

July 8, 2023

Docket No.: 52-026

ND-23-0582  
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 2.3.29.04 [Index Number 491]

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 2.3.29.04 [Index Number 491]. This ITAAC confirms that the Waste Water System stops the discharge from the turbine building sumps upon detection of high radiation in the discharge stream to the oil separator. 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) 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 Kelli 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 2.3.29.04 [Index Number 491]

JMC/KIK/sfr

U.S. Nuclear Regulatory Commission

ND-23-0582

Page 2 of 2

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-23-0582  
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4  
Completion of ITAAC 2.3.29.04 [Index Number 491]**

## **ITAAC Statement**

### **Design Commitment**

4. The WWS stops the discharge from the turbine building sumps upon detection of high radiation in the discharge stream to the oil separator.

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

Tests will be performed to confirm that a simulated high radiation signal from the turbine building sump discharge radiation monitor, WWS-021 causes the sump pumps (WWS-MP-01A and B, and WWS-MP-07A and B) to stop operating, stopping the spread of radiation outside of the turbine building.

### **Acceptance Criteria**

A simulated high radiation signal causes the turbine building sump pumps (WWS-MP-01A and B, and WWS-MP-07A and B) to stop operating, stopping the spread of radiation outside of the turbine building.

## **ITAAC Determination Basis**

This ITAAC was performed to verify, by testing, that a simulated high radiation signal from the turbine building sump discharge radiation monitor, WWS-021 caused the sump pumps (WWS-MP-01A and B, and WWS-MP-07A and B) to stop operating, stopping the spread of radiation outside of the turbine building.

The turbine building sump pumps are pneumatic, double diaphragm pumps that are controlled (stop / start) by individual air solenoid valves. The waste water system (WWS) has two turbine building sumps with two pumps per sump (sump A – WWS-MP-01A and WWS-MP-07A / sump B – WWS-MP-01B and WWS-MP-07B). The work order listed in Reference 1 established initial conditions by manually isolating air to the turbine building sump pumps. A high level sump signal to all the turbine building sump pumps was input causing the air solenoid valves to open. The open solenoid valves resulted in a RUNNING indication in the Main Control Room (MCR) for each of the sump pumps. A simulated high radiation signal from the turbine building sump discharge radiation monitor (WWS-021) was input causing the air solenoid valves to close. The closing of the air solenoid valves caused a STOPPED indication to be displayed in the MCR for each of the pumps confirming the high radiation signal caused the sump pumps to stop.

The completed test results (Reference 1) confirm a simulated high radiation signal causes the turbine building sump pumps (WWS-MP-01A and B, and WWS-MP-07A and B) to stop operating, stopping the spread of radiation outside of the turbine building.

Reference 1 is available for NRC inspection as part of ITAAC 2.3.29.04 Unit 4 Completion Package (Reference 2).

### **ITAAC Finding Review**

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. The ITAAC completion review is documented in the ITAAC 2.3.29.04 Completion Package (Reference 2) and is available for NRC review.

### **ITAAC Completion Statement**

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.3.29.04 was performed for VEGP Unit 4 and that the prescribed acceptance criteria are 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. SV4-WWS-ITR-800491, Rev. 0, "Unit 4 Recorded Results of: ITAAC 2.3.29.04 NRC Index Number: 491"
2. 2.3.29.04-U4-CP-Rev0, "ITAAC Completion Package"