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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 2.5.09.02 [Index Number 576]

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 2.5.09.02 [Index Number 576] for verifying that a report exists and concludes that the Seismic Monitoring System (SJS) time-history analyzer and recording system can record data at a sampling rate of at least 200 samples per second, that the pre-event recording time is adjustable from less than or equal to 1.2 seconds to greater than or equal to 15.0 seconds, and that the initiation value is adjustable from less than or equal to 0.002g to greater than or equal to 0.02g. 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, 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 Paulo Albuquerque at 706-848-5531.

Respectfully submitted,

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Regulatory Affairs Director Vogtle 3&4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.5.09.02 [Index Number 576]

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**Southern Nuclear Operating Company
ND-15-1908
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.5.09.02 [Index Number 576]**

ITAAC Statement

Design Commitment:

2. The SJS can compute CAV (Cumulative Absolute Velocity) and the 5 percent of critical damping response spectrum for frequencies between 1 and 10 Hz.

Inspections, Tests, Analyses:

Type tests using simulated input signals, analyses, or a combination of type tests and analyses, of the SJS time-history analyzer and recording system will be performed.

Acceptance Criteria:

A report exists and concludes that the SJS time-history analyzer and recording system can record data at a sampling rate of at least 200 samples per second, that the pre-event recording time is adjustable from less than or equal to 1.2 seconds to greater than or equal to 15.0 seconds, and that the initiation value is adjustable from less than or equal to 0.002g to greater than or equal to 0.02g.

ITAAC Determination Basis

The Vogtle Electric Generating Plant (VEGP) Unit 4 Seismic Monitoring System (SJS) time-history analyzer and recording system is a component of the overall SJS. The time-history analyzer is a multichannel, digital recording system with the capability to automatically download the recorded acceleration data to a dedicated computer for data storage, playback, and analysis after a seismic event.

Type tests and analysis were performed to demonstrate the SJS time-history analyzer and recording system can record data at a sampling rate of at least 200 samples per second, that the pre-event recording time is adjustable from less than or equal to 1.2 seconds to greater than or equal to 15.0 seconds, and that the initiation value is adjustable from less than or equal to 0.002g to greater than or equal to 0.02g.

The SJS time-history analyzer and recording system parameters were verified by the vendor as part of Factory Acceptance Testing. As part of this testing, each parameter (sampling rate, pre-event recording time, and initiation value) was adjusted, and a file was run for the appropriate spectrum. The test results were documented in ITAAC Requirements (Reference 1) and demonstrated the following:

- Type testing was performed at a sampling rate of 200 samples per second, meeting the requirement of a recording system capability of at least 200 samples per second.
- Recorded spectrums from type tests demonstrated pre-event recording times of 1 second and at 30 seconds, exceeding the requirement that the pre-event recording time is adjustable from less than or equal to 1.2 seconds to greater than or equal to 15.0 seconds.

- Analysis of the motion recorders demonstrated the minimum initiation value to be 0.00000381g and the maximum initiation value of 4.0g, exceeding the requirement that the initiation value is adjustable from less than or equal to 0.002g to greater than or equal to 0.02g.

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company (SNC) performed a review of all ITAAC 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 document number is included in the Vogtle Unit 4 ITAAC Completion Package for ITAAC 2.5.09.02 (Reference 2) and available for NRC inspection.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.5.09.02 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-JS01-VQ-850003 Revision 0, ITAAC Requirements
2. SVP_SV0_003489, Attachment 1, Submittal of Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 2.5.09.02 (576) (SJS Time History Analyzer and Recording System)