

## PMVogtleCOLPEm Resource

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**From:** Christian Araguas  
**Sent:** Monday, October 20, 2008 7:48 PM  
**To:** wasparkm@southernco.com; AGAUGHTM@SOUTHERNCO.COM  
**Cc:** PMVogtleCOLPEm Resource; Stephanie Coffin  
**Subject:** RAI Letter No. 008 Related SRP Sections 2.3.1 and 2.3.5 for Vogtle Units 3 and 4  
**Attachments:** VOG-RAI-LTR-008.pdf

Wes/Amy,

Attached is RAI Letter No. 008 related SRP Sections 2.3.1 and 2.3.5 for Vogtle Units 3 and 4. The ADAMS accession number is ML082940631.

Christian Araguas  
Lead Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

**Hearing Identifier:** Vogtle\_COL\_Public  
**Email Number:** 18

**Mail Envelope Properties** (CB87FC66F95637428C5E0D066E756B6F8F045F512B)

**Subject:** RAI Letter No. 008 Related SRP Sections 2.3.1 and 2.3.5 for Vogtle Units 3 and 4  
**Sent Date:** 10/20/2008 7:47:41 PM  
**Received Date:** 10/20/2008 7:47:45 PM  
**From:** Christian Araguas

**Created By:** Christian.Araguas@nrc.gov

**Recipients:**

"PMVogtleCOLPEm Resource" <PMVogtleCOLPEm.Resource@nrc.gov>

Tracking Status: None

"Stephanie Coffin" <Stephanie.Coffin@nrc.gov>

Tracking Status: None

"wasparkm@southernco.com" <wasparkm@southernco.com>

Tracking Status: None

"AGAUGHTM@SOUTHERNCO.COM" <AGAUGHTM@SOUTHERNCO.COM>

Tracking Status: None

**Post Office:** HQCLSTR01.nrc.gov

| Files               | Size   | Date & Time           |
|---------------------|--------|-----------------------|
| MESSAGE             | 307    | 10/20/2008 7:47:45 PM |
| VOG-RAI-LTR-008.pdf | 127897 |                       |

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**

## **VoglecolRAIsPEm Resource**

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**From:** Christian Araguas  
**Sent:** Monday, October 20, 2008 7:34 PM  
**To:** VoglecolRAIsPEm Resource  
**Subject:** Request for Additional Information Letter No. 008 Related to SRP Sections 02.03.01 and 02.03.05 for the Vogtle 3 and 4 Combined License Application  
**Attachments:** VOG-RAI-LTR-008.doc

Christian Araguas  
Lead Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

**Hearing Identifier:** Vogtle\_COL\_eRAIs  
**Email Number:** 11

**Mail Envelope Properties** (CB87FC66F95637428C5E0D066E756B6F8F045F512A)

**Subject:** Request for Additional Information Letter No. 008 Related to SRP Sections 02.03.01 and 02.03.05 for the Vogtle 3 and 4 Combined License Application  
**Sent Date:** 10/20/2008 7:34:10 PM  
**Received Date:** 10/20/2008 7:34:12 PM  
**From:** Christian Araguas

**Created By:** Christian.Araguas@nrc.gov

**Recipients:**  
"VogtlecolRAIsPEm Resource" <VogtlecolRAIsPEm.Resource@nrc.gov>  
Tracking Status: None

**Post Office:** HQCLSTR01.nrc.gov

| Files               | Size  | Date & Time           |
|---------------------|-------|-----------------------|
| MESSAGE             | 149   | 10/20/2008 7:34:12 PM |
| VOG-RAI-LTR-008.doc | 53754 |                       |

**Options**  
**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

October 20, 2008

Mr. Joseph A. (Buzz) Miller  
Senior Vice President  
Southern Nuclear Operating Company  
P.O. Box 1295  
Birmingham, AL 35201

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 008 RELATED TO  
SRP SECTIONS 02.03.01 AND 02.03.05 FOR THE VOGTLE ELECTRIC  
GENERATING PLANT UNITS 3 AND 4 COMBINED LICENSE APPLICATION

Dear Mr. Miller:

By letter dated March 28, 2008, Southern Nuclear Operating Company (SNC), submitted its application to the U. S. Nuclear Regulatory Commission (NRC) for a combined license (COL) for two AP1000 advance passive pressurized water reