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Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 3
ITAAC Closure Notification on Completion of ITAAC 2.2.01.07.ii [Index Number 108]

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 3 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.2.01.07.ii [Index Number 108], for verifying that remotely operated containment isolation valves close within the required response times. 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 is 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 Kelli Roberts at 706-848-6991.

Respectfully submitted,


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Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 3
ITAAC Closure Notification on Completion of ITAAC 2.2.01.07.ii
[Index Number 108]

MJY/TJC/sfr

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**Southern Nuclear Operating Company
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Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 3
ITAAC Closure Notification on Completion of ITAAC 2.2.01.07.ii [Index Number 108]**

ITAAC Statement

Design Commitment

7. The CNS provides the safety-related function of containment isolation for containment boundary integrity and provides a barrier against the release of fission products to the atmosphere.

Inspections/Tests/Analyses

ii) Testing will be performed to demonstrate that remotely operated containment isolation valves close within the required response times.

Acceptance Criteria

ii) The containment purge isolation valves (VFS-PL-V003, -V004, -V009, and -V010) close within 10 seconds, containment vacuum relief isolation valves (VFS-PL-V800A and -V800B) close within 30 seconds, SGS valves SGS-PL-V040A/B and SGS-PL-V057A/B are covered in subsection 2.2.4, Table 2.2.4-4 (item 11.b.ii) and all other containment isolation valves close within 60 seconds upon receipt of an actuation signal.

ITAAC Determination Basis

Multiple ITAAC were performed to verify by tests that the Containment System (CNS) provides the safety-related function of containment isolation for containment boundary integrity and provides a barrier against the release of fission products to the atmosphere. Testing was performed to demonstrate that remotely operated containment isolation valves close within the required response times. The containment purge isolation valves (VFS-PL-V003, -V004, -V009, and -V010) close within 10 seconds, containment vacuum relief isolation valves (VFS-PL-V800A and -V800B) close within 30 seconds, steam generator system valves SGS-PL-V040A/B and SGS-PL-V057A/B are covered in the Combined License (COL) Appendix C (Reference 1) subsection 2.2.4, Table 2.2.4-4 (item 11.b.ii) included in consolidated ITAAC Index 250 and all other containment isolation valves close within 60 seconds upon receipt of an actuation signal. The VEGP Unit 3&4 Updated Final Safety Analysis Report (UFSAR) (Reference 2) Table 6.2.3-1 identifies all remotely operated containment isolation valves.

Testing was performed in accordance with Unit 3 component test packages listed in References 3 through 13 to verify Containment isolation valve closure times.

Work orders listed in References 3 through 13 establish initial conditions with each Containment isolation valve in the open position. An actuation signal was generated by Protection and Safety Monitoring System (PMS) using the PMS Maintenance and Test Panel (MTP) to close each Containment isolation valve. Each Containment isolation valve closure is timed from the time the closed demand signal is generated until the valve is fully closed. The Containment isolation valve is verified locally closed by a person located at the valve.

The completed Unit 3 component test results (References 3 through 13) confirm the containment purge isolation valves (VFS-PL-V003, -V004, -V009, and -V010) close within 10 seconds, containment vacuum relief isolation valves (VFS-PL-V800A and -V800B) close within 30 seconds, SGS valves SGS-PL-V040A/B and SGS-PL-V057A/B are covered in COL Appendix C subsection 2.2.4, Table 2.2.4-4 (item 11.b.ii) and all other containment isolation valves close within 60 seconds upon receipt of an actuation signal as shown in Attachment A. Attachment A was generated to document the remotely operated containment isolation valves and the information contained in Attachment A was obtained from the VEGP Unit 3&4 Updated Final Safety Analysis Report (UFSAR) Table 6.2.3-1 and COL Appendix C.

References 3 through 13 are available for NRC inspection as part of ITAAC 2.2.01.07.ii Unit 3 Completion Package (Reference 14).

