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Docket No.: 52-026

ND-20-0808
10 CFR 52.99(c)(1)U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555-0001Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 4
ITAAC Closure Notification on Completion of Item 2.3.05.03a.ii [Index Number 344]

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 2.3.05.03a.ii [Index Number 344]. This ITAAC verified that the polar crane was static-load tested to 125% of the rated load; and lift tested with a load that is 100% of the rated load, to demonstrate it lowers, stops, and holds the test load. The closure process for this ITAAC is based on the guidance described in NEI 08-01 (Reference 1), "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 Tom Petrak at 706-848-1575.

Respectfully submitted,


Michael J. Yox
Regulatory Affairs Director Vogtle 3 & 4Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.3.05.03a.ii [Index Number 344]

MJY/TST/sfr

U.S. Nuclear Regulatory Commission

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**Southern Nuclear Operating Company
ND-20-0808
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.3.05.03a.ii [Index Number 344]**

ITAAC Statement

Design Commitment

3.a) The polar crane is single failure proof.

Inspections/Tests/Analyses

ii) Testing of the polar crane is performed.

iii) Testing of the polar crane is performed.

Acceptance Criteria

ii) The polar crane shall be static-load tested to 125% of the rated load.

iii) The polar crane shall lift a test load that is 100% of the rated load. Then it shall lower, stop, and hold the test load.

ITAAC Determination Basis

Multiple ITAAC are performed to verify that the polar crane is single failure proof. This ITAAC performed: static load testing to verify the polar crane main and auxiliary hoists can support 125% of the rated load; and a lift test of a load that is 100% of the polar crane main and auxiliary hoist's rated load, including lowering, stopping and holding the test load.

ii) The polar crane shall be static load tested to 125% of the rated load.

The polar crane main hoist 125% static load test was performed in accordance with SV4-MH01-VTP-002, "Domestic AP1000 Polar Crane Site Acceptance Test" (Reference 2) with results recorded in SV4-MHS-ITR-800344, "Unit 4 Recorded Results of Polar Crane Load Tests" (Reference 3) with a load equal to 125% (+5%/-0%) of the polar crane main hoist rated load. This testing was performed as required by NUREG-0554 Section 8.2 (Reference 4) in accordance with ASME NOG-1 (Reference 5). The main hoist was tested and visually observed to exhibit no drift downward after stopping and holding the test load. The load was successfully supported under these conditions.

Similarly, the polar crane auxiliary hoist was static load tested using Reference 2 with results recorded in Reference 3 with a load equal to 125% (+5%/-0%) of the polar crane auxiliary hoist rated load. The auxiliary hoist was tested and visually observed to exhibit no drift downward after stopping and holding the test load. The load was successfully supported under these conditions.

References 2 and 3 confirm that the polar crane main and auxiliary hoist were static load tested to 125% of the polar crane main and auxiliary hoists' rated load.

iii) The polar crane shall lift a test load that is 100% of the rated load. Then it shall lower, stop, and hold the test load.

The polar crane main hoist 100% load test was performed in accordance with Reference 2 with results recorded in Reference 3 with a load equal to 100% (+5%/-0%) of the polar crane main hoist rated load. This testing was performed as required by NUREG-0554 Section 8.2 (Reference 4) in accordance with ASME NOG-1 (Reference 5). The main hoist was tested and visually observed to exhibit no drift downward after lowering, stopping and holding the test load. The load was successfully supported under these conditions.

Similarly, the polar crane auxiliary hoist was load tested using Reference 2 with results recorded in Reference 3 with a load equal to 100% (+5%/-0%) of the polar crane auxiliary hoist rated load. The auxiliary hoist was tested and visually observed to exhibit no drift downward after lowering, stopping and holding the test load. The load was successfully supported under these conditions.

References 2 and 3 confirm that the polar crane main and auxiliary hoist lifted a test load that was 100% of the polar crane main and auxiliary hoists' rated load, then lowered, stopped and held the test load.

References 2 and 3 are available for NRC inspection as part of Unit 4 ITAAC Completion Package (References 6).

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 is documented in the ITAAC Completion Package for ITAAC 2.3.05.03a.ii (Reference 6) and is available for NRC review.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.3.05.03a.ii was performed for VEGP Unit 4 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. NEI-08-01 Rev. 5 corrected 6-30-2014, *Industry Guideline for the ITAAC Closure Process under 10 CFR Part 52*
2. SV4-MH01-VTP-002, Rev. 5, "Domestic AP1000 Polar Crane Site Acceptance Test"
3. SV4-MHS-ITR-800344, Rev. 0, "Unit 4 Recorded Results of Polar Crane Load Tests"
4. NUREG-0554, "Single-Failure-Proof Cranes for Nuclear Power Plants", 1979
5. ASME NOG-1-1998, "Rules for Construction of Overhead and Gantry Cranes (Top Running Bridge, Multiple Girder)"
6. 2.3.05.03a.ii-U4-CP-Rev0, ITAAC Completion Package