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Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Unit 4  
ITAAC Closure Notification on Completion of ITAAC 2.3.02.05.i [Index Number 291]

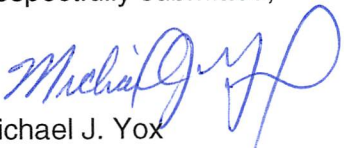
Ladies and Gentlemen:

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 2.3.02.05.i [Index Number 291] for verifying that an inspection was performed and concludes that the seismic Category I equipment and valves identified in VEGP Unit 4 Combined License (COL) Appendix C, Table 2.3.2-1 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,



Michael J. Yox  
Regulatory Affairs Director Vogtle 3&4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4  
Completion of ITAAC 2.3.02.05.i [Index Number 291]

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ND-16-2772

Page 3 of 3

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**Southern Nuclear Operating Company  
ND-16-2772  
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4  
Completion of ITAAC 2.3.02.05.i [Index Number 291]**

### **ITAAC Statement**

#### **Design Commitment:**

5. The seismic Category I equipment identified in Table 2.3.2-1 can withstand seismic design basis loads without loss of safety function.

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

- i) Inspection will be performed to verify that the seismic Category I equipment identified in Table 2.3.2-1 is located on the Nuclear Island.

#### **Acceptance Criteria:**

- i) The seismic Category I equipment identified in Table 2.3.2-1 is located on the Nuclear Island.

### **ITAAC Determination Basis**

Multiple ITAAC are performed to demonstrate that the equipment identified in VEGP Unit 4 Combined License (COL) Appendix C, Table 2.3.2-1 can withstand seismic design basis loads without loss of safety function.

This ITAAC requires an inspection be performed to verify that the Chemical and Volume Control System (CVS) equipment (valves) identified in Table 2.3.2-1 (Attachment A) are located on the Nuclear Island, which is a Seismic Category I structure. Subsequent ITAAC 2.3.02.05.ii (Index Number 292) verify that the equipment is seismically qualified and ITAAC 2.3.02.05.iii (Index Number 293) verify that the equipment is installed and seismically bounded for the as-built location (i.e., containment building). 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 6-22) which are issued for construction for each valve were visually inspected and each valve 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 valves 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); Nuclear Island General Arrangement Plan at El. 117'-6", SV4-1040-P2-001 (Reference 5) 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 valves 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 equipment identified in Table 2.3.2-1 is 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 2.3.02.05.i (Reference 2) and available for NRC inspection.

### **ITAAC Completion Statement**

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.3.02.05.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-CVS-ITR-001, Revision 0, "Inspection Report Confirming CVS Equipment is Located on the Nuclear Island"
2. SVP\_SV0\_004512, Attachment 1, "Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 2.3.02.05.i [COL Index Number 291] (CVS 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. SV4-1040-P2-001, Revision 0, "Nuclear Island General Arrangement Plan At El. 117'-6""
6. SV4-CVS-PLW-75B, Revision 2, "Chemical and Volume Control System Auxiliary Building Room 12306 Piping in Module 1231-KB-36"
7. SV4-CVS-PLW-090, Revision 1, "Chemical and Volume Control System Containment Building Room 11300 Piping in Module 1132-Q3-05"
8. SV4-CVS-PLW-096, Revision 1, "Chemical and Volume Control System Containment Building Room 11300 Piping in Module 1132-Q3-05"
9. SV4-CVS-PLW-100, Revision 2, "Chemical and Volume Control System Containment Building Room 11300 Piping in Module 1132-Q3-05"
10. SV4-CVS-PLW-112, Revision 1, "Chemical and Volume Control System Containment Building Room 11209 Spent Resin from V040 to Cont Pen."

11. SV4-CVS-PLW-171, Revision 1, "Chemical and Volume Control System Containment Bldg Room 11401/11403 CVS Letdown Line"
12. SV4-CVS-PLW-182, Revision 2, "Chemical and Volume Control System Containment Bldg Room 11303 CVS Return Line Regen. HT-PRZ Spray"
13. SV4-CVS-PLW-186, Revision 4, "Chemical and Volume Control System Containment Building Room 11303 CVS Return Piping Assy from Regen HX."
14. SV4-CVS-PLW-187, Revision 4, "Chemical and Volume Control System Containment Building Room 11303 CVS Return Line Piping Assy from Regen"
15. SV4-CVS-PLW-188, Revision 3, "Chemical and Volume Control System Containment Building Room 11303 CVS Return Line Piping Assy from Regen"
16. SV4-CVS-PLW-280, Revision 0, "Chemical and Volume Control System Containment Building Room 11300 Zinc Addition Line from CVS-PL-C04/P08"
17. SV4-CVS-PLW-512, Revision 1, "Chemical and Volume Control System Shield Buidling Room 12244 from Cont. to WSS SRT"
18. SV4-CVS-PLW-522, Revision 1, "Chemical and Volume Control System Auxiliary Building Room 12244 CVS Letdown to WLS Degasifier "
19. SV4-CVS-PLW-532, Revision 2, "Chemical and Volume Control System Auxiliary Building Room 12244 CVS Makeup"
20. SV4-CVS-PLW-580, Revision 1, "Chemical and Volume Control System Room 12251 Auxiliary BLDG Area 4 from Demin. Wtr. Supply to Makeup Pumps"
21. SV4-CVS-PLW-701, Revision 1, "Chemical and Volume Control System Auxiliary Building Room 12306 Piping in Module 1231-KB-36"
22. SV4-CVS-PLW-760, Revision 2, "Chemical and Volume Control System Containment Building Room 11300 H2 Addition LN from ORC Reducer Inlet"

