

Michael J. Yox  
Regulatory Affairs Director  
Vogtle 3 & 4  
Nuclear Development

Southern Nuclear  
Operating Company, Inc.  
7825 River Road  
Waynesboro, GA 30830  
Tel: 706.848.6459



Docket No.: 52-025

**DEC 27 2016**

ND-16-2758  
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 3  
ITAAC Closure Notification on Completion of ITAAC 2.7.01.05.i [Index Number 684]

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) Item 2.7.01.05.i [Index Number 684] for verifying that the seismic Category I equipment identified in Table 2.7.1-1 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 3  
Completion of ITAAC 2.7.01.05.i [Index Number 684]

MJY/hma/amm

**To:**

**Southern Nuclear Operating Company/ Georgia Power Company**

Mr. D. A. Bost (w/o enclosures)  
Mr. M. D. Meier  
Mr. M. D. Rauckhorst (w/o enclosures)  
Mr. D. H. Jones (w/o enclosures)  
Ms. K. D. Fili  
Mr. D. L. McKinney  
Mr. D. L. Fulton  
Mr. C. E. Morrow  
Mr. M. J. Yox  
Mr. D. Woods  
Ms. A. L. Pugh  
Ms. K. M. Stacy  
Mr. A. S. Parton  
Mr. W. A. Sparkman  
Mr. J. P. Redd  
Mr. D. R. Culver  
Mr. F. H. Willis  
Ms. A. C. Chamberlain  
Document Services RTYPE: VND.LI.L06  
File AR.01.02.06

**cc:**

**Nuclear Regulatory Commission**

Mr. W. Jones (w/o enclosures)  
Ms. J. M. Heisserer  
Mr. C. P. Patel  
Mr. M. E. Ernstes  
Mr. G. J. Khouri  
Mr. J. D. Fuller  
Mr. T. E. Chandler  
Ms. S. E. Temple  
Ms. P. Braxton  
Mr. T. C. Brimfield  
Mr. A. J. Lerch  
Mr. C. J. Even  
Ms. V. L. Ordaz

**Oglethorpe Power Corporation**

Mr. K. T. Haynes  
Mr. R. B. Brinkman

**Municipal Electric Authority of Georgia**

Mr. J. E. Fuller  
Mr. S. M. Jackson

**Dalton Utilities**

Mr. T. Bundros

**WECTEC**

Mr. C. A. Castell

**Westinghouse Electric Company, LLC**

Mr. R. Easterling (w/o enclosures)

Mr. G. Koucheravy (w/o enclosures)

Mr. F. Gill

Ms. L. Iller

Mr. J. Hopkins

Mr. D. Hawkins

Mr. C. F. Landon

Mr. M. Y. Shaqqo

Ms. S. DiTommaso

Mr. A. F. Dohse

**Other**

Mr. J. E. Hesler, *Bechtel Power Corporation*

Ms. L. Matis, *Tetra Tech NUS, Inc.*

Dr. W. R. Jacobs, Jr., Ph.D., *GDS Associates, Inc.*

Mr. S. Roetger, *Georgia Public Service Commission*

Ms. S. W. Kernizan, *Georgia Public Service Commission*

Mr. K. C. Greene, *Troutman Sanders*

Mr. S. Blanton, *Balch Bingham*

**Southern Nuclear Operating Company  
ND-16-2758  
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 3  
Completion of ITAAC 2.7.01.05.i [Index Number 684]**

### **ITAAC Statement**

#### **Design Commitment:**

5. The seismic Category I equipment identified in Table 2.7.1-1 can withstand seismic design basis loads without loss of its safety function.

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

- i) Inspection will be performed to verify that the seismic Category I equipment and valves identified in Table 2.7.1-1 are located on the Nuclear Island.

#### **Acceptance Criteria:**

- i) The seismic Category I equipment identified in Table 2.7.1-1 is located on the Nuclear Island.

### **ITAAC Determination Basis**

Multiple ITAAC are performed to demonstrate that the equipment identified in VEGP Unit 3 Combined License (COL) Appendix C, Table 2.7.1-1 can withstand seismic design basis loads without loss of safety function.

This ITAAC requires an inspection be performed to verify that the Nonradioactive Ventilation System (VBS), Potable Water System (PWS), Sanitary Drainage System (SDS) and Waste Water System (WWS) equipment (valves) identified in Table 2.7.1-1 (Attachment A) are located on the Nuclear Island, which is a Seismic Category I structure. Subsequent ITAAC 2.7.01.05.ii (Index Number 685) verify that the equipment is seismically qualified and ITAAC 2.7.01.05.iii (Index Number 686) 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 6-12) 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 Elevation 117'-6", 100'-0" & 107'-2" and 135'-3" per SV3-1040-P2-001 (Reference 3), SV3-1030-P2-001 (Reference 4) and SV3-1050-P2-001 (Reference 5), 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 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 2.7.1-1 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 3 ITAAC Completion Package for ITAAC 2.7.01.05.i (Reference 2) and available for NRC inspection.

