

May 5, 2023

Docket No.: 52-026

ND-23-0349
10 CFR 52.99(c)(1)

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

Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 4
ITAAC Closure Notification on Completion of ITAAC Item 2.1.02.08b [Index Number 30]

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 2.1.02.08b [Index Number 30]. This ITAAC confirms the Reactor Coolant Pumps provide Reactor Coolant System flow coastdown on loss of power to the pumps. The closure process for this ITAAC is based on the guidance described in Nuclear Energy Institute (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) 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 Kelli A. Roberts at 706-848-6991.

Respectfully submitted,



Jamie M. Coleman
Regulatory Affairs Director Vogtle 3 & 4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.1.02.08b [Index Number 30]

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cc: Regional Administrator, Region II
Director, Office of Nuclear Reactor Regulation (NRR)
Director, Vogtle Project Office NRR
Senior Resident Inspector – Vogtle 3 & 4

**Southern Nuclear Operating Company
ND-23-0349
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.1.02.08b [Index Number 30]**

ITAAC Statement

Design Commitment

8.b) The RCPs have a rotating inertia to provide RCS flow coastdown on loss of power to the pumps.

Inspections, Tests, Analyses

A test will be performed to determine the pump flow coastdown curve.

Acceptance Criteria

The pump flow coastdown will provide RCS flows greater than or equal to the flow shown in Figure 2.1.2-2, "Flow Transient for Four Cold Legs in Operation, Four Pumps Coasting Down."

ITAAC Determination Basis

Testing was performed in accordance with Unit 4 preoperational test procedure 4-RCS-ITPP-506 (Reference 1) using Work Order 1192131 (Reference 2) to confirm that the pump flow coastdown will provide Reactor Coolant System (RCS) flows greater than or equal to the flow shown in Figure 2.1.2-2, "Flow Transient for Four Cold Legs in Operation, Four Pumps Coasting Down."

The testing established the RCS at approximately 557°F and 2240 psig with all 4 Reactor Coolant Pumps (RCPs) at 100% speed for a minimum of 12 hours to ensure thermal stability. Data acquisition recorders were started and utilized to monitor RCP breaker status and RCS flow data then all 4 RCPs were tripped simultaneously. Data was collected for 10 minutes after all 4 RCPs speed indicate 0 revolutions per minute. An evaluation (Reference 4) was documented in reference 1 and 3 and demonstrated that for Unit 4 the pump flow coastdown provided RCS flows greater than or equal to the flow shown in Figure 2.1.2-2, "Flow Transient for Four Cold Legs in Operation, Four Pumps Coasting Down."

References 1 through 4 are available for NRC inspection as part of Unit 4 ITAAC 2.1.02.08b Completion Package (Reference 5).

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company (SNC) performed a review of findings pertaining to the subject ITAAC and associated corrective actions. This review found there are no relevant ITAAC findings associated with this ITAAC. The ITAAC completion review is documented in the ITAAC Completion Package for ITAAC 2.1.02.08b (Reference 5) and is available for NRC review.