**Attachment A**

**SYSTEM: Chemical and Volume Control System (CVS)**

Excerpt from COL Appendix C Table 2.3.2-1\*

<b>Equipment Name *</b>	<b>Tag No. *</b>	<b>Seismic* Cat. I</b>	<b>Isometric Drawing</b>	<b>General Arrangement Drawing</b>
RCS Purification Motor-operated Isolation Valve	CVS-PL-V001	Yes	SV4-CVS-PLW-171 (Reference 11)	SV4-1040-P2-001 (Reference 5)
RCS Purification Motor-operated Isolation Valve	CVS-PL-V002	Yes	SV4-CVS-PLW-171 (Reference 11)	SV4-1040-P2-001 (Reference 5)
RCS Purification Motor-operated Isolation Valve	CVS-PL-V003	Yes	SV4-CVS-PLW-171 (Reference 11)	SV4-1040-P2-001 (Reference 5)
CVS Resin Flush Line Containment Isolation Valve	CVS-PL-V040	Yes	SV4-CVS-PLW-112 (Reference 10)	SV4-1030-P2-001 (Reference 4)
CVS Resin Flush Line Containment Isolation Valve	CVS-PL-V041	Yes	SV4-CVS-PLW-512 (Reference 17)	SV4-1020-P2-001 (Reference 3)
CVS Demineralizer Resin Flush Line Containment Isolation Thermal Relief Valve	CVS-PL-V042	Yes	SV4-CVS-PLW-112 (Reference 10)	SV4-1030-P2-001 (Reference 4)
CVS Letdown Containment Isolation Valve	CVS-PL-V045	Yes	SV4-CVS-PLW-100 (Reference 9)	SV4-1030-P2-001 (Reference 4)
CVS Letdown Containment Isolation Valve	CVS-PL-V047	Yes	SV4-CVS-PLW-522 (Reference 18)	SV4-1020-P2-001 (Reference 3)
CVS Letdown Line Containment Isolation Thermal Relief Valve	CVS-PL-V058	Yes	SV4-CVS-PLW-100 (Reference 9)	SV4-1030-P2-001 (Reference 4)
CVS Makeup Return Line Bypass Check Valve	CVS-PL-V067	Yes	SV4-CVS-PLW-187 (Reference 14)	SV4-1030-P2-001 (Reference 4)
CVS Purification Return Line Pressure Boundary Check Valve	CVS-PL-V080	Yes	SV4-CVS-PLW-186 (Reference 13)	SV4-1030-P2-001 (Reference 4)
CVS Purification Return Line Pressure Boundary Isolation Check Valve	CVS-PL-V081	Yes	SV4-CVS-PLW-188 (Reference 15)	SV4-1030-P2-001 (Reference 4)
CVS Purification Return Line Pressure Boundary Check Valve	CVS-PL-V082	Yes	SV4-CVS-PLW-188 (Reference 15)	SV4-1030-P2-001 (Reference 4)



<b>Equipment Name *</b>	<b>Tag No. *</b>	<b>Seismic* Cat. I</b>	<b>Isometric Drawing</b>	<b>General Arrangement Drawing</b>
CVS Auxiliary Pressurizer Spray Line Pressure Boundary Valve	CVS-PL-V084	Yes	SV4-CVS-PLW-182 (Reference 12)	SV4-1030-P2-001 (Reference 4)
CVS Auxiliary Pressurizer Spray Line Pressure Boundary Check Valve	CVS-PL-V085	Yes	SV4-CVS-PLW-182 (Reference 12)	SV4-1030-P2-001 (Reference 4)
CVS Makeup Line Containment Isolation Motor-operated Valve	CVS-PL-V090	Yes	SV4-CVS-PLW-532 (Reference 19)	SV4-1020-P2-001 (Reference 3)
CVS Makeup Line Containment Isolation Motor-operated Valve	CVS-PL-V091	Yes	SV4-CVS-PLW-090 (Reference 7)	SV4-1030-P2-001 (Reference 4)
CVS Zinc Injection Containment Isolation Valve ORC	CVS-PL-V092	Yes	SV4-CVS-PLW-701 (Reference 21)	SV4-1030-P2-001 (Reference 4)
CVS Zinc Injection Containment Isolation Valve IRC	CVS-PL-V094	Yes	SV4-CVS-PLW-280 (Reference 16)	SV4-1030-P2-001 (Reference 4)
CVS Zinc Addition Line Ctmt Isol Thermal Relief Valve	CVS-PL-V098	Yes	SV4-CVS-PLW-280 (Reference 16)	SV4-1030-P2-001 (Reference 4)
CVS Makeup Line Containment Isolation Thermal Relief Valve	CVS-PL-V100	Yes	SV4-CVS-PLW-096 (Reference 8)	SV4-1030-P2-001 (Reference 4)
CVS Demineralized Water Isolation Valve	CVS-PL-V136A	Yes	SV4-CVS-PLW-580 (Reference 20)	SV4-1020-P2-001 (Reference 3)
CVS Demineralized Water Isolation Valve	CVS-PL-V136B	Yes	SV4-CVS-PLW-580 (Reference 20)	SV4-1020-P2-001 (Reference 3)
CVS Hydrogen Injection Containment Isolation Check Valve IRC	CVS-PL-V217	Yes	SV4-CVS-PLW-760 (Reference 22)	SV4-1030-P2-001 (Reference 4)
CVS Hydrogen Injection Containment Isolation Valve ORC	CVS-PL-V219	Yes	SV4-CVS-PLW-75B (Reference 6)	SV4-1030-P2-001 (Reference 4)