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Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 4
ITAAC Closure Notification on Completion of ITAAC 2.3.06.05a.i [Index Number 361]

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 2.3.06.05a.i [Index Number 361] for verifying that an inspection was performed and concludes that the seismic Category I equipment identified in VEGP Unit 4 Combined License (COL) Appendix C, Table 2.3.6-1 is 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 2.3.06.05a.i [Index Number 361]

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**Southern Nuclear Operating Company
ND-16-2773
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.3.06.05a.i [Index Number 361]**

ITAAC Statement

Design Commitment:

- 5.a) The seismic Category I equipment identified in Table 2.3.6-1 can withstand seismic design basis loads without loss of its safety function.

Inspections, Tests, Analysis:

- i) Inspection will be performed to verify that the seismic Category I equipment and valves identified in Table 2.3.6-1 are located on the Nuclear Island.

Acceptance Criteria:

- i) The seismic Category I equipment identified in Table 2.3.6-1 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 2.3.6-1 can withstand seismic design basis loads without loss of safety function.

This ITAAC requires an inspection be performed to verify that the Normal Residual Heat Removal System (RNS) equipment identified in Table 2.3.6-1 (Attachment A) are located on the Nuclear Island, which is a Seismic Category I structure. Subsequent ITAAC 2.3.06.05a.ii (Index Number 362) verify that the equipment is seismically qualified and ITAAC 2.3.06.05a.iii (Index Number 363) verify that the equipment 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 7-26) which are issued for construction for each equipment were visually inspected and each equipment listed in Attachment A was verified to be located on the nuclear island per design. The location of the piping isometric drawings which contains or connects to the equipment was compared to the Nuclear Island General Arrangement Plan at Elevation 66'-6", 82'-6", 92'-6" and 100'-0" & 107'-2" per SV4-1010-P2-001 (Reference 3), SV4-1020-P2-001 (Reference 4), SV4-1020-P2-002 (Reference 5) and SV4-1030-P2-001 (Reference 6), respectively, 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 equipment 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 2.3.6-1 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 2.3.06.05a.i (Reference 2) and available for NRC inspection.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.3.06.05a.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-RNS-ITR-001, Revision 0, "Inspection Report Confirming Normal Residual Heat Removal System (RNS) Seismic Category I Equipment is Located on the Nuclear Island, ITAAC 2.3.06.05a.i"
2. SVP_SV0_004532, Attachment 1, "Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 2.3.06.05a.i [Index Number 361] (RNS System Seismic Category I Equipment Location)"
3. SV4-1010-P2-001 Revision 1, "Nuclear Island General Arrangement Plan at EL. 66'-6"
4. SV4-1020-P2-001 Revision 0, "Nuclear Island General Arrangement Plan at EL. 82'-6"
5. SV4-1020-P2-002 Revision 0, "Nuclear Island General Arrangement Plan at EL. 92'-6"
6. SV4-1030-P2-001 Revision 1, "Nuclear Island General Arrangement Plan at EL. 100'-0" & 107'-2"
7. SV4-RNS-PLW-014 Revision 2, "Normal Residual Heat Removal System Containment Building Room 11208 From Hot Leg to Cont. Penetration"
8. SV4-RNS-PLW-016 Revision 1, "Normal Residual Heat Removal System Containment Building Room 11208 From IRWST to Cont. Penetration"
9. SV4-RNS-PLW-17D Revision 1, "Normal Residual Heat Rem. System Auxiliary Building Room 12256 RNS Pumps MP01A/B Supply Lines"
10. SV4-RNS-PLW-17U Revision 0, "Normal Residual Heat Rem. System Auxiliary Building Room 12262 MP-01A Disc. Fr Pump to Common Disch."