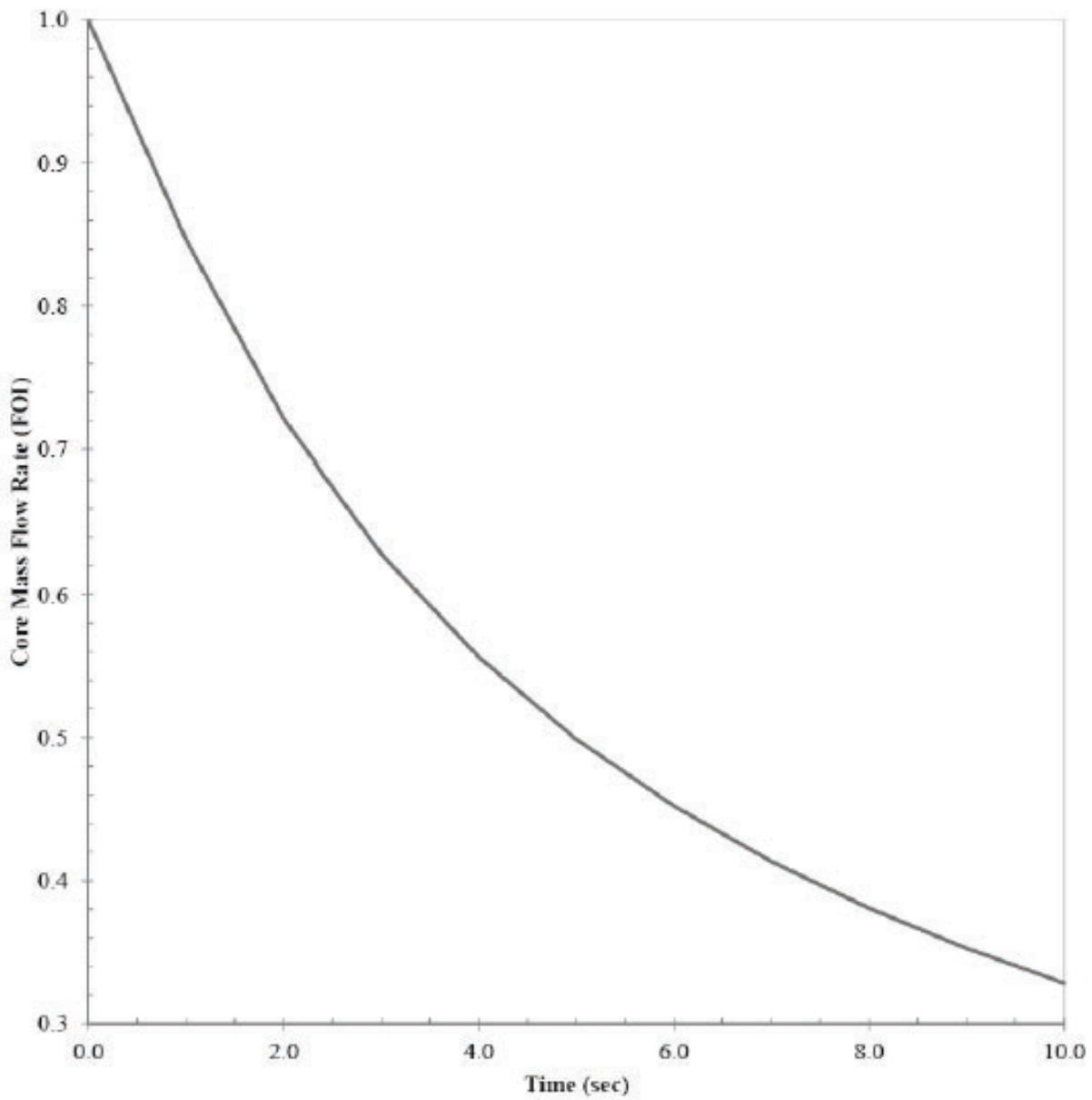
ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.1.02.08b 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. 4-RCS-ITPP-506, Rev. 0, "Reactor Coolant Pump and Reactor Coolant Flow Precore Hot Functional"
2. SV4-RCS-T0W-1192131, Rev. 0, "Perform Pre-Op Test 4-RCS-ITPP-506"
3. SV4-RCS-ITR-800030, Rev. 0, "Unit 4 Recorded Results of RCS Flow Coastdown Measurement Test: ITAAC 2.1.02.08b"
4. SV4-RCS-T2C-5063, Rev. 0, "Vogtle Unit 4 RCS Flow Coastdown Preoperational Testing Results Validation"
5. 2.1.02.08b-U4-CP-Rev0, ITAAC Completion Package



Note: FOI = Fraction of Initial

Figure 2.1.2-2
Flow Transient for Four Cold Legs
in Operation, Four Pumps Coasting Down