The EQSR and EQDP, which comply with the requirements of UFSAR Chapter 3, exist and conclude the seismic Category I equipment identified in VEGP Unit 4 COL Appendix C Table 2.6.1-1 can withstand seismic design basis loads without loss of safety function.

### **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 2.6.01.02.ii (Reference 5) and available for NRC inspection.

### **ITAAC Completion Statement**

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.6.01.02.ii was performed for Vogtle 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. IEEE 344-1987, Recommended Practices for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations
2. VEGP Unit 3 and 4 UFSAR, Appendix 3D
3. APP-ES02-VBR-003 Rev 4, Equipment Qualification Data Package for the RCP Switchgear for Use in the AP1000 Plant
4. APP-ES02-VBR-001 Rev 5, Equipment Qualification Summary Report for the RCP Switchgear for Use in the AP1000 Plant
5. SVP\_SV0\_003839, Attachment 1, Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 2.6.01.02.ii [COL Index No. 580] (ECS System Seismic Category 1 Equipment Design Basis Loads)

**Attachment A**

**EQUIPMENT QUALIFICATION ITAAC COMPLIANCE TABLE**

**SYSTEM: MAIN AC POWER SYSTEM**

<b>Equipment Name</b>	<b>Tag Number</b>	<b>Seismic Cat. I</b>	<b>Type of Qualification</b>
Reactor Coolant Pump (RCP) Circuit Breaker	ECS-ES-31	Yes	Type Test & Analysis
RCP Circuit Breaker	ECS-ES-32	Yes	Type Test & Analysis
RCP Circuit Breaker	ECS-ES-41	Yes	Type Test & Analysis
RCP Circuit Breaker	ECS-ES-42	Yes	Type Test & Analysis
RCP Circuit Breaker	ECS-ES-51	Yes	Type Test & Analysis
RCP Circuit Breaker	ECS-ES-52	Yes	Type Test & Analysis
RCP Circuit Breaker	ECS-ES-61	Yes	Type Test & Analysis
RCP Circuit Breaker	ECS-ES-62	Yes	Type Test & Analysis