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Docket No.: 52-025

**DEC 27 2016**

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

ND-16-2712  
10 CFR 52.99(c)(1)

Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Unit 3  
ITAAC Closure Notification on Completion of ITAAC 2.2.02.06a.i [Index Number 131]

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 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) 2.2.02.06a.i [Index Number 131] for harsh environment qualification of the Passive Containment Cooling System Class 1E components identified in Combined License (COL) Appendix C, Table 2.2.2-1. 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  
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Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 3  
Completion of ITAAC 2.2.02.06a.i [Index Number 131]

MJY/rlb/amm

U.S. Nuclear Regulatory Commission

ND-16-2712

Page 2 of 3

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U.S. Nuclear Regulatory Commission  
ND-16-2712  
Page 3 of 3

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**Southern Nuclear Operating Company  
ND-16-2712  
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 3  
Completion of ITAAC 2.2.02.06a.i [Index Number 131]**

## **ITAAC Statement**

### **Design Commitment:**

6.a) The Class 1E components identified in Table 2.2.2-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.

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

i) Type tests or a combination of type tests and analyses will be performed on Class 1E components located in a harsh environment.

### **Acceptance Criteria:**

i) A report exists and concludes that the Class 1E components identified in Table 2.2.2-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.

## **ITAAC Determination Basis**

Multiple Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) are performed to demonstrate that the Class 1E components identified in Combined License (COL) Appendix C, Table 2.2.2-1 (Attachment A) as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function. The subject ITAAC requires type tests or a combination of type tests and analyses to be performed on Class 1E components located in a harsh environment.

The Class 1E components identified in COL Appendix C, Table 2.2.2-1 were qualified by a combination of type testing and analysis in accordance with The Institute of Electrical and Electronics Engineers, Inc. (IEEE) 323-1974 (Reference 1) and Regulatory Guide 1.89, "Qualification of Class 1E Equipment for Nuclear Power Plants", to meet the requirements of 10 CFR 50.49, "Environmental Qualification of Electrical Equipment Important to Safety for Nuclear Power Plants" and to demonstrate that the components can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function. Additional information about the methods used to qualify safety-related equipment supplied for the AP1000 is provided in the Vogtle Units 3&4 Updated Final Safety Analysis Report, Appendix 3D, "Methodology for Qualifying AP1000 Safety-Related Electrical and Mechanical Equipment" (Reference 2).

The results of the tests and analysis are documented in Equipment Qualification Data Package (EQDP) and Equipment Qualification Summary Report (EQSR) (References 3 and 4) identified in Attachment A and conclude the components identified in COL Appendix C, Table 2.2.2-1, can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the 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 3 ITAAC Completion Package for ITAAC 2.2.02.06a.i (Reference 5) and available for Nuclear Regulatory Commission (NRC) inspection.

### **ITAAC Completion Statement**

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.2.02.06a.i 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. IEEE STD 323-1974, "IEEE Standard for Qualifying Class IE Equipment for Nuclear Power Generating Stations"
2. VEGP 3&4 Updated Final Safety Analysis Report, Appendix 3D, "Methodology for Qualifying AP1000 Safety-Related Electrical and Mechanical Equipment"
3. APP-JE52-VBR-006, Revision 1, "Equipment Qualification Data Package for NLI Differential Pressure Transmitters for Use in the AP1000 Plant"
4. APP-JE52-VBR-005, Revision 1, "Equipment Qualification Summary Report for NLI Differential Pressure Transmitters for Use in the AP1000 Plant"
5. SVP\_SV0\_004551, Attachment 1, Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 3 2.2.02.06a.i [COL Index Number 131] (PCS Harsh Environment Qualification)

**Attachment A**

**Equipment Qualification ITAAC Compliance Table**

**Excerpt from VEGP Unit 3 COL Appendix C Table 2.2.2-1\***

**SYSTEM: PASSIVE CONTAINMENT COOLING SYSTEM**

<b>Component Name*</b>	<b>Tag No.*</b>	<b>Class 1E / Qual. For Harsh Envir.*</b>	<b>EQSR Number</b>	<b>EQDP Number</b>
Containment Pressure Sensor	PCS-005	Yes/Yes	APP-JE52-VBR-005	APP-JE52-VBR-006
Containment Pressure Sensor	PCS-006	Yes/Yes	APP-JE52-VBR-005	APP-JE52-VBR-006
Containment Pressure Sensor	PCS-007	Yes/Yes	APP-JE52-VBR-005	APP-JE52-VBR-006
Containment Pressure Sensor	PCS-008	Yes/Yes	APP-JE52-VBR-005	APP-JE52-VBR-006
High-range Containment Pressure Sensor	PCS-012	Yes/Yes	APP-JE52-VBR-005	APP-JE52-VBR-006
High-range Containment Pressure Sensor	PCS-013	Yes/Yes	APP-JE52-VBR-005	APP-JE52-VBR-006
High-range Containment Pressure Sensor	PCS-014	Yes/Yes	APP-JE52-VBR-005	APP-JE52-VBR-006