

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



Docket No.: 52-026

DEC 27 2016

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

ND-16-2731
10 CFR 52.99(c)(1)

Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 4
ITAAC Closure Notification on Completion of ITAAC 3.2.00.01b [Index Number 740]

Ladies and Gentlemen:

In accordance with 10 CFR 52.99(c)(1), 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 3.2.00.01b [Index Number 740] for verifying the Human Factors Engineering Design Verification was performed in conformance with the implementation plan. 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 David Woods at 706-848-6903.

Respectfully submitted,

Michael J. Yox
Regulatory Affairs Director Vogtle 3&4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 3.2.00.01b [Index Number 740]

MJY/RDH/amm

To:

Southern Nuclear Operating Company/ Georgia Power Company

Mr. D. A. Bost (w/o enclosures)
Mr. M. D. Meier
Mr. M. D. Rauckhorst (w/o enclosures)
Mr. D. H. Jones (w/o enclosures)
Ms. K. D. Fili
Mr. D. L. McKinney
Mr. D. L. Fulton
Mr. C. E. Morrow
Mr. M. J. Yox
Mr. D. Woods
Ms. A. L. Pugh
Ms. K. M. Stacy
Mr. A. S. Parton
Mr. W. A. Sparkman
Mr. J. P. Redd
Mr. D. R. Culver
Mr. F. H. Willis
Ms. A. C. Chamberlain
Document Services RTYPE: VND.LI.L06
File AR.01.02.06

cc:

Nuclear Regulatory Commission

Mr. W. Jones (w/o enclosures)
Ms. J. M. Heisserer
Mr. C. P. Patel
Mr. M. E. Ernstes
Mr. G. J. Khouri
Mr. J. D. Fuller
Mr. T. E. Chandler
Ms. S. E. Temple
Ms. P. Braxton
Mr. T. C. Brimfield
Mr. A. J. Lerch
Mr. C. J. Even
Ms. V. L. Ordaz

Oglethorpe Power Corporation

Mr. K. T. Haynes
Mr. R. B. Brinkman

Municipal Electric Authority of Georgia

Mr. J. E. Fuller
Mr. S. M. Jackson

Dalton Utilities

Mr. T. Bundros

WECTEC

Mr. C. A. Castell

Westinghouse Electric Company, LLC

Mr. R. Easterling (w/o enclosures)

Mr. G. Koucheravy (w/o enclosures)

Mr. F. Gill

Ms. L. Iller

Mr. J. Hopkins

Mr. D. Hawkins

Mr. C. F. Landon

Mr. M. Y. Shaqo

Ms. S. DiTommaso

Mr. A. F. Dohse

Other

Mr. J. E. Hesler, *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*

U.S. Nuclear Regulatory Commission
ND-16-2731 Enclosure
Page 1 of 3

**Southern Nuclear Operating Company
ND-16-2731
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 3.2.00.01b [Index Number 740]**

ITAAC Statement

Design Commitment:

1. The HFE verification and validation program is performed in accordance with the HFE verification and validation implementation plan and includes the following activities:

b) HFE design verification

Inspections, Tests, Analyses:

b) An evaluation of the implementation of the HFE design verification will be performed.

Acceptance Criteria:

b) A report exists and concludes that: HFE design verification was conducted in conformance with the implementation plan and includes verification that the HSI design is consistent with the AP1000 specific design guidelines developed for each HSI resource.

ITAAC Determination Basis

Multiple ITAAC are performed to confirm the Human Factors Engineering (HFE) verification and validation program, as described in Chapter 18 of the Updated Final Safety Analysis Report, is performed in accordance with the HFE verification and validation implementation plan. The subject ITAAC performs an evaluation of the implementation of the Human System Interface (HSI) design verification.

The HSI design verification was conducted in conformance with the NRC approved AP1000 Human Factors Engineering Design Verification Plan, APP-OCS-GEH-120 (Reference 1). The implementation plan includes the methodology by which the HSI resources and Operation and Control Center System design is evaluated against the human factors design guidelines.

The results of the evaluation are documented in the AP1000 Human Factors Engineering Design Verification Report, APP-OCS-GER-120 (Reference 2) and conclude the HSI design verification was conducted in accordance with the implementation plan and includes verification that the HSI design is consistent with the AP1000 specific design guidelines developed for each HSI resource.

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 is documented in the Vogtle Unit 4 ITAAC Completion Package for ITAAC 3.2.00.01b (Reference 3) and available for NRC inspection.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 3.2.00.01b 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. APP-OCS-GEH-120, Revision 3, "AP1000 Human Factors Engineering Design Verification Plan"
2. APP-OCS-GER-120, Revision 2, "AP1000 HFE Design Verification Report"
3. SVP_SV0_004504, Attachment 1, "Submittal of Inspections, Tests, Analyses and Acceptance Criteria (ITAAC) Completion Package for Unit 4 ITAAC 3.2.00.01b [COL Index Number 740] (HFE DV Evaluation)"