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Southern Nuclear Operating Company
Vogtle Electric Generating Plant Units 3 and 4
Completion of ITAAC 2.6.03.08

The purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of the *Simulated* completion of Vogtle Electric Generating Plant (VEGP) Unit 3, Inspection, Test, Analysis and Acceptance Criteria (ITAAC) Item 2.6 03.08 for verifying fault interruption capability for the Class 1E dc and Uninterruptible Power Supply System (IDS) in accordance with 10 CFR 52.99(c)(1). The closure process for this ITAAC is based on the guidance described in NEI 08-01 (Reference 1).

ITAAC Statement

Design Commitment:

Circuit breakers and fuses in IDS battery, battery charger, dc distribution panel, and MCC circuits are rated to interrupt fault currents.

Inspections, Tests, Analysis:

Analyses for the as-built IDS dc electrical distribution system to determine fault currents will be performed.

Acceptance Criteria:

Analyses for the as-built IDS dc electrical distribution system exist and conclude that the analyzed fault currents do not exceed the interrupt capacity of circuit breakers and fuses in the battery, battery charger, dc distribution panel, and MCC circuits, as determined by their nameplate ratings.

D103
NRO

ITAAC Determination Basis

Analyses for the as-built IDS dc electrical distribution system were performed ensuring that the analyzed fault currents did not exceed the interrupt capacity of circuit breakers and fuses in the battery, battery charger, dc distribution panel, and MCC circuits, as determined by their nameplate ratings.

The minimum required interrupt capacity rating of circuit breakers and fuses in the battery, battery charger, dc distribution panel, and MCC circuits in the IDS were determined by calculation and summarized in letter SV0-IDS-E0Y-XXX (Reference 2). This calculation utilized the worst case short circuit contribution from each battery and charger in the IDS as input to the protection coordination study, which determined protective device sizes in accordance with the criteria stated in Section 7.1 of IEEE 946.

An inspection (Reference 3) of the as-built IDS was performed to verify and document the nameplate rating for each of these devices. The nameplate rating was compared against the analytically determined system fault currents. The determined fault currents do not exceed the interrupt capacity of these circuit breakers and fuses. The combination of the inspection of the as-built IDS and the analysis documented in Reference 2 ensure that the circuit breakers and fuses in IDS battery, battery charger, dc distribution panel, and MCC circuits are rated to interrupt fault current.

ITAAC-Related Construction Finding Review

In accordance with procedure for ITAAC closure, Southern Nuclear performed a review of all ITAAC-related construction findings pertaining to the subject ITAAC. This review found that there were no relevant ITAAC-related construction findings associated with this ITAAC. The ITAAC Completion Package (Reference 4) documents the closure for ITAAC 2.6 03.08 and is available for NRC review.

ITAAC Closure Statement

Based on the above information for VEGP Unit 3, Southern Nuclear hereby notifies the NRC that ITAAC 2.6 03.08 was performed and the prescribed acceptance criteria are met.

We request 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 J. (Jim) T. Davis at 706-826-5544.

Sincerely,

J. T. Davis
Vogtle 3 & 4 Licensing Supervisor
SNC Nuclear Development

JTD/faw

References (available for NRC review)

1. NEI 08-01, Industry Guideline for the ITAAC Closure Process Under 10 CFR Part 52.
2. SV0-IDS-E0Y-XXX, Westinghouse Engineering Letter "IDS Protection Coordination Study Results"
3. SV2-IDS-GQI-XXX, SV2 Fault Current Interruption Device Inspection
4. SV2 ITAAC 2.6 03.08 ITAAC Completion Package
5. IEEE 946 - Recommended Practice for the Design of DC Auxiliary Power Systems for Generating Stations

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