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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 2.3.05.03d.i [Index Number 351]

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 2.3.05.03d.i [Index Number 351] for verifying the Material Handling System Maintenance Hatch Hoist is single failure proof. 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 Tom Petrak at 706-848-1575.

Respectfully submitted,

Michael J. Yox
Regulatory Affairs Director Vogtle 3 & 4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.3.05.03d.i [Index Number 351]

MJY/VK/sfr

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Southern Nuclear Operating Company
ND-19-1255
Enclosure

Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.3.05.03d.i [Index Number 351]

ITAAC Statement

Design Commitment

3.d) The maintenance hatch hoist is single failure proof.

Inspections,Tests, Analysis

i) Validation of double design factors is provided for hooks where used as load bearing components. Validation of redundant factors is provided for load bearing components such as:

- Hoisting ropes
- Sheaves
- Equalizer assembly
- Holding brakes

Acceptance Criteria

i) A report exists and concludes that the maintenance hatch hoist is single failure proof. A certificate of conformance from the vendor exists and concludes that the maintenance hatch hoist is single failure proof.

ITAAC Determination Basis

Multiple ITAAC are performed to demonstrate that the maintenance hatch hoist is single failure proof. The subject ITAAC requires that validation of double design factors is provided for hooks where used as load bearing components, and that validation of redundant factors is provided for load bearing components such as hoisting ropes, sheaves, equalizer assembly and holding brakes.

The maintenance hatch hoist is a single failure proof design which conforms to the guidelines of NUREG-0554 "Single-Failure-Proof Cranes for Nuclear Power Plants" (Reference 1), supplemented by American Society of Mechanical Engineers (ASME) NOG-1-1998, "Rules for Construction of Overhead and Gantry Cranes (Top Running Bridge, Multiple Girder)" (Reference 2). Single failure proof design is described in NUREG-0554 as "a single failure will not result in the loss of the capability of the system to safely retain the load." The requirements to follow NUREG-0554, supplemented by ASME NOG-1-1998, for the design of the maintenance hatch hoist were imposed in the design specification (Reference 3).

The maintenance hatch hoist single failure proof report (Reference 4) exists and concluded that the maintenance hatch hoist is single failure proof. Additionally, a certificate of conformance (Reference 5) from the maintenance hatch hoist vendor (manufacturer) exists and concluded that the maintenance hatch hoist is single failure proof.

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 2.3.05.03d.i (Reference 6) and is available for NRC review.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.3.05.03d.i 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. NUREG-0554, "Single-Failure-Proof Cranes for Nuclear Power Plants", May 1979
2. ASME NOG-1-1998, "Rules for Construction of Overhead and Gantry Cranes (Top Running Bridge, Multiple Girder)"
3. APP-MH40-Z0-101, Rev. 4, "Design Specification for AP1000 Equipment Hatch Hoist and Maintenance Hatch Hoist for: Mechanical Handling System (MHS)"
4. WEC_SV0_000014, "Vogtle Unit 4 MH40 Maintenance Hatch Hoist Supporting References to Topical Report EDR-1", October 9, 2019
5. SV4-MH40-VQQ-003, Rev. 0, "Quality Release and C of C for SV4 Maintenance Hatch Hoist"
6. 2.3.05.03d.i-U4-CP-Rev 0, ITAAC Completion Package