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Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 3
ITAAC Closure Notification on Completion of ITAAC 3.3.00.02g [Index Number 775]

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 3.3.00.02g [Index Number 775] for verifying the containment vessel maximum inside height from the operating deck is 146'-7" (with tolerance of +12", -6"), and the inside diameter is 130 feet nominal (with tolerance of +12", -6"). 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 3.3.00.02g [Index Number 775]

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Southern Nuclear Operating Company
ND-19-0577
Enclosure

Vogtle Electric Generating Plant (VEGP) Unit 3
Completion of ITAAC 3.3.00.02g [Index Number 775]

ITAAC Statement

Design Commitment

2.g) The containment vessel above the operating deck provides a heat transfer surface. A free volume exists inside the containment shell above the operating deck.

Inspections, Tests, Analysis

The maximum containment vessel inside height from the operating deck is measured and the inner radius below the spring line is measured at two orthogonal radial directions at one elevation.

Acceptance Criteria

The containment vessel maximum inside height from the operating deck is 146'-7" (with tolerance of +12", -6"), and the inside diameter is 130 feet nominal (with tolerance of +12", -6").

ITAAC Determination Basis

The as-built maximum containment vessel inside height from the operating deck and the inner radius below the spring line at two orthogonal radial directions at one elevation were measured to determine that the containment vessel above the operating deck provides a heat transfer surface and a free volume exists inside the containment shell above the operating deck.

The maximum containment vessel inside height was measured by first determining the elevation of the operating deck, from four surveyed measurement locations on elevation 107'-2". The elevation of the highest inside point of the containment vessel was surveyed to determine the highest Z-coordinate called the apex. The maximum containment vessel inside height was then calculated as the range in difference between the containment vessel apex measurement and the highest operating deck height and the lowest operating deck height. The range of maximum inside height measurements from the operating deck were determined to be within the ITAAC acceptance criteria tolerance. All containment vessel inside height measurements and operating deck measurements were taken using survey equipment in accordance with site survey procedures (Reference 1).

To measure the radius of containment, due to physical constraints that exist at the center of containment, the center was determined using three survey points along the inner radius to create a circle. Two of the survey points used were 127 degrees apart and the third point was approximately mid-way between the others. Once the center of containment was established, the measured radii for eighteen different points on the inner containment surface were plotted. The eighteen points plotted were within the 127-degree arc which satisfies the requirement for the measured radii to be orthogonal. The maximum and the minimum diameter were determined to be within the ITAAC acceptance criteria tolerance. All radii measurements were surveyed at an elevation of 107'-2" which is below the spring line. The spring line is the height where the containment becomes cylindrical at elevation 244'-2 ½", as shown on Reference 2. Containment inside diameter measurements were taken using survey equipment in accordance with site survey procedures (Reference 1).

The measurement results are documented in the Unit 3 Principal Closure Document (Reference 3) and confirm that the containment vessel maximum inside height from the operating deck is between 146'- 6 11/16" and 146'- 6 15/16", and the inside diameter is between 130'-1" and 130'-8" which meets the ITAAC acceptance criteria.

References 1 through 3 are available for NRC inspection as part of the Unit 3 ITAAC completion package (Reference 4).

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 3.3.00.02g (Reference 4) and is available for NRC review.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 3.3.00.02g 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. 26139-000-4MP-T81C-N3201, Rev. 4, "Construction Survey"
2. APP-1000-P2-901, Rev 5, "Nuclear Island General Arrangement, Section A-A"
3. SV3-1000-FSK-800755, Rev. 1, "Vogtle Unit 3 Containment Vessel Inside Height from the Operating Deck and the Inside Diameter"
4. 3.3.00.02g-U3-CP-Rev. 0, ITAAC Completion Package