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company (SNC) performed a review of all findings pertaining to the subject ITAAC and associated corrective actions. This review found there are no relevant ITAAC findings associated with this ITAAC. The ITAAC completion review is documented in the ITAAC Completion Package for ITAAC 2.2.01.07.ii (Reference 14) and is available for NRC review.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.2.01.07.ii was performed for VEGP Unit 3 and that the prescribed acceptance criteria were 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. Combined License Vogtle Electric Generating Plant Unit 3 Appendix C Amendment 186
2. VEGP 3&4 UFSAR Rev. 10 Table 6.2.3-1
3. SV3-CNS-ITR-800108, Rev. 0, "Unit 3 Compilation of CAS Containment Isolation Valve Testing: ITAAC 2.2.01.07.ii NRC Index Number 108"
4. SV3-CNS-ITR-801108, Rev. 0, "Unit 3 Compilation of CCS Containment Isolation Valve Testing: ITAAC 2.2.01.07.ii NRC Index Number 108"
5. SV3-CNS-ITR-802108, Rev. 1, "Unit 3 Compilation of CVS Containment Isolation Valve Testing: ITAAC 2.2.01.07.ii NRC Index Number 108"
6. SV3-CNS-ITR-803108, Rev. 0, "Unit 3 Compilation of PSS Containment Isolation Valve Testing: ITAAC 2.2.01.07.ii NRC Index Number 108"
7. SV3-CNS-ITR-804108, Rev. 0, "Unit 3 Compilation of PXS Containment Isolation Valve Testing: ITAAC 2.2.01.07.ii NRC Index Number 108"
8. SV3-CNS-ITR-805108, Rev. 0, "Unit 3 Compilation of RNS Containment Isolation Valve Testing: ITAAC 2.2.01.07.ii NRC Index Number 108"
9. SV3-CNS-ITR-806108, Rev. 0, "Unit 3 Compilation of SFS Containment Isolation Valve Testing: ITAAC 2.2.01.07.ii NRC Index Number 108"
10. SV3-CNS-ITR-807108, Rev. 0, "Unit 3 Compilation of SGS Containment Isolation Valve Testing: ITAAC 2.2.01.07.ii NRC Index Number 108"
11. SV3-CNS-ITR-808108, Rev. 0, "Unit 3 Compilation of VFS Containment Isolation Valve Testing: ITAAC 2.2.01.07.ii NRC Index Number 108"
12. SV3-CNS-ITR-809108, Rev. 0, "Unit 3 Compilation of VWS Containment Isolation Valve Testing: ITAAC 2.2.01.07.ii NRC Index Number 108"
13. SV3-CNS-ITR-810108, Rev. 0, "Unit 3 Compilation of WLS Containment Isolation Valve Testing: ITAAC 2.2.01.07.ii NRC Index Number 108"
14. 2.2.01.07.ii-U3-CP-Rev0, ITAAC Completion Package

Attachment A

Equipment Name⁽¹⁾	Tag No.⁽²⁾	Required Valve Closure Time⁽³⁾ (seconds)	Actual Valve Closure Time (seconds)	Test Procedure
Instrument Air Supply Outside Containment Isolation Valve	CAS-PL-V014	≤ 60 ⁽¹⁾	1	CAS-OTS-10-001 B-GEN-ITPCI-039-F003
Component Cooling Water System (CCS) Containment Isolation Motor-operated Valve (MOV) – Inlet Line Outside Reactor Containment (ORC)	CCS-PL-V200	≤ 60 ⁽¹⁾	32	B-GEN-ITPCI-039-F004
CCS Containment Isolation MOV – Outlet Line IRC	CCS-PL-V207	≤ 60 ⁽¹⁾	31	B-GEN-ITPCI-039-F005
CCS Containment Isolation MOV – Outlet Line ORC	CCS-PL-V208	≤ 60 ⁽¹⁾	32	B-GEN-ITPCI-039-F006
CVS Letdown Containment Isolation Valve	CVS-PL-V045	≤ 60 ⁽¹⁾	23	B-GEN-ITPCI-039-F010
CVS Letdown Containment Isolation Valve	CVS-PL-V047	≤ 60 ⁽¹⁾	13	B-GEN-ITPCI-039-F011
CVS Makeup Line Containment Isolation Motor-operated Valve	CVS-PL-V090	≤ 60 ⁽¹⁾ (≤ 30) ⁽²⁾	14	B-GEN-ITPCI-039-F013
CVS Makeup Line Containment Isolation Motor-operated Valve	CVS-PL-V091	≤ 60 ⁽¹⁾ (≤ 30) ⁽²⁾	13	B-GEN-ITPCI-039-F014
CVS Zinc Injection Containment Isolation Valve ORC	CVS-PL-V092	≤ 60 ⁽¹⁾	4	GEN-OTS-10-004 B-GEN-ITPCI-039-F015
CVS Zinc Injection Containment Isolation Valve IRC	CVS-PL-V094	≤ 60 ⁽¹⁾	6	GEN-OTS-10-001 B-GEN-ITPCI-039-F016
CVS Hydrogen Injection Containment Isolation Valve ORC	CVS-PL-V219	≤ 60 ⁽¹⁾	8	GEN-OTS-10-004 B-GEN-ITPCI-039-F019
Containment Air Sample Containment Isolation Valve Inside Reactor Containment (IRC)	PSS-PL-V008	≤ 60 ⁽¹⁾	< 1	B-GEN-ITPCI-039-F061
Liquid Sample Line Containment Isolation Valve IRC	PSS-PL-V010A	≤ 60 ⁽¹⁾	1	B-GEN-ITPCI-039-F062
Liquid Sample Line Containment Isolation Valve IRC	PSS-PL-V010B	≤ 60 ⁽¹⁾	< 1	B-GEN-ITPCI-039-F063

