



November 13, 2015
NND-15-0644
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 for ITAAC 2.5.09.03 [Index No. 577]

Attachments: 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 2.5.09.03 for verifying that a report exists and concludes that the Seismic Monitoring System (SJS) triaxial acceleration sensors have a dynamic range of at least 0.001g to 1.0 g and a frequency range of at least 0.2 to 50 Hertz. 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 (Reference 1), which was endorsed by the NRC in Regulatory Guide 1.215.

ITAAC Statement

Design Commitment:

3. *The SJS has a dynamic range of 0.001g to 1.0g and a frequency range of 0.2 to 50 Hertz.*

Inspections, Tests, Analyses:

Type tests, analyses, or a combination of type tests and analyses, of the SJS triaxial acceleration sensors will be performed.

Acceptance Criteria:

A report exists and concludes that the SJS triaxial acceleration sensors have a dynamic range of at least 0.001g to 1.0g and a frequency range of at least 0.2 to 50 Hertz.

ITAAC Determination Basis

The Seismic Monitoring System SJS collects and analyzes seismic data and notifies the operator if the ground motion exceeds a threshold value and if a predetermined cumulative absolute velocity has been exceeded. The SJS triaxial acceleration sensors are a component of the overall SJS. A report exists and concludes that the SJS triaxial acceleration sensors have a dynamic range of at least 0.001g to 1.0g and a frequency range of at least 0.2 to 50 Hertz.

Type tests were performed to demonstrate the SJS triaxial acceleration sensors have a dynamic range of at least 0.001g to 1.0g and a frequency range of at least 0.2 to 50 Hertz. Type Testing of the SJS Triaxial Acceleration Sensors was performed at the supplier's facility during the Factory Acceptance Test (FAT). The SJS Triaxial Acceleration Sensors were tested by simulating an earthquake and recording the data.

Type tests were performed on a triaxial acceleration sensor of the same manufacturer and model as used in the V.C. Summer Unit 2 Seismic Monitoring System. The test results were documented in the ITAAC requirements report (Reference 2) which demonstrated and concluded the following.

- Recorded spectrums from type tests applying a frequency sweep demonstrated the ability to sense frequencies from 0.1 Hz to 100 Hz, exceeding the requirement of a frequency range from 0.2 to 50 Hz.
- Recorded spectrums from type tests demonstrated capability to sense amplitude of 0.000138g exceeding the requirement that the dynamic range can measure amplitude of 0.001g.
- Recorded spectrums from type tests demonstrated capability to sense amplitude of 1.03485g exceeding the requirement that the dynamic range can measure amplitude of 1.0g.

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 2.5.09.03 (Reference 3) and is available for NRC inspection.

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ITAAC Completion Statement

Based on the above information, SCE&G hereby notifies the NRC that ITAAC 2.5.09.03 was performed for VCSNS Unit 2 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.

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 Nick Kellenberger at (803) 941-9834.

Sincerely,



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Manager
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NK/AR/vk

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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. VS2-JS01-VQ-850004, Seismic Monitoring System ITAAC Requirements
3. ITAAC 2.5.09.03 Completion Package