### **ITAAC Completion Statement**

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.7.01.05.i, [Index Number 684] 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. SV3-VBS-ITR-001, Revision 0, "Inspection Report Confirming VBS Equipment is Located on the Nuclear Island, ITAAC 2.7.01.05.i"
2. SVP\_SV0\_004564, Attachment 1, "Submittal of Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Completion Package for Unit 3 ITAAC 2.7.01.05.i [Index Number 684] (VBS System Seismic Category I Equipment Location)"
3. SV3-1040-P2-001 Revision 0, "Nuclear Island General Arrangement Plan At El. 117'-6"
4. SV3-1030-P2-001 Revision 1, "Nuclear Island General Arrangement Plan At El. 100'-0" & 107'-2"
5. SV3-1050-P2-001 Revision 0, "Nuclear Island General Arrangement Operating Deck El. 135'-3"
6. SV3-VBS-PLW-030 Revision 4, "Nonradioactive Ventilation System Auxiliary Bldg Room 12401 Ventilation to MCR"
7. SV3-VBS-PLW-010 Revision 2, "Nonradioactive Ventilation System Auxiliary Building Room 12401 Ventilation From MCR"
8. SV3-VBS-PLW-020 Revision 2, "Nonradioactive Ventilation System Auxiliary Building Room 12401 Ventilation From MCR Toilet Exhaust"
9. SV3-PWS-PLW-931 Revision 1, "Potable Water System Auxiliary Building Room 12501 Supply From MCR Potable Water Tank"

10. SV3-PWS-PLW-581 Revision 2, "Potable Water System Auxiliary Building Room 12401 MT06 to MCR Kitchen and Toilet Area"
11. SV3-SDS-PLW-102 Revision 2, "Sanitary Drainage System Auxiliary Building Room 12401 Sanitary Drainage Vent Line"
12. SV3-WWS-PLW-332 Revision 2, "Waste Water System Aux Bldg Rm 12311/12301/12302/12303 Floor Drains El. 117'-6" (Embedded)"

**Attachment A**

**SYSTEM: Nonradioactive Ventilation System (VBS), Potable Water System (PWS), Sanitary Drainage System (SDS) and Waste Water System (WWS)**

Excerpt from COL Appendix C Table 2.7.1-1\*

<b>Equipment Name*</b>	<b>Tag No.*</b>	<b>Seismic Cat. I*</b>	<b>Isometric Drawing</b>	<b>General Arrangement Plan</b>
MCR Supply Air Isolation Valve	VBS-PL-V186	Yes	SV3-VBS-PLW-030 (Reference 6)	SV3-1040-P2-001 (Reference 3)
MCR Supply Air Isolation Valve	VBS-PL-V187	Yes	SV3-VBS-PLW-030 (Reference 6)	SV3-1040-P2-001 (Reference 3)
MCR Return Air Isolation Valve	VBS-PL-V188	Yes	SV3-VBS-PLW-010 (Reference 7)	SV3-1040-P2-001 (Reference 3)
MCR Return Air Isolation Valve	VBS-PL-V189	Yes	SV3-VBS-PLW-010 (Reference 7)	SV3-1040-P2-001 (Reference 3)
MCR Exhaust Air Isolation Valve	VBS-PL-V190	Yes	SV3-VBS-PLW-020 (Reference 8)	SV3-1040-P2-001 (Reference 3)
MCR Exhaust Air Isolation Valve	VBS-PL-V191	Yes	SV3-VBS-PLW-020 (Reference 8)	SV3-1040-P2-001 (Reference 3)
PWS MCR Isolation Valve	PWS-PL-V418	Yes	SV3-PWS-PLW-931 (Reference 9)	SV3-1050-P2-001 (Reference 5)
PWS MCR Isolation Valve	PWS-PL-V420	Yes	SV3-PWS-PLW-581 (Reference 10)	SV3-1040-P2-001 (Reference 3)
PWS MCR Vacuum Valve	PWS-PL-V498	Yes	SV3-PWS-PLW-581 (Reference 10)	SV3-1040-P2-001 (Reference 3)
MCR SDS (Vent) Isolation Valve	SDS-PL-V001	Yes	SV3-SDS-PLW-102 (Reference 11)	SV3-1040-P2-001 (Reference 3)
MCR SDS (Vent) Isolation Valve	SDS-PL-V002	Yes	SV3-SDS-PLW-102 (Reference 11)	SV3-1040-P2-001 (Reference 3)
MCR WWS Isolation Valve	WWS-PL-V506	Yes	SV3-WWS-PLW-332 (Reference 12)	SV3-1030-P2-001 (Reference 4)