Attachment A (cont.)

Equipment Name⁽¹⁾	Tag No.⁽²⁾	Required Valve Closure Time⁽³⁾ (seconds)	Actual Valve Closure Time (seconds)	Test Procedure
Liquid Sample Line Containment Isolation Valve Outside Reactor Containment (ORC)	PSS-PL-V011A	≤ 60 ⁽¹⁾	7	B-GEN-ITPCI-039-F064
Liquid Sample Line Containment Isolation Valve ORC	PSS-PL-V011B	≤ 60 ⁽¹⁾	6	B-GEN-ITPCI-039-F065
Sample Return Line Containment Isolation Valve ORC	PSS-PL-V023	≤ 60 ⁽¹⁾	3	B-GEN-ITPCI-039-F066
Sample Return Containment Isolation Valve IRC	PSS-PL-V024	≤ 60 ⁽¹⁾	< 1	B-GEN-ITPCI-039-F067
Air Sample Line Containment Isolation Valve ORC	PSS-PL-V046	≤ 60 ⁽¹⁾	5	B-GEN-ITPCI-039-F068
Nitrogen Supply Containment Isolation Valve	PXS-PL-V042	≤ 60 ⁽¹⁾	4	GEN-OTS-10-004 B-GEN-ITPCI-039-F077
RCS Outer Hot Leg Suction Motor-operated Isolation Valve	RNS-PL-V002A	≤ 60 ⁽¹⁾	29	B-GEN-ITPCI-039-F171
RCS Outer Hot Leg Suction Motor-operated Isolation Valve	RNS-PL-V002B	≤ 60 ⁽¹⁾	30	B-GEN-ITPCI-039-F172
RNS Discharge Motor-operated Containment Isolation Valve	RNS-PL-V011	≤ 60 ⁽¹⁾	29	B-GEN-ITPCI-039-F173
RNS Suction Header Motor-operated Containment Isolation Valve	RNS-PL-V022	≤ 60 ⁽¹⁾	24	B-GEN-ITPCI-039-F174
RNS Suction from IRWST Motor-operated Isolation Valve	RNS-PL-V023	≤ 60 ⁽¹⁾	29	B-GEN-ITPCI-039-F175
RNS Return from Chemical and Volume Control System (CVS) Containment Isolation Valve	RNS-PL-V061	≤ 60 ⁽¹⁾	4	GEN-OTS-10-002 B-GEN-ITPCI-039-F176
SFS Suction Line Containment Isolation MOV – IRC	SFS-PL-V034	≤ 60 ⁽¹⁾	17	B-GEN-ITPCI-039-F179
SFS Suction Line Containment Isolation MOV – ORC	SFS-PL-V035	≤ 60 ⁽¹⁾	17	B-GEN-ITPCI-039-F180

Attachment A (cont.)