11. SV4-RNS-PLW-021 Revision 2, "Normal Residual Heat Removal System Containment Building Room 11208 CVS Regen HX Return and V020 Inlet"
12. SV4-RNS-PLW-024 Revision 4, "Normal Residual Heat Removal System Containment Building Room 11208 Relief Valves V020/021 Discharge to WLS"
13. SV4-RNS-PLW-093 Revision 0, "Normal Residual Heat Rem. System Auxiliary Building Room 12256 RNS Pumps MP01A/B Suction Lines"
14. SV4-RNS-PLW-098 Revision 2, "Normal Residual Heat Rem. System Auxiliary Building Room 12365 From Cask Loading Pit"
15. SV4-RNS-PLW-141 Revision 1, "Normal Residual Heat Rem. System Auxiliary Building Room 12162/12262 MP-01A Discharge From Pump to ME-01A"
16. SV4-RNS-PLW-142 Revision 1, "Normal Residual Heat Rem. System Auxiliary Building Room 12162/12362 MP-01A Discharge From Pump to ME-01A"
17. SV4-RNS-PLW-161 Revision 1, "Normal Residual Heat Rem. System Auxiliary Building Room 12163/12262 MP-01B Discharge From Pump to ME-01B"
18. SV4-RNS-PLW-162 Revision 0, "Normal Residual Heat Rem. System Auxiliary Building Room 12162/12362 MP-01B Discharge From Pump to ME-01B"
19. SV4-RNS-PLW-173 Revision 0, "Normal Residual Heat Rem. System Auxiliary Building Room 12262 Pump A Disch. to Miniflow Orifice"
20. SV4-RNS-PLW-175 Revision 0, "Normal Residual Heat Rem. System Auxiliary Building Room 12262 RNS HX ME-01B Flow Control & Bypass"
21. SV4-RNS-PLW-181 Revision 1, "Normal Residual Heat Removal System Containment Building Room 11206 RNS Supply From Containment Penet."
22. SV4-RNS-PLW-184 Revision 1, "Normal Residual Heat Removal System Containment Building Room 11206 RNS to DVI-A and IRWST"
23. SV4-RNS-PLW-186 Revision 2, "Normal Residual Heat Removal System Containment Building Room 11206 RNS Supply to IRWST"
24. SV4-RNS-PLW-192 Revision 2, "Normal Residual Heat Removal System Containment Building Room 11207 RNS to DVI-B"
25. SV4-RNS-PLW-403 Revision 2, "Normal Residual Heat Removal System Containment Building Room 11208 Thermal Relief Line for V001A/V002A"
26. SV4-RNS-PLW-423 Revision 2, "Normal Residual Heat Removal System Containment Building Room 11208 Thermal Relief Line for V001B/V002B"

Attachment A

SYSTEM: Normal Residual Heat Removal System (RNS)

Excerpt from COL Appendix C Table 2.3.6-1*

Equipment Name*	Tag No.*	Seismic Cat. I*	Isometric Drawing	General Arrangement Plan
RNS Pump A (Pressure Boundary)	RNS-MP-01A	Yes	SV4-RNS-PLW-141 (Reference 15)	SV4-1010-P2-001 (Reference 3)
RNS Pump B (Pressure Boundary)	RNS-MP-01B	Yes	SV4-RNS-PLW-161 (Reference 17)	SV4-1010-P2-001 (Reference 3)
RNS Heat Exchanger A (Tube Side)	RNS-ME-01A	Yes	SV4-RNS-PLW-142 (Reference 16)	SV4-1030-P2-001 (Reference 6)
RNS Heat Exchanger B (Tube Side)	RNS-ME-01B	Yes	SV4-RNS-PLW-162 (Reference 18)	SV4-1030-P2-001 (Reference 6)
RCS Inner Hot Leg Suction Motor-operated Isolation Valve	RNS-PL-V001A	Yes	SV4-RNS-PLW-014 (Reference 7)	SV4-1020-P2-002 (Reference 5)
RCS Inner Hot Leg Suction Motor-operated Isolation Valve	RNS-PL-V001B	Yes	SV4-RNS-PLW-014 (Reference 7)	SV4-1020-P2-002 (Reference 5)
RCS Outer Hot Leg Suction Motor-operated Isolation Valve	RNS-PL-V002A	Yes	SV4-RNS-PLW-014 (Reference 7)	SV4-1020-P2-002 (Reference 5)
RCS Outer Hot Leg Suction Motor-operated Isolation Valve	RNS-PL-V002B	Yes	SV4-RNS-PLW-014 (Reference 7)	SV4-1020-P2-002 (Reference 5)
RCS Pressure Boundary Thermal Relief Check Valve	RNS-PL-V003A	Yes	SV4-RNS-PLW-403 (Reference 25)	SV4-1020-P2-002 (Reference 5)
RCS Pressure Boundary Thermal Relief Check Valve	RNS-PL-V003B	Yes	SV4-RNS-PLW-423 (Reference 26)	SV4-1020-P2-002 (Reference 5)
RNS Discharge Motor-operated Containment Isolation Valve	RNS-PL-V011	Yes	SV4-RNS-PLW-17D (Reference 9)	SV4-1020-P2-002 (Reference 5)
RNS Discharge Containment Isolation Test Connection	RNS-PL-V012	Yes	SV4-RNS-PLW-17D (Reference 9)	SV4-1020-P2-002 (Reference 5)
RNS Discharge Header Containment Isolation Check Valve	RNS-PL-V013	Yes	SV4-RNS-PLW-181 (Reference 21)	SV4-1030-P2-001 (Reference 6)
RNS Discharge RCS Pressure Boundary Check Valve	RNS-PL-V015A	Yes	SV4-RNS-PLW-184 (Reference 22)	SV4-1020-P2-001 (Reference 4)
RNS Discharge RCS Pressure Boundary Check Valve	RNS-PL-V015B	Yes	SV4-RNS-PLW-192 (Reference 24)	SV4-1020-P2-001 (Reference 4)

