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Docket Nos.: 52-025
52-026

ND-16-1135
10 CFR 50.90
10 CFR 52.63

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

Southern Nuclear Operating Company
Vogtle Electric Generating Plant Units 3 and 4
Response to Request for Additional Information Related to
Request for License Amendment and Exemption:
Passive Core Cooling System (PXS) Design Changes to Address Potential Gas Intrusion
(LAR-16-004S1)

Ladies and Gentlemen:

By letter dated May 5, 2016, Southern Nuclear Operating Company (SNC) submitted a request for a license amendment and exemption (LAR-16-004, SNC correspondence ND-16-0328). This LAR requested changes to the Updated Final Safety Analysis Report (UFSAR) in the form of departures from the incorporated plant-specific Design Control Document (PS-DCD) Tier 2 information, and involved changes to related plant-specific Tier 1 information, with corresponding changes to the associated COL Appendix C information concerning the design details of the safety-related passive core cooling system (PXS), the nonsafety-related normal residual heat removal system (RNS), and the nonsafety-related containment air filtration system (VFS). Pursuant to the provisions of 10 CFR 52.63(b)(1), an exemption from elements of the design as certified in the 10 CFR Part 52, Appendix D, design certification rule was also requested for the plant-specific DCD Tier 1 material departures. The Nuclear Regulatory Commission (NRC) staff issued Request for Additional Information (RAI) Letter No. 11, via letter dated July 14, 2016. Enclosure 4 to this letter provides the response to RAI Letter No. 11. Enclosures 1, 2, and 3 were provided with the original submittal of the LAR by letter dated May 5, 2016 [ADAMS Accession Number ML16126A276].

The supplemental information provided in this letter does not impact the scope or conclusions of the technical evaluation, regulatory evaluation (including the significant hazards consideration determination), or environmental considerations of the original LAR or exemption request.

This letter contains no regulatory commitments.

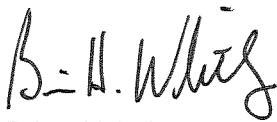
In accordance with 10 CFR 50.91, SNC is notifying the State of Georgia of this LAR supplement by transmitting a copy of this letter and enclosure to the designated State Official.

Should you have any questions, please contact Mr. Corey Thomas at (205) 992-5221.

Mr. Brian H. Whitley states that: he is the Regulatory Affairs Director of Southern Nuclear Operating Company; he 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



Brian H. Whitley

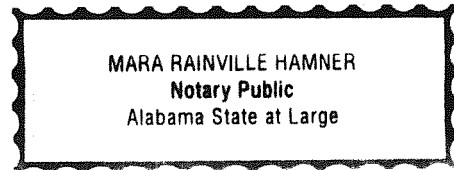
BHW/ACC/ljs

Sworn to and subscribed before me this 27 day of July, 2016

Notary Public: Mara Rainville Hamner

My commission expires: 2-18-2020

**My Commission Expires
February 18, 2020**



Enclosures: 1-3) Previously submitted with the original LAR-16-004 in SNC Letter ND-16-0328

Enclosure: 4) Vogtle Electric Generating Plant (VEGP) Units 3 and 4 – Response to NRC Request for Additional Information Letter No. 11 Related to LAR-16-004

cc:

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Southern Nuclear Operating Company

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Enclosure 4

Vogtle Electric Generating Plant Units 3 and 4

Response to NRC Request for Additional Information Letter No. 11 Related to LAR-16-004

(This enclosure contains three pages including this cover page)

Electronic Request for Additional Information (eRAI) Tracking No. 8661

Question 03.02.02-1:

The License Amendment Request LAR-16-004 for Vogtle Units 3 and 4 requires changes to the Updated Final Safety Analysis Report (UFSAR) and COL Appendix C and AP1000 DCD Tier 1 information. LAR-16-004, Section 2.4 describes the changes to the air filtration system (VFS). As stated in LAR-16-004 Enclosure 3 page 2 of 9, piping VFS-L832 is added to the containment purge discharge from containment line. UFSAR Figure 9.4.7-1 provides a simplified containment VFS. LAR-16-004 Section 2.4 states that VFS-L832 is a piping line located between the containment purge exhaust containment penetration and the parallel outside containment isolation valve VFS-PL-V010 and outside containment vacuum relief valves VFS-PL-V800A and VFS-PL-V800B. The licensee is requested to provide a mark-up to UFSAR Figure 9.4.7-1 to indicate the new piping VFS-L832 and its ASME Section III Code Quality Group classification.

Response to Question 03.02.02-1:

Figure 1 is an enlarged excerpt of UFSAR Figure 9.4.7-1 (Sheet 1 of 2), "Simplified Containment Air Filtration System Piping and Instrumentation Diagram (REF) VFS 001" which details the location of line VFS-L832. Line L832 is part of the CNS containment boundary design and being added to Tier 1 Table 2.2.1-2 to reflect current piping design of the VFS. The green highlighted line is the location of line L832. The ASME Section III Code Quality Group Classification is Class 2. Note that line L832 ends prior to valve VFS-PL-V010 due to a reducer not shown in the simplified figure. The continuation of the physical piping from the reducer to valve V010 is line VFS-L205 (highlighted in red) which is currently listed in Tier 1 Table 2.2.1-2.

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Enclosure 4

Response to NRC Request for Additional Information Letter No. 11 Related to LAR-16-004

Figure 1: Enlarged Excerpt from UFSAR Figure 9.4.7-1 (Sheet 1 of 2), "Simplified Containment Air Filtration System Piping and Instrumentation Diagram (REF) VFS 001"

