



November 21, 2016
NND-16-0492
10 CFR 52.99(c)(1)

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

Subject: Virgil C. Summer Nuclear Station (VCSNS) Unit 2
Combined License No. NPF-93
Docket Number 52-027
ITAAC Closure Notification on Completion of ITAAC 2.5.01.03h [Index
No. 518]

Attachments: (1) References

The purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) in accordance with 10 CFR 52.99(c)(1) of the completion of Virgil C. Summer Nuclear Station (VCSNS) Unit 2 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.5.01.03h for verifying that a report exists and concludes the Diverse Actuation System (DAS) equipment can withstand the room ambient temperature and humidity conditions that will exist at the plant locations in which the DAS equipment is installed at the times for which the DAS is designed to be operational. The closure process for this ITAAC is based on the guidance described in NEI 08-01 (Reference 1), which was endorsed by the NRC in Regulatory Guide 1.215.

ITAAC Statement

Design Commitment:

- 3.h) *The DAS equipment can withstand the room ambient temperature and humidity conditions that will exist at the plant locations in which the DAS equipment is installed at the times for which the DAS is designed to be operational.*

Inspections, Tests, Analyses:

Type tests, analyses, or a combination of type tests and analyses will be performed on the equipment.

Acceptance Criteria:

A report exists and concludes that the DAS equipment can withstand the room ambient temperature and humidity conditions that will exist at the plant locations in which the DAS equipment is installed at the times for which the DAS is designed to be operational.

ITAAC Determination Basis

A combination of type tests and analyses were performed to demonstrate the DAS equipment can withstand the room ambient temperature and humidity conditions that will exist at the plant locations in which the DAS equipment is installed at the times for which the DAS is designed to be operational. The DAS equipment is located in a controlled environment and performs no safety function but is capable of functioning during and after normal and abnormal events.

Type testing and analysis were performed in accordance with the AP1000 Plant Equipment Qualification Methodology and Regulatory Guide 1.89, "Environmental Qualification of Certain Electric Equipment Important to Safety for Nuclear Power Plants" (Reference 2). The results were documented in the DAS Equipment Qualification Summary Report (EQSR) (Reference 3) and the DAS Equipment Qualification Data Package (EQDP) (Reference 4).

The DAS EQSR and EQDP document the equipment that was tested and analyzed, qualification requirements based on conditions that exist in the locations that the DAS equipment is located, type of qualification, and results of each qualification type test and analysis. These reports conclude the DAS equipment can withstand the room ambient temperature and humidity conditions that will exist at the plant locations in which the DAS equipment is installed at the times for which the DAS is designed to be operational.

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, SCE&G performed a review of all 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 2.5.01.03h (Reference 5) and available for NRC inspection.

ITAAC Completion Statement

Based on the above information, SCE&G hereby notifies the NRC that ITAAC 2.5.01.03h was performed for VCSNS Unit 2 and that the prescribed acceptance criteria are met.


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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.

We request NRC staff confirmation of this determination and publication of the required notice in the Federal Register per 10 CFR 52.99(e)(1).

If there are any questions, please contact Ryder Thompson at (803) 941-9812.

Sincerely,


FOR April R. Rice
Manager
Nuclear Licensing
New Nuclear Deployment

RT/AR/hz

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References (available for NRC inspection):

1. NEI 08-01, Industry Guideline for the ITAAC Closure Process Under 10 CFR Part 52.
2. Regulatory Guide 1.89, Environmental Qualification of Certain Electric Equipment Important to Safety for Nuclear Power Plants.
3. APP-DAS-VBR-002, Equipment Qualification Summary Report for the Diverse Actuation System for Use in the AP1000 Plant.
4. APP-DAS-VBR-003, Equipment Qualification Data Package for the Diverse Actuation System for Use in the AP1000 Plant.
5. ITAAC 2.5.01.03h Completion Package.