Equipment Name*	Tag No.*	Seismic Cat. I*	Isometric Drawing	General Arrangement Plan
RNS Discharge RCS Pressure Boundary Check Valve	RNS-PL-V017A	Yes	SV4-RNS-PLW-184 (Reference 22)	SV4-1020-P2-001 (Reference 4)
RNS Discharge RCS Pressure Boundary Check Valve	RNS-PL-V017B	Yes	SV4-RNS-PLW-192 (Reference 24)	SV4-1020-P2-001 (Reference 4)
RNS Hot Leg Suction Pressure Relief Valve	RNS-PL-V021	Yes	SV4-RNS-PLW-024 (Reference 12)	SV4-1020-P2-002 (Reference 5)
RNS Suction Header Motor-operated Containment Isolation Valve	RNS-PL-V022	Yes	SV4-RNS-PLW-093 (Reference 13)	SV4-1020-P2-002 (Reference 5)
RNS Suction from IRWST Motor-operated Isolation Valve	RNS-PL-V023	Yes	SV4-RNS-PLW-016 (Reference 8)	SV4-1020-P2-002 (Reference 5)
RNS Discharge to IRWST Motor-operated Isolation Valve	RNS-PL-V024	Yes	SV4-RNS-PLW-186 (Reference 23)	SV4-1020-P2-001 (Reference 4)
RNS Pump Discharge Relief	RNS-PL-V045	Yes	SV4-RNS-PLW-17U (Reference 10)	SV4-1020-P2-002 (Reference 5)
RNS Suction from Cask Loading Pit Motor-operated Isolation Valve	RNS-PL-V055	Yes	SV4-RNS-PLW-098 (Reference 14)	SV4-1020-P2-002 (Reference 5)
RNS Suction from Cask Loading Pit Check Valve	RNS-PL-V056	Yes	SV4-RNS-PLW-098 (Reference 14)	SV4-1020-P2-002 (Reference 5)
RNS Pump Miniflow Air-Operated Isolation Valve	RNS-PL-V057A	Yes	SV4-RNS-PLW-173 (Reference 19)	SV4-1020-P2-001 (Reference 4)
RNS Pump Miniflow Air-Operated Isolation Valve	RNS-PL-V057B	Yes	SV4-RNS-PLW-175 (Reference 20)	SV4-1020-P2-001 (Reference 4)
RNS Return from Chemical and Volume Control System (CVS) Containment Isolation Valve	RNS-PL-V061	Yes	SV4-RNS-PLW-021 (Reference 11)	SV4-1030-P2-001 (Reference 6)