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SOUTHERN NUCLEAR
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Docket No.: 52-025

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U.S. Nuclear Regulatory Commission
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Washington, DC 20555-0001

Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 3
ITAAC Closure Notification on Completion of ITAAC 2.6.05.03.ii [Index Number 631]

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 2.6.05.03.ii [Index Number 631] for verifying normal and emergency lighting supports within the Main Control Room can withstand seismic design basis loads. 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

MJY/KJD/amm

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 3
Completion of ITAAC 2.6.05.03.ii [Index Number 631]

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Southern Nuclear Operating Company
ND-16-2276
Enclosure

Vogtle Electric Generating Plant (VEGP) Unit 3
Completion of ITAAC 2.6.05.03.ii [Index Number 631]

ITAAC Statement

Design Commitment:

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

Inspections, Tests, Analyses:

ii) Analysis of seismic supports will be performed.

Acceptance Criteria:

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

ITAAC Determination Basis

Multiple Inspections, Tests, and Analyses (ITAAC) are performed to verify the lighting fixtures located in the Main Control Room (MCR) utilize seismic supports. The subject ITAAC requires an analysis that concludes that the seismic supports can withstand seismic design basis loads.

The MCR lighting fixture supports are 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 channel. The seismic loading conditions were 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 1). Lateral loads acting on the support chains were considered negligible based on guidance from the American Society of Civil Engineers (ASCE) Standard 7-05 (Reference 2). Structural integrity was demonstrated by showing the maximum seismic loads are less than or equal to the applicable design code allowable limits.

The results were documented in References 3 and 4 and show that the maximum seismic loads are less than the design code allowable limits. The structural analysis reports for the Main Control Room lighting fixture supports exist and conclude the supports can withstand seismic design basis loads, which meets the ITAAC acceptance criteria.

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 2.6.05.03.ii (Reference 5) and available for NRC inspection.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.6.05.03.ii was performed for VEGP 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. Vogtle 3&4 UFSAR, Section 3.7.3.5

2. ASCE 7-05, "Minimum Design Loads for Buildings and Other Structures, American Society of Civil Engineers"

3. APP-SH25-S3C-002, Rev. 3, "AP1000 Seismic Category I Standard Conduit Support"

4. APP-SH25-GEF-850007, Rev. 0, "Seismic Cat I MCR Lighting Fixture Support Detail B Calculation"

5. SVP_SV0_004273, Attachment 1, "Submittal of Inspections, Tests, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 3 ITAAC 2.6.05.03.ii [COL Index Number 631] (MCR Lighting Supports can withstand Design Basis Seismic Loads)"