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Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Unit 3  
ITAAC Closure Notification on Completion of ITAAC 2.3.05.03b.i [Index Number 346]

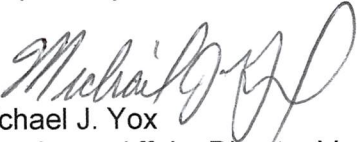
Ladies and Gentlemen:

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 2.3.05.03b.i [Index Number 346] for verifying the Material Handling System Cask Handling Crane 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 3  
Completion of ITAAC 2.3.05.03b.i [Index Number 346]

MJY/GCW/sfr

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**Southern Nuclear Operating Company  
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Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 3  
Completion of ITAAC 2.3.05.03b.i [Index Number 346]**

## **ITAAC Statement**

### **Design Commitment**

3.b) The cask handling crane 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 cask handling crane is single failure proof. A certificate of conformance from the vendor exists and concludes that the cask handling crane is single failure proof.

## **ITAAC Determination Basis**

Multiple ITAAC are performed to demonstrate that the cask handling crane 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 cask handling crane 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 cask handling crane were imposed in the AP1000 Cask Handling Crane for System MHS design specification (Reference 3).

The cask handling crane single failure proof report (Reference 4) exists and concluded that the cask handling crane is single failure proof. Additionally, a certificate of conformance (Reference 5) from the cask handling crane vendor (manufacturer) exists and concluded that the cask handling crane 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 2.3.05.03b.i (Reference 6) and is available for NRC review.

### **ITAAC Completion Statement**

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.3.05.03b.i was performed for VEGP Unit 3 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-MH02-Z0-101, Rev 3, "Design Specification for AP1000 Cask Handling Crane for System MHS"
4. WEC\_SV0\_000007, "Vogtle Unit 3 MH02 Cask Handling Crane Supporting References to Topical Report EDR-1", January 20, 2019
5. SV3-MH02-VQQ-004, Rev. 0, "Quality Release and Certificate of Conformance for SV3 AP1000 Cask Crane"
6. 2.3.05.03b.i-U3-CP-Rev 0, ITAAC Completion Package