Equipment Name⁽¹⁾	Tag No.⁽²⁾	Required Valve Closure Time⁽³⁾ (seconds)	Actual Valve Closure Time (seconds)	Test Procedure
SFS Discharge Line Containment Isolation MOV – ORC	SFS-PL-V038	≤ 60 ⁽¹⁾	14	B-GEN-ITPCI-039-F181
Power-operated Relief Valve Block Motor-operated Valve Steam Generator 01	SGS-PL-V027A	< 44 ⁽¹⁾	20	B-GEN-ITPCI-039-F182
Power-operated Relief Valve Block Motor-operated Valve Steam Generator 02	SGS-PL-V027B	< 44 ⁽¹⁾	22	B-GEN-ITPCI-039-F183
Steam Line Condensate Drain Isolation Valve	SGS-PL-V036A	≤ 60 ⁽¹⁾	4	B-GEN-ITPCI-039-F184
Steam Line Condensate Drain Isolation Valve	SGS-PL-V036B	≤ 60 ⁽¹⁾	5	B-GEN-ITPCI-039-F185
Main Steam Line Isolation Valve	SGS-PL-V040A	< 5 ⁽¹⁾	4.231	B-GEN-ITPCI-039-F186-189
Main Steam Line Isolation Valve	SGS-PL-V040B	< 5 ⁽¹⁾	4.604	B-GEN-ITPCI-039-F190-193
Main Feedwater Isolation Valve	SGS-PL-V057A	< 5 ⁽¹⁾	4.357	B-GEN-ITPCI-039-F194-197
Main Feedwater Isolation Valve	SGS-PL-V057B	< 5 ⁽¹⁾	4.35	B-GEN-ITPCI-039-F198-201
Startup Feedwater Isolation Motor-operated Valve	SGS-PL-V067A	≤ 60 ⁽¹⁾	28	B-GEN-ITPCI-039-F202
Startup Feedwater Isolation Motor-operated Valve	SGS-PL-V067B	≤ 60 ⁽¹⁾	28	B-GEN-ITPCI-039-F203
Steam Generator Blowdown Isolation Valve	SGS-PL-V074A	≤ 60 ⁽¹⁾	8	B-GEN-ITPCI-039-F204
Steam Generator Blowdown Isolation Valve	SGS-PL-V074B	≤ 60 ⁽¹⁾	7	B-GEN-ITPCI-039-F205
Main Steam Isolation Valve Bypass Isolation	SGS-PL-V240A	≤ 60 ⁽¹⁾	7	B-GEN-ITPCI-039-F212-213

Attachment A (cont.)

Equipment Name⁽¹⁾	Tag No.⁽²⁾	Required Valve Closure Time⁽³⁾ (seconds)	Actual Valve Closure Time (seconds)	Test Procedure
Main Steam Isolation Valve Bypass Isolation	SGS-PL-V240B	≤ 60 ⁽¹⁾	6	B-GEN-ITPCI-039-F214-215
Containment Purge Inlet Containment Isolation Valve – ORC	VFS-PL-V003	≤ 10 ⁽¹⁾	2	B-GEN-ITPCI-039-F234
Containment Purge Inlet Containment Isolation Valve – IRC	VFS-PL-V004	≤ 10 ⁽¹⁾	2	B-GEN-ITPCI-039-F235
Containment Purge Discharge Containment Isolation Valve – IRC	VFS-PL-V009	≤ 10 ⁽¹⁾	3	B-GEN-ITPCI-039-F236
Containment Purge Discharge Containment Isolation Valve – ORC	VFS-PL-V010	≤ 10 ⁽¹⁾	2	B-GEN-ITPCI-039-F237
Vacuum Relief Containment Isolation A MOV – ORC	VFS-PL-V800A	≤ 30 ⁽¹⁾	18	B-GEN-ITPCI-039-F238
Vacuum Relief Containment Isolation B MOV – ORC	VFS-PL-V800B	≤ 30 ⁽¹⁾	19	B-GEN-ITPCI-039-F239
Fan Coolers Supply Containment Isolation Valve – ORC	VWS-PL-V058	≤ 60 ⁽¹⁾	2	B-GEN-ITPCI-039-F240
Fan Coolers Return Containment Isolation Valve – IRC	VWS-PL-V082	≤ 60 ⁽¹⁾	2	B-GEN-ITPCI-039-F241
Fan Coolers Return Containment Isolation Valve – ORC	VWS-PL-V086	≤ 60 ⁽¹⁾	2	B-GEN-ITPCI-039-F242
Sump Discharge Containment Isolation Valve – IRC	WLS-PL-V055	≤ 60 ⁽¹⁾	2	B-GEN-ITPCI-039-F243
Sump Discharge Containment Isolation Valve – ORC	WLS-PL-V057	≤ 60 ⁽¹⁾	2	B-GEN-ITPCI-039-F244
Reactor Coolant Drain Tank (RCDT) Gas Outlet Containment Isolation Valve – IRC	WLS-PL-V067	≤ 60 ⁽¹⁾	7	B-GEN-ITPCI-039-F245
RCDT Gas Outlet Containment Isolation Valve – ORC	WLS-PL-V068	≤ 60 ⁽¹⁾	10	B-GEN-ITPCI-039-F246

⁽¹⁾ From U3 COL Appendix C.

⁽²⁾ From VEGP Unit 3 and 4 Updated Final Safety Analysis Report (UFSAR) Table 6.2.3-1.

⁽³⁾ Required Valve Closure time will be the minimum value listed.