

August 29, 2011

Mr. Joseph A. (Buzz) Miller  
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SUBJECT: RESPONSE TO SOUTHERN NUCLEAR OPERATING COMPANY'S LETTER ON  
THE FINAL SAFETY EVALUATION REPORT FOR THE VOGTLE ELECTRIC  
GENERATING PLANT UNITS 3 AND 4 COMBINED LICENSE APPLICATION

Dear Mr. Miller:

In a letter dated August 5, 2011, the U.S. Nuclear Regulatory Commission (NRC) staff issued the final safety evaluation report (FSER) for the Vogtle Electric Generating Plant Units 3 and 4 (VEGP) combined license application (COLA) submitted by Southern Nuclear Operating Company (SNC) on March 28, 2008.

The NRC staff provided SNC the FSER 10 days in advance of its public release for the purpose of verifying that the FSER did not contain either factual errors or sensitive information that would be exempt from public disclosure. In a letter dated August 9, 2011, SNC identified a few minor discrepancies in the FSER and requested that NRC accordingly consider some revisions to the text. The summary and errata sheet enclosed with this letter documents the NRC staff's correction of the identified discrepancies. The FSER package can be accessed through the NRC's Agencywide Documents Access and Management System at Accession Number ML110450302, and this errata sheet shortly will be made available at that same location. Furthermore, in the near future, the NRC will publish the FSER as a NUREG-series document, and the changes identified in the errata will be integrated into that document.

J. A. Miller

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Should you have any questions regarding this letter or Enclosure, please contact Ravindra Joshi at (301) 415-6191 or by e-mail [Ravindra.Joshi@nrc.gov](mailto:Ravindra.Joshi@nrc.gov).

Sincerely,

**/RA/**

Jeffrey Cruz, Branch Chief  
AP1000 Projects Branch 1 (NWE1)  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-025  
52-026

Enclosures:  
As stated

cc w/o encls: See next page

J. A. Miller

- 2 -

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Sincerely,

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AP1000 Projects Branch 1 (NWE1)  
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As stated

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## **U.S. Nuclear Regulatory Commission Errata to the Final Safety Evaluation for the Vogtle Electric Generating Plant Units 3 and 4 Combined License Application**

### **A. Informational Corrections**

#### **Southern Nuclear Operating Company (SNC) Comment 1**

FSER Page 1-64, Section 1.5.5

Under the sub-heading, "Security Review for 10 CFR Part 70 Materials," the FSER states that the applicant's PSP for the protection of SNM has been marked as "Safeguards Information" pursuant to 10 CFR 2.390. The marking for "Safeguards Information" is pursuant to 10 CFR 73.21 and 73.22, rather than 10 CFR 2.390.

#### **Staff's Response**

The reference to 10 CFR 2.390 will be revised to 10 CFR 73.21 and 73.22.

#### **SNC Comment 2**

FSER Page 8-4, Section 8.1.4

The last paragraph of Section 8.1.4 states that FSAR Section 1.9.5.1.5 and 1.9.6 have been updated, including identification of Plant Wilson as a local power source. While these sections of the FSAR were updated, the update did not include identification of Plant Wilson as a local power source. In SNC letter ND-09-0671, dated May 15, 2009, SNC specifically stated that "While Plant Wilson could be made available to re-supply power to Units 3 or 4 following a loss of the grid, this capability has not been credited as an alternate ac (AAC) power source." This information was provided only in the letter and was not identified as material to be included in the FSAR.

#### **Staff's Response**

The staff agrees with the comment and will revise the first sentence of last paragraph of Section 8.1.4 of the FSER as follows:

"The NRC staff verified that VEGP COL FSAR Sections 1.9.5.1.5 and 1.9.6 have been updated to include the above-mentioned items."

In addition, the following statements regarding the Plant Wilson from the second paragraph of Page 8-4 (Section 8.1.4) will also be deleted.

"Plant Wilson is a six-unit combustion turbine electric generating facility with black start capability, located approximately 1 mile east of the VEGP site. Plant Wilson could be made available to re-supply power to Units 3 and 4 following a loss of the grid."

### **SNC Comment 3**

FSER Page B-192 and B-193, Appendix B

The last three letters in the Chronology listing appear to be from the SCANA-VCS docket rather than the SNC-VEGP docket.

### **Staff's Response**

Staff will revise Appendix B to the FSER by removing these three SCANA references.

## **B. Typographical or Editorial Corrections**

### **SNC Comment 4**

FSER Page 1-18, Section 1.4.2

Under the heading "Section 1.3 Comparisons with Similar Facility Designs," the FSER states that this section of the FSAR incorporates by reference Section 1.3 of the AP1000 DCD Revision 15, with no supplements. It should say Revision 19, with no supplements. Revision 19 is the referenced DCD.

### **Staff's Response**

Staff will revise Section 1.4.2 to correct the revision number of the AP1000 DCD.

### **SNC Comment 5**

FSER Page 1-18, Section 1.4.2

Under the heading "Section 1.4 Identification of Agents and Contractors," the FSER states that this section of the FSAR incorporates by reference Section 1.4 of the AP1000 DCD Revision 15. It should say Revision 19. Revision 19 is the referenced DCD.

### **Staff's Response**

Staff will revise Section 1.4.2 to correct the revision number of the AP1000 DCD.

### **SNC Comment 6**

FSER Page 1-20, Section 1.4.2

Under the heading "Section 1.7 Drawings and other Detailed Information," the FSER states that this section of the FSAR incorporates by reference Section 1.7 of the AP1000 DCD Revision 15. It should say that this section incorporates by reference Revision 19. Revision 19 is the referenced DCD.

### **Staff's Response**

Staff will revise Section 1.4.2 to correct the revision number of the AP1000 DCD.

### **SNC Comment 7**

FSEr Appendix A, Page A-2, Section A.1 for License Condition 1-1, item (b)(i).

The wording for proposed License Condition 1-1, item (b)(i) is not consistent with the similar proposed License Condition in FSEr Section 1.5.5, page 1-67.

### **Staff's Response**

Staff will revise Appendix A, Page A-2, License Condition 1-1 item (b)(i) to be consistent with the license condition as stated in FSEr section 1.5.5.

### **SNC Comment 8**

FSEr Page 14-32, Section 14.2.5.5, & Page A-10, Section A.1 for License Condition 14-3

The proposed wording for License Condition (14-3) states:

The licensee shall notify the Director of the NRO in writing when it determines that is has completed the design-specific testing identified below and confirmed that the test results are within the range of acceptable values predicted or otherwise confirm that the tested systems perform their specific functions in accordance with the FSAR:

The phrase "that is has" should read "that it has" for proper grammar.

### **Staff's response**

Staff will correct the typographical error, changing "is" to "it."

### **SNC Comment 9**

FSEr Page A-15, Section A.2

The proposed wording for the license states:

1. The licensee shall perform and satisfy the pipe rupture hazards analysis ITAAC defined in SER Table 2.5-1, "Pipe Rupture Hazards Analysis ITAAC."

Since the title of Table 2.5-1 is actually "Backfill ITAAC," it should read:

1. The licensee shall perform and satisfy the backfill ITAAC defined in SER Table 2.5-1, "Backfill ITAAC."

### **Staff Response**

Staff agrees with the comment and will revise the table accordingly.

**Errata Sheet for the Final Safety Evaluation Report for Combined Licenses for Vogtle  
Electric Generating Plant, Units 3 and 4**

FSER Section and Page Number	Description of Change
Section 1.4.2 (Page 1-18)	<p><b>Replace</b> “Section 1.3 of the VEGP COL FSAR, Revision 5, incorporates by reference Section 1.3, “Comparisons with Similar Facility Designs,” of the AP1000 DCD, Revision <u>15</u> with no supplements.”</p> <p><b>With</b> “Section 1.3 of the VEGP COL FSAR, Revision 5, incorporates by reference Section 1.3, “Comparisons with Similar Facility Designs,” of the AP1000 DCD, Revision <u>19</u> with no supplements.”</p>
Section 1.4.2 (Page 1-18)	<p><b>Replace</b> “Section 1.4 of the VEGP COL FSAR, Revision 5, incorporates by reference Section 1.4, “Identification of Agents and Contractors,” of the AP1000 DCD, Revision <u>15</u> and Section 1.4 of the VEGP ESP SSAR, Revision 5 with the following supplements.”</p> <p><b>With</b> “Section 1.4 of the VEGP COL FSAR, Revision 5, incorporates by reference Section 1.4, “Identification of Agents and Contractors,” of the AP1000 DCD, Revision <u>19</u> and Section 1.4 of the VEGP ESP SSAR, Revision 5 with the following supplements.”</p>
Section 1.4.2 (Page 1-20)	<p><b>Replace</b> “Section 1.7 of the VEGP COL FSAR, Revision 5, incorporates by reference Section 1.7, “Drawings and Other Detailed Information,” of the AP1000 DCD, Revision <u>15</u>, and Section 1.4 of the VEGP ESP SSAR, Revision 5 with the following supplements.”</p> <p><b>With</b> “Section 1.7 of the VEGP COL FSAR, Revision 5, incorporates by reference Section 1.7, “Drawings and Other Detailed Information,” of the AP1000 DCD, Revision <u>19</u>, and Section 1.4 of the VEGP ESP SSAR, Revision 5 with the following supplements.”</p>
Section 1.5.3.2, (Page 1-51)	<p><b>Delete</b> the following sentence from Section 1.5.3.2. “In addition, in October 2006 and October 2007, the NRC published a notice of application in the Aiken Standard, The Augusta Chronicle, and the True Citizen serving Burke and Waynesboro County.”</p>
Section 1.5.5 (Page 1-64)	<p><b>Replace</b> “The staff’s review of the applicant’s PSP for the protection of SNM of low strategic significance (LSS) includes information that has been marked as “Safeguards Information” by the applicant, pursuant to <u>10 CFR 2.390</u>.”</p> <p><b>With</b> “The staff’s review of the applicant’s PSP for the protection of SNM of low strategic significance (LSS) includes information that has been marked as “Safeguards Information” by the applicant, pursuant to <u>10 CFR 73.21 and 73.22</u>.”</p>

Section 8.1.4 (Page 8-4)	<p><b>Replace</b> “The NRC staff verified that VEGP COL FSAR Sections 1.9.5.1.5 and 1.9.6 have been updated to include the above-mentioned items including the identification of Plant Wilson as a local power source that could be made available to re-supply power to Units 3 and 4 following a loss of the grid in accordance with NUMARC-87-00.”</p> <p><b>With</b> “The NRC staff verified that VEGP COL FSAR Sections 1.9.5.1.5 and 1.9.6 have been updated to include the above-mentioned items.”</p> <p>In addition, the following statements regarding the Plant Wilson from the second paragraph of Page 8-4 (Section 8.1.4) will be deleted.</p> <p>“Plant Wilson is a six-unit combustion turbine electric generating facility with black start capability, located approximately 1 mile east of the VEGP site. Plant Wilson could be made available to re-supply power to Units 3 and 4 following a loss of the grid.”</p>
Section 14.2.5.5, (Page 14-32) and Appendix A, Section A.1 (Page A-10) for License Condition 14-3	<p><b>Replace</b> “The licensee shall notify the Director of the NRO in writing when it determines that <u>is</u> has completed the design-specific testing identified below and confirmed that the test results are within the range of acceptable values predicted or otherwise confirm that the tested systems perform their specific functions in accordance with the FSAR.”</p> <p><b>With</b> “The licensee shall notify the Director of the NRO in writing when it determines that <u>it</u> has completed the design-specific testing identified below and confirmed that the test results are within the range of acceptable values predicted or otherwise confirm that the tested systems perform their specific functions in accordance with the FSAR.”</p>
Appendix A, Section A.1, (Page A-2) License Condition 1-1, item (b)(i)	<b>Delete</b> the following words that appear at the end of item b)(i) “and that do not include natural uranium, depleted uranium and uranium hexafluoride.”
Appendix A, Section A.2, (Page A-15)	<b>Revise</b> ITAAC 1 to read as follows, “The licensee shall perform and satisfy the backfill ITAAC defined in SER Table 2.5-1, “Backfill ITAAC.”
Appendix B, Page B-192 and 193	<b>Delete</b> the last three listed letters (related to the SCANA-VCS Docket).
Appendix A, Section A.1, (Page A-6), proposed LC 6-2	<b>Delete</b> the words “the either” from the last sentence of the proposed License Condition 6-2.
Appendix A, Section A.1, (Page A-6), proposed LC 5-3	<b>Delete</b> the word “either” from the last sentence of the proposed License Condition 5-3.

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(Revised 08/09/2011)

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