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Docket No.: 52-025

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ND-16-2158  
10 CFR 52.99(c)(3)

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

Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Unit 3  
Notice of Uncompleted ITAAC 225-days Prior to Initial Fuel Load  
Item 2.3.05.03b.i [Index Number 346]

Ladies and Gentlemen:

Pursuant to 10 CFR 52.99(c)(3), Southern Nuclear Operating Company hereby notifies the NRC that as of October 14, 2016, Vogtle Electric Generating Plant (VEGP) Unit 3 Uncompleted Inspection, Test, Analysis, and Acceptance Criteria (ITAAC) Item 2.3.05.03b.i [Index Number 346] has not been completed greater than 225-days prior to initial fuel load. The Enclosure describes the plan for completing ITAAC 2.3.05.03b.i [Index Number 346]. Southern Nuclear Operating Company will at a later date provide additional notifications for ITAAC that have not been completed 225-days prior to initial fuel load.

This notification is informed by 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. In accordance with NEI 08-01, this notification includes ITAAC for which required inspections, tests, or analyses have not been performed or have been only partially completed. All ITAAC will be fully completed and all Section 52.99(c)(1) ITAAC Closure Notifications will be submitted to NRC to support the Commission finding that all acceptance criteria are met prior to plant operation, as required by 10 CFR 52.103(g).

This letter contains no new NRC regulatory commitments.

If there are any questions, please contact David Woods at 706-848-6903.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "Michael J. Yox".

Michael J. Yox  
Regulatory Affairs Director Vogtle 3&4

U.S. Nuclear Regulatory Commission

ND-16-2158

Page 2 of 4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 3  
Completion Plan for Uncompleted ITAAC 2.3.05.03b.i [Index Number 346]

MJY/kms/amm

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**Southern Nuclear Operating Company  
ND-16-2158  
Enclosure**

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

**Subject: Uncompleted ITAAC 2.3.05.03b.i [Index No. 346]**

### **ITAAC Statement**

#### **Design Commitment**

*3.b) The cask handling crane is single failure proof.*

#### **Inspections/Tests/Analyses**

*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 Completion Description**

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 breaks.

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 are imposed in the Design Specification for the AP1000 Cask Handling Crane (Reference 3).

A Cask Handling Crane Single Failure Proof Report (Reference 4) exists and concludes 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 concludes that the cask handling crane is single failure proof. The Cask Handling Crane Single Failure Proof Report and the Cask Handling Crane Certificate of Conformance are available for NRC inspection as part of the ITAAC Completion Package (Reference 6).

### **List of ITAAC Findings**

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company (SNC) performed a review of all findings pertaining to the subject ITAAC and associated corrective actions. This review found there are no relevant ITAAC findings associated with this ITAAC.

### **References (available for NRC inspection)**

1. NUREG-0554, "Single-Failure-Proof Cranes for Nuclear Power Plants", 1979
2. ASME NOG-1-1998, "Rules for Construction of Overhead and Gantry Cranes (Top Running Bridge, Multiple Girder)"
3. APP-MH02-Z0-101, Design Specification, "AP1000 Cask Handling Crane"
4. Cask Handling Crane Single Failure Proof Report YYY
5. Certificate of Conformance XXX for the Cask Handling Crane
6. ITAAC 2.3.05.03b.i Completion Package
7. NEI 08-01, "Industry Guideline for the ITAAC Closure Process Under 10 CFR Part 52"