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SOUTHERN NUCLEAR
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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 2.5.01.03h [Index Number 518]

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 2.5.01.03h [Index Number 518] for verifying that a report exists and concludes the Diverse Actuation System (DAS) equipment can withstand the room ambient temperature and humidity conditions that will exist at the plant locations in which the DAS equipment is installed at the times for which the DAS is designed to be operational. 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 2.5.01.03h [Index Number 518]

MJY/jyk/amm

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Southern Nuclear Operating Company
ND-16-2269
Enclosure

Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.5.01.03h [Index Number 518]

ITAAC Statement

Design Commitment:

3.h) The DAS equipment can withstand the room ambient temperature and humidity conditions that will exist at the plant locations in which the DAS equipment is installed at the times for which the DAS is designed to be operational.

Inspections,Tests, Analysis:

Type tests, analyses, or a combination of type tests and analyses will be performed on the equipment.

Acceptance Criteria:

A report exists and concludes that the DAS equipment can withstand the room ambient temperature and humidity conditions that will exist at the plant locations in which the DAS equipment is installed at the times for which the DAS is designed to be operational.

ITAAC Determination Basis

Environmental qualification of the non-safety related Diverse Actuation System (DAS) was performed by a combination type tests and analyses to demonstrate that the DAS equipment can withstand the room ambient temperature and humidity conditions that exist where the DAS equipment is located in the plant. As discussed in Vogtle Electric Generating Plant (VEGP) Combined License (COL) Appendix C, Section 2.5.1, the component locations of the DAS are as shown in VEGP COL Appendix C Table 2.5.1-5 (Attachment A). The non-safety related DAS equipment is located in a controlled environment in the auxiliary building and performs no safety function, but is capable of functioning during and after normal and abnormal events.

Type testing and analysis was performed in accordance with the methodology in APP-GW-G1-002, AP1000 Plant Equipment Qualification Methodology (Reference 1), and per the applicable guidance of Regulatory Guide 1.89, "Environmental Qualification of Certain Electric Equipment Important to Safety for Nuclear Power Plants" (Reference 2). APP-DAS-VBR-002, the DAS Equipment Qualification Summary Report (EQSR) (Reference 3), and APP-DAS-VBR-003, the DAS Equipment Qualification Data Package (EQDP) (Reference 4) discuss the equipment that were tested and analyzed, qualification requirements based on conditions that exist where the DAS equipment is located, qualification type, and documents the results of each qualification type test and analysis.

An inspection of the DAS EQSR (Reference 3) and DAS EQDP (Reference 4) confirmed that the DAS can withstand required room ambient temperature and humidity conditions that will exist at the plant locations in which the DAS equipment is installed at the times for which the DAS is designed to be operational.

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 2.5.01.03h (Reference 5) and available for NRC inspection.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.5.01.03h 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. APP-GW-G1-002 Revision 4, AP1000 Plant Equipment Qualification Methodology

2. Regulatory Guide 1.89, Environmental Qualification of Certain Electric Equipment Important to Safety for Nuclear Power Plants

3. APP-DAS-VBR-002 Revision 4, Equipment Qualification Summary Report for the Diverse Actuation System for Use in the AP1000 Plant

4. APP-DAS-VBR-003 Revision 3, Equipment Qualification Data Package for the Diverse Actuation System for Use in the AP1000 Plant

5. SVP_SV0_004212, Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 2.5.01.03h [COL Index Number 518] (DAS Environmental Testing)

Attachment A
Excerpt from VEGP Unit 4 COL Appendix C Table 2.5.1-5
SYSTEM: DIVERSE ACTUATION SYSTEM (DAS)

Component Name	Tag No.	Component Location
DAS Processor Cabinet 1	DAS-JD-001	Auxiliary Building
DAS Processor Cabinet 2	DAS-JD-002	Auxiliary Building
DAS Squib Valve Control Cabinet	DAS-JD-003	Auxiliary Building