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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 4  
ITAAC Closure Notification on Completion of ITAAC 2.3.07.05.i [Index Number 396]

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 4 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.3.07.05.i [Index Number 396] for verifying that an inspection was performed and concludes that the seismic Category I components identified in VEGP Unit 4 Combined License (COL) Appendix C, Table 2.3.7-1 are located on the Nuclear Island. 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,

A handwritten signature in blue ink, appearing to read "Michael J. Yox", written over a horizontal line.

Michael J. Yox  
Regulatory Affairs Director Vogtle 3&4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4  
Completion of ITAAC 2.3.07.05.i [Index Number 396]

MJY/hma/amm

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**Southern Nuclear Operating Company  
ND-16-2777  
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4  
Completion of ITAAC 2.3.07.05.i [Index Number 396]**

### **ITAAC Statement**

#### **Design Commitment:**

5. The seismic Category I components identified in Table 2.3.7-1 can withstand seismic design basis loads without loss of safety functions.

#### **Inspections, Tests, Analysis:**

- i) Inspection will be performed to verify that the seismic Category I components identified in Table 2.3.7-1 are located on the Nuclear Island.

#### **Acceptance Criteria:**

- i) The seismic Category I components identified in Table 2.3.7-1 are located on the Nuclear Island.

### **ITAAC Determination Basis**

Multiple ITAAC are performed to demonstrate that the components identified in VEGP Unit 4 Combined License (COL) Appendix C, Table 2.3.7-1 can withstand seismic design basis loads without loss of safety function.

This ITAAC requires an inspection be performed to verify that the Spent Fuel Pool Cooling System (SFS) components (valves & level transmitters) identified in Table 2.3.7-1 (Attachment A) are located on the Nuclear Island, which is a Seismic Category I structure. Subsequent ITAAC 2.3.07.05.ii (Index Number 397) verify that the component is seismically qualified and ITAAC 2.3.07.05.iii (Index Number 398) verify that the component is installed and seismically bounded for the as-built location (i.e., Nuclear Island). Completion of these multiple ITAAC will confirm the equipment can withstand seismic design basis loads without loss of its safety function.

The piping isometric drawings (References 5-16) which are issued for construction for each component were visually inspected and each component listed in Attachment A was verified to be located on the nuclear island per design. The location of the piping isometric drawings which contains the components was compared to the Nuclear Island General Arrangement Plan at El 82'-6", SV4-1020-P2-001 (Reference 3); Nuclear Island General Arrangement Plan at El 100'-0" & 107'-2", SV4-1030-P2-001 (Reference 4) and were verified to be located within the bounds of the column lines shown on the Nuclear Island General Arrangement Plan, thereby confirming that the components in Attachment A are located on the Nuclear Island.

The results of the inspections are documented in the Inspection Report (Reference 1) and conclude that the seismic Category I Components identified in Table 2.3.7-1 are located on the Nuclear Island.

### **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 2.3.07.05.i (Reference 2) and available for NRC inspection.

### **ITAAC Completion Statement**

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.3.07.05.i 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. SV4-SFS-ITR-001, Revision 0, "Inspection Report Confirming SFS Components are Located on the Nuclear Island"
2. SVP\_SV0\_004530, Attachment 1, "Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 2.3.07.05.i [Index Number 396] (SFS System Seismic Category I Equipment Location)"
3. SV4-1020-P2-001, Revision 0, "Nuclear Island General Arrangement Plan At El. 82'-6"
4. SV4-1030-P2-001, Revision 1, "Nuclear Island General Arrangement Plan At El. 100'-0" & 107'-2"
5. SV4-SFS-JTW-001, Revision 0, "Spent Fuel Pool Cooling System Auxiliary Building Room 12365 SFP Level Transmitter SFS-JE-LT019A"
6. SV4-SFS-JTW-002, Revision 0, "Spent Fuel Pool Cooling System Auxiliary Building Room 12365 SFP Level Transmitter SFS-JE-LT019C"
7. SV4-SFS-JTW-003, Revision 0, "Spent Fuel Pool Cooling System Auxiliary Building Room 12365 Spent Fuel Pool to LT019B"
8. SV4-SFS-PLW-35A, Revision 0, "Spent Fuel Pool Cooling System Auxiliary Building Room 12365 WLS Processing Line"
9. SV4-SFS-PLW-350, Revision 1, "Spent Fuel Pool Cooling System Auxiliary Building Room 12365 FTC / SFP / CLP Common Water Transfer Line"

10. SV4-SFS-PLW-352, Revision 0, "Spent Fuel Pool Cooling System Auxiliary Bldg Room 12365 SFP / CLP Common Header"
11. SV4-SFS-PLW-354, Revision 1, "Spent Fuel Pool Cooling System Auxiliary Building Room 12365 Spent Fuel Pool Drain"
12. SV4-SFS-PLW-750, Revision 1, "Spent Fuel Pool Cooling System Containment Building Room 11300 from Refueling Cavity Line SFS-PL-L120"
13. SV4-SFS-PLW-757, Revision 2, "Spent Fuel Pool Cooling System Containment Building Room 11206 Collected Drain Lines to CTMT Sump"
14. SV4-SFS-PLW-780, Revision 1, "Spent Fuel Pool Cooling System Containment BLDG Room 11206 Refueling Cavity to SG Compartment"
15. SV4-SFS-PLW-786, Revision 2, "Spent Fuel Pool Cooling System Containment BLDG Room 11206 Refueling Cavity to SFS Pumps Suction"
16. SV4-SFS-PLW-788, Revision 2, "Spent Fuel Pool Cooling System Containment BLDG Room 11206 SFS Containment Isolation Valves"

**Attachment A**

**SYSTEM: Spent Fuel Pool Cooling System (SFS)**

Excerpt from COL Appendix C Table 2.3.7-1\*

<b>Component Name *</b>	<b>Tag No. *</b>	<b>Seismic Cat. I *</b>	<b>Isometric Drawing</b>	<b>General Arrangement Drawing</b>
Spent Fuel Pool Level Sensor	SFS-019A	Yes	SV4-SFS-JTW-001 (Reference 5)	SV4-1020-P2-001 (Reference 3)
Spent Fuel Pool Level Sensor	SFS-019B	Yes	SV4-SFS-JTW-003 (Reference 7)	SV4-1020-P2-001 (Reference 3)
Spent Fuel Pool Level Sensor	SFS-019C	Yes	SV4-SFS-JTW-002 (Reference 6)	SV4-1020-P2-001 (Reference 3)
Refueling Cavity Drain to SGS Compartment Isolation Valve	SFS-PL-V031	Yes	SV4-SFS-PLW-780 (Reference 14)	SV4-1020-P2-001 (Reference 3)
Refueling Cavity to SFS Pump Suction Isolation Valve	SFS-PL-V032	Yes	SV4-SFS-PLW-786 (Reference 15)	SV4-1020-P2-001 (Reference 3)
Refueling Cavity Drain to Containment Sump Isolation Valve	SFS-PL-V033	Yes	SV4-SFS-PLW-757 (Reference 13)	SV4-1020-P2-001 (Reference 3)
IRWST to SFS Pump Suction Line Isolation Valve	SFS-PL-V039	Yes	SV4-SFS-PLW-788 (Reference 16)	SV4-1020-P2-001 (Reference 3)
Fuel Transfer Canal to SFS Pump Suction Iso. Valve	SFS-PL-V040	Yes	SV4-SFS-PLW-350 (Reference 9)	SV4-1020-P2-001 (Reference 3)
Cask Loading Pit to SFS Pump Suction Isolation Valve	SFS-PL-V041	Yes	SV4-SFS-PLW-352 (Reference 10)	SV4-1020-P2-001 (Reference 3)



<b>Component Name *</b>	<b>Tag No. *</b>	<b>Seismic Cat. I *</b>	<b>Isometric Drawing</b>	<b>General Arrangement Drawing</b>
Cask Loading Pit to SFS Pump Suction Isolation Valve	SFS-PL-V042	Yes	SV4-SFS-PLW-350 (Reference 9)	SV4-1020-P2-001 (Reference 3)
SFS Pump Discharge Line to Cask Loading Pit Isolation Valve	SFS-PL-V045	Yes	SV4-SFS-PLW-352 (Reference 10)	SV4-1020-P2-001 (Reference 3)
Cask Loading Pit to WLS Isolation Valve	SFS-PL-V049	Yes	SV4-SFS-PLW-35A (Reference 8)	SV4-1020-P2-001 (Reference 3)
Spent Fuel Pool to Cask Washdown Pit Isolation Valve	SFS-PL-V066	Yes	SV4-SFS-PLW-354 (Reference 11)	SV4-1020-P2-001 (Reference 3)
Cask Washdown Pit Drain Isolation Valve	SFS-PL-V068	Yes	SV4-SFS-PLW-352 (Reference 10)	SV4-1020-P2-001 (Reference 3)
Refueling Cavity Drain Line Check Valve	SFS-PL-V071	Yes	SV4-SFS-PLW-780 (Reference 14)	SV4-1020-P2-001 (Reference 3)
Refueling Cavity Drain Line Check Valve	SFS-PL-V072	Yes	SV4-SFS-PLW-780 (Reference 14)	SV4-1020-P2-001 (Reference 3)
SFS Containment Floodup Isolation Valve	SFS-PL-V075	Yes	SV4-SFS-PLW-750 (Reference 12)	SV4-1030-P2-001 (Reference 4)