

Michael J. Yox
Regulatory Affairs Director
Vogtle 3 & 4
Nuclear Development

Southern Nuclear
Operating Company, Inc.
7825 River Road
Waynesboro, GA 30830
Tel: 706.848.6459



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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 2.5.09.03 [Index Number 577]

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 2.5.09.03 [Index Number 577] for verifying a report exists and concludes that the Seismic Monitoring System (SJS) triaxial acceleration sensors have a dynamic range of at least 0.001g to 1.0g 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, 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,

Michael J. Yox
Regulatory Affairs Director Vogtle 3&4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.5.09.03 [Index Number 577]

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To:

Southern Nuclear Operating Company / Georgia Power Company

Mr. S. E. Kuczynski (w/o enclosures)

Mr. J. A. Miller

Mr. D. A. Bost (w/o enclosures)

Mr. M. D. Meier

Mr. M. D. Rauckhorst (w/o enclosures)

Mr. J. T. Gasser (w/o enclosures)

Mr. D. H. Jones (w/o enclosures)

Ms. K. D. Fili

Mr. D. L. McKinney

Mr. B. H. Whitley

Mr. D. L. Fulton

Mr. M. J. Yox

Mr. P. C. Albuquerque

Ms. A. L. Pugh

Mr. J. J. Olson

Mr. W. A. Sparkman

Mr. J. P. Redd

Mr. R. D. Culver

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cc:

Nuclear Regulatory Commission

Ms. C. Haney (w/o enclosures)

Mr. M. Delligatti (w/o enclosures)

Mr. L. Burkhart (w/o enclosures)

Mr. C. Patel

Ms. D. L. McGovern

Mr. B. C. Anderson

Mr. B. M. Bovol

Ms. R. Reyes

Ms. M. A. Sutton

Mr. M. E. Ernestes

Mr. G. Khouri

Mr. M. G. Kowal

Mr. L. M. Cain

Mr. J. D. Fuller

Mr. T. Chandler

Ms. S. Temple

Ms. P. Braxton

Oglethorpe Power Corporation

Mr. M. W. Price

Ms. K. T. Haynes

Ms. A. Whaley

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Municipal Electric Authority of Georgia

Mr. J. E. Fuller

Mr. S. M. Jackson

Dalton Utilities

Mr. D. Cope

CB&I

Mr. J. Simmons (w/o enclosures)

Ms. K. Stoner (w/o enclosures)

Mr. C. A. Castell

Westinghouse Electric Company, LLC

Mr. R. Easterling (w/o enclosures)

Mr. J. W. Crenshaw (w/o enclosures)

Mr. L. Woodcock (w/o enclosures)

Mr. M. P. Rubin

Mr. P. A. Russ

Mr. G. F. Couture

Mr. M. Y. Shaqqo

Ms. S. DiTommaso

Other

Mr. R. W. Prunty, *Bechtel Power Corporation*

Ms. L. Matis, *Tetra Tech NUS, Inc.*

Dr. W. R. Jacobs, Jr., *Ph.D., GDS Associates, Inc.*

Mr. S. Roetger, *Georgia Public Service Commission*

Ms. S. W. Kernizan, *Georgia Public Service Commission*

Mr. K. C. Greene, *Troutman Sanders*

Mr. S. Blanton, *Balch Bingham*

**Southern Nuclear Operating Company
ND-15-1914
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.5.09.03 [Index Number 577]**

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. This ITAAC requires that a report exists demonstrating 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. 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 Vogtle Unit 4 Seismic Monitoring System. The test results were documented in the ITAAC requirements report (Reference 1) 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, 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 2.5.09.03 (Reference 2) and available for NRC inspection.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.5.09.03 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, Rev 0, ITAAC requirements
2. SVP_SV0_003537, Attachment 1, Submittal of Revised Inspections, Test, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 2.5.09.03 (577) (SJS Triaxial Acceleration Sensors)