

**Southern Nuclear
Operating Company, Inc.**
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JUL 27 2010

Docket Nos.: 52-025
52-026

ND-10-1371

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

Southern Nuclear Operating Company
Vogtle Electric Generating Plant Units 3 and 4 Combined License Application
Voluntary Revisions to Part 2, FSAR and Part 5, Emergency Plan

Ladies and Gentlemen:

By letter dated March 28, 2008, Southern Nuclear Operating Company (SNC) submitted an application for combined licenses (COLs) for proposed Vogtle Electric Generating Plant (VEGP) Units 3 and 4 to the U.S. Nuclear Regulatory Commission (NRC) for two Westinghouse AP1000 reactor plants, in accordance with 10 CFR Part 52. As a result of the NRC's detailed review of the initial AP1000 Reference COL application (Bellefonte Units 3 and 4), the NRC identified a need for additional information involving human factors engineering design information related to the Technical Support Center (TSC) and the Emergency Operations Facility (EOF). By letter dated February 23, 2009, the Tennessee Valley Authority (TVA) responded to this request for additional information. The response indicated that the response was standard for AP1000 Subsequent COL applications (S-COLAs). In a teleconference on June 14, 2010, the NRC indicated that they need additional information to complete their review of VEGP 3 and 4 Final Safety Analysis Report (FSAR) Chapter 18 as it relates to the human factors design of the EOF. The enclosure to this letter provides the SNC response to this request.

This letter identifies changes that will be made to a future revision of the VEGP Units 3 and 4 Combined License Application (COLA).

If you have any questions regarding this letter, please contact Mr. Wes Sparkman at (205) 992-5061 or Ms. Amy Aughtman at (205) 992-5805.

DO92
NRO

Mr. C.R. Pierce states he is the AP1000 Licensing Manager of Southern Nuclear Operating Company, is authorized to execute this oath on behalf of Southern Nuclear Operating Company and to the best of his knowledge and belief, the facts set forth in this letter are true.

Respectfully submitted,

SOUTHERN NUCLEAR OPERATING COMPANY

Charles R. Pierce

Charles R. Pierce

Sworn to and subscribed before me this 27th day of July, 2010

Notary Public: Dana Marie Williams

My commission expires: 12/29/2010



CRP/BJs

Enclosure: VEGP Units 3 and 4 COL Application – Voluntary Revisions to Part 2 - FSAR
and Part 5 - Emergency Plan Involving the Emergency Operations Facility

cc: Southern Nuclear Operating Company

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Document Services RTYPE: AR01.1053
File AR.01.02.06

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Southern Nuclear Operating Company

ND-10-1371

Enclosure

VEGP Units 3 and 4 COL Application

**Voluntary Revisions to Part 2 – FSAR
and
Part 5 – Emergency Plan**

Involving the Emergency Operations Facility

eRAI Tracking No. NA

NuStart Qb Tracking No. 4170

NRC SER OI Number: NA

Combined License Information Item 18.2-2 commits the design of the Technical Support Center (TSC) and Emergency Operations Facility (EOF) to the Human Factors Engineering (HFE) elements described in Westinghouse Technical Report APP-GW-GLR-136. To obtain clarification regarding the HFE elements that will be applied to the TSC and EOF that are not within the scope of the Westinghouse HFE program, the NRC issued Request for Additional Information (RAI) 143 to TVA in a letter dated January 8, 2009. TVA responded in a letter dated February 23, 2009. The letter indicated that the response would be standard for S-COLAs.

Item 3 of the response indicated that for functional requirements of the TSC and EOF, applicants will use the criteria in NUREG-0737 supplement 1 (Sections 3.0, 8.2 and 8.4), NUREG-0654 (Section III), and NUREG-0696 for the TSC and EOF. VEGP 3 and 4 Emergency Plan Section H, Emergency Facilities, indicates the TSC is designed to the requirements of NUREG 0696, but a similar reference to NUREG 0696 for the EOF could not be located within the VEGP emergency plan.

SNC Response:

A common EOF is located in Birmingham, Alabama, at the SNC headquarters office, and it supports all of SNC's units including VEGP Units 3 and 4. The common EOF was approved by the NRC in 2005. The NRC review of the common EOF based on NUREG 0696 is contained in SECY-04-0236. The EOF is described in Appendix 7 of the VEGP 3 and 4 Emergency Plan, but does not contain the reference to NUREG 0696. The reference to NUREG 0696 as it pertains to the EOF will be added to a future revision of the COL application.

In addition, FSAR Subsections 18.2.1.3 and 18.2.7 will be revised to reflect the changes made to Combined License Information Item 18.2-2 in AP1000 Design Control Document (DCD) Revision 17 and Westinghouse letter DCP_NRC_002577, dated July 31, 2009.

This response is SITE SPECIFIC.

Associated VEGP COL Application Revisions:

1. COLA Part 2, FSAR Chapter 18, Subsection 18.2.1.3, will be revised from:

A common EOF is located in Birmingham, Alabama, and it supports all of SNC's units including VEGP Units 3 and 4. The EOF communications strategy is described in the Emergency Plan. The scope of functions and tasks to which the AP1000 Human Factors Engineering Program Plan will be applied to the TSC and the EOF are identified and addressed in Westinghouse Technical Report APP-GW-GLR-136 (Reference 201).

To read:

The EOF and TSC communications strategies, as well as the EOF and TSC Human Factors attributes, are described in the Emergency Plan. FSAR 9.5.2.2.5 provides additional information related to offsite interfaces.

2. COLA Part 2, FSAR Chapter 18, will be revised to delete Subsection 18.2.7 and Reference 201.
3. COLA Part 2, FSAR Chapter 9, Subsection 9.5.2.2.5, will be revised to add LMA VEGP COL 18.2-2.
4. COLA Part 2, FSAR Chapter 1, Table 1.8-202, will be revised to add FSAR Subsection 9.5.2.2.5 to COL Item 18.2-2.
5. COLA Part 5, Emergency Plan, will be revised to add language to Appendix 7 of the VEGP 3 and 4 Emergency Plan as described below:

Add the following sentence at the end of Subsection A7A.1:

“The Emergency Operations Facility has been established consistent with NUREG 0696 guidelines.”
