Southern Nuclear

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U.S. Nuclear Regulatory Commission
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Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 4
ITAAC Closure Notification on Completion of ITAAC 2.6.05.03.i [Index Number 630]

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 2.6.05.03.i [Index Number 630] for verifying that an inspection was performed and concludes that the lighting fixtures located in the Main Control Room (MCR) 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 Kelli Roberts at 706-848-6991.

Respectfully submitted,

Jamie Coleman

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Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.6.05.03.i [Index Number 630]

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Southern Nuclear Operating Company
ND-22-0605
Enclosure

Vogtle Electric Generating Plant (VEGP) Unit 4
ITAAC Closure Notification on Completion of ITAAC 2.6.05.03.i [Index Number 630]

ITAAC Statement

Design Commitment

3. The lighting fixtures located in the MCR utilize seismic supports.

Inspections/Tests/Analyses

i) Inspection will be performed to verify that the lighting fixtures located in the MCR are located on the Nuclear Island.

ii) Analysis of seismic supports will be performed.

Acceptance Criteria

i) The lighting fixtures located in the MCR are located on the Nuclear Island.

ii) A report exists and concludes that the seismic supports can withstand seismic design basis loads.

ITAAC Determination Basis

Following installation of the Main Control Room (MCR) lighting fixtures, an inspection was performed to verify the lighting fixtures were located on the Nuclear Island. Additionally, an analysis of the lighting fixture supports was performed, and a report exists that concludes the lighting fixture seismic supports can withstand seismic design basis loads.

The inspection of the MCR lighting fixtures is performed in accordance with Functional Arrangement Scoping Process procedure ND-RA-001-012 (Reference 1) to confirm the lighting fixtures are located on the Nuclear Island. Detailed design drawings identified in SV4-ELS-ITR-800630 (Reference 2) are used to confirm the MCR lighting fixtures are installed in accordance with the design requirements. The inspection includes verification that each lighting fixture is installed in the correct location and the mounting of the fixture complies with the seismic design details. The result of the inspection is documented in a report for Unit 4 (Reference 2). The report concludes the lighting fixtures are located on the Nuclear Island.

An analysis of the lighting fixture seismic supports was performed to confirm the supports can withstand seismic design basis loads. The MCR lighting fixture supports were designed as Seismic Category I Equipment. The supports consist of steel unistrut channels welded to the ceiling of the MCR and steel chains that attach the light fixture to the unistrut channels. The seismic loading conditions are established using the AP1000 seismic floor response spectra and the equivalent static load method of analysis described in the Vogtle 3&4 Updated Final Safety Analysis Report (UFSAR) (Reference 3). Lateral loads acting on the support chains are considered negligible based on guidance from the American Society of Civil Engineers (ASCE) Standard 7-05 (Reference 4). Structural integrity is demonstrated by calculating and concluding the maximum seismic loads are less than or equal to the applicable design code allowable limits. The results of the analysis are documented in APP-SH25-S3C-002 (Reference 5) and conclude that the lighting fixture seismic supports can withstand seismic design basis loads.

ITAAC Findings 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 reviews are documented in the ITAAC Completion Package for ITAAC 2.6.05.03.i (Reference 6) and are available for NRC review.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.6.05.03.i was performed for Vogtle 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. ND-RA-001-012, Rev. 6, "Functional Arrangement Scoping Process"
2. SV4-ELS-ITR-800630, Rev. 0, "Unit 4 MCR Lighting Inspection Report"
3. Vogtle 3&4 UFSAR, Rev. 11, Subsection 3.7.3.5
4. ASCE 7-05, American Society of Civil Engineers, "Minimum Design Loads for Buildings and Other Structures".
5. APP-SH25-S3C-002, Rev. 3, "AP1000 Seismic Category 1 Standard Conduit Supports"
6. 2.6.05.03.i-U4-CP-Rev0, ITAAC Completion Package