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DEC 11 2013

Docket Nos.: 52-025
52-026

ND-13-2483
10 CFR 50.90
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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
Request for License Amendment and Exemption:
Turbine Building Battery Room and Electrical Changes (LAR-13-007RS2) Supplement 2

Ladies and Gentlemen:

On July 10, 2013, via SNC letter ND-13-1042, in accordance with the provisions of 10 CFR 50.90, Southern Nuclear Operating Company (SNC), requested an amendment to the combined licenses (COLs) for Vogtle Electric Generating Plant (VEGP) Units 3 and 4 (License Numbers NPF-91 and NPF-92, respectively). The Nuclear Regulatory Commission (NRC) staff issued Request for Additional Information (RAI) Letter No. 1, also referred to as electronic RAI (eRAI) 7289, associated with this License Amendment Request (LAR), referred to as LAR-13-007, via electronic mail dated November 12, 2013 [ADAMS Accession No. ML13316A396]. This letter provides the response to RAI Letter No. 1 by revising information in Enclosure 3 of ND-13-1042. The revised information is provided as Enclosure 6 of the revised LAR.

The information provided in Enclosure 6 does not change the scope of, nor affect the Technical Evaluation or the conclusions of the Significant Hazards Consideration determination in the revised amendment request submitted on July 10, 2013. This letter contains no regulatory commitments.

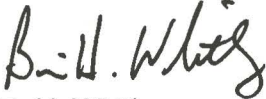
In accordance with 10 CFR 50.91, SNC is notifying the State of Georgia of this LAR supplement by transmitting a copy of this letter and enclosure to the designated State Official.

Should you have any questions, please contact Mr. Brian Meadors at (205) 992-7331.

Mr. B. H. Whitley states that he is the Regulatory Affairs Director 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



B. H. Whitley

BHW/WES/kms

Sworn to and subscribed before me this 11th day of December, 2013

Notary Public: Kristin Marie Seibert

My commission expires: August 16, 2016



Enclosure 6. Vogtle Electric Generating Plant (VEGP) Units 3 and 4 –Response to NRC Request for Additional Information Letter No. 1 Related to License Amendment Request (LAR) 13-007 (LAR-13-007RS2)

cc:

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Southern Nuclear Operating Company

ND-13-2483

Enclosure 6

**(Note that Enclosures 1, 2, 3, and 4 were provided with the revised LAR-13-007R
and Enclosure 5 was provided with LAR-13-007RS)**

Vogtle Electric Generating Plant (VEGP) Units 3 and 4

Response to NRC Request for Additional Information Letter No. 1

Related to

License Amendment Request (LAR)-13-007

(LAR-13-007RS2)

eRAI Tracking No. 7289

Question: 08.03.02-1

In letter ND-13-1042, related to Vogtle LAR-13-007R, dated July 10, 2013 (ML13192A216), Enclosure 3, pages 11 and 12, the applicant discusses the single spare battery bank with spare battery charger for the Class 1E and non-Class 1E DC systems. It is not clear whether the spare battery banks are the same equipment. You may want to utilize device-specific identification (e.g., EDS-DC-XX) in order to clarify the difference between the two.

SNC Response:

Vogtle LAR-13-007R identifies two “spare batteries,” (IDSS-DB-1A and IDSS-DB-1B) in the existing Class 1E dc and Uninterruptible Power Supply (UPS) System (IDS) spare battery bank which are supported by a single 250 Vdc charger (IDSS-DC-1). The LAR also identifies the proposed new Non- Class 1E dc and UPS System (EDS) spare battery bank (EDSS-DB-1A and EDSS-DB-1B) supported by two 125 Vdc load sharing dedicated EDS chargers (EDSS-DC-1 and EDSS-DC-2). The EDS spare battery bank is necessary because of the increase in EDS loads beyond the capacity of the existing IDS spare battery bank. The existing single IDS battery bank was added as a design simplification and economic based design consideration. Currently UFSAR Subsection 8.1.2 only provides discussion of the IDS spare battery bank, and the proposed EDS spare battery bank is discussed in UFSAR Subsection 8.3.2.1.2, with the EDS system.

The Vogtle LAR-13-007R Enclosure 3, pages 10 and 11, UFSAR Subsection 8.1.2, is a high level description of the electrical power systems. The seventh and eighth paragraphs describe the IDS configuration of interconnected equipment shown in UFSAR Figures 8.3.2-1 and 8.3.2-2. The eighth paragraph provides a proposed change in which the IDS spare battery bank (IDSS-DB-1A and IDSS-DB-1B) and charger (IDSS-DC-1) that support the IDS buses are no longer connectable to EDS. The proposed larger capacity EDS spare battery bank (EDSS-DB-1A and EDSS-DB-1B) and charger (EDSS-DC-1 and EDSS-DC-2) are completely independent and support the EDS buses. The EDS spare battery bank is not connectable to the IDS buses. The EDS is shown in Figure 8.3.2-3.

The following changes are proposed to clarify the question of ‘single spare battery’ versus ‘spare battery’:

Enclosure 3, page 11 of 35, Subsection 8.1.2:

The eighth paragraph is revised from:

A single spare Class 1E battery bank **with a spare charger** is provided for **both the** Class 1E ~~and non-Class 1E~~ battery systems. ~~and a separate spare charger is provided for each of the systems.~~ In order to preserve independence of each Class 1E dc system division, plug-in locking type disconnects are permanently installed to prevent connection of more than one battery bank to the spare. In addition, kirk-key interlock switches are provided to prevent transfer operation of more than one switchboard at a time. The spare

battery bank is located in a separate room and is capable of supplying power to the required loads on any battery being temporarily replaced with the spare.

To read:

~~A single An IDS spare Class 1E battery bank with a spare charger is provided for both the Class 1E and non-Class 1E battery systems. s. and a separate spare charger is provided for each of the systems.~~ In order to preserve independence of each Class 1E dc system division, plug-in locking type disconnects are permanently installed to prevent connection of more than one battery bank to the spare. In addition, kirk-key interlock switches are provided to prevent transfer operation of more than one switchboard at a time. The spare battery bank is located in a separate room and is capable of supplying power to the required loads on any battery being temporarily replaced with the spare.

Enclosure 3, page 12 of 35, Subsection 8.3.2.1.2:

The eighth paragraph is revised from:

A single spare battery bank with a spare battery charger is provided for the non-Class 1E dc and UPS system. In the case of a failure or unavailability of the normal battery bank and the battery charger, permanently installed cable connections allow the spare to be connected to the affected bus with kirk-key interlock switches. The kirk-key interlock switches permit connection of only one battery bank and battery charger at a time. The spare battery and the battery charger can also be utilized as a substitute when offline testing, maintenance, and equalization of an operational battery bank is desired. For EDS1 through EDS4, this is accomplished by opening the disconnect switch between two 125 Vdc battery cell strings, which together comprise the 250 Vdc spare battery.

To read:

An EDS spare battery bank with a spare battery charger is provided for the non-Class 1E dc and UPS system. In the case of a failure or unavailability of the normal battery bank and the battery charger, permanently installed cable connections allow the spare to be connected to the affected bus with kirk-key interlock switches. The kirk-key interlock switches permit connection of only one battery bank and battery charger at a time. The spare battery and the battery charger can also be utilized as a substitute when offline testing, maintenance, and equalization of an operational battery bank is desired. For EDS1 through EDS4, this is accomplished by opening the disconnect switch between two 125 Vdc battery cell strings, which together comprise the 250 Vdc spare battery.

Question: 08.03.02-2

Clarify if additional containment penetrations are needed to support the total capacity equipment increases that have been proposed for the EDS system to provide sufficient DC and AC power for the connected non-Class 1E loads during normal and off-normal conditions.

SNC Response:

Additional electrical penetration assemblies were previously added to containment as identified in SNC LAR-12-010 and approved in VEGP License Amendment No. 011. No additional EPAs are needed to support the total capacity equipment increases that have been proposed in SNC LAR-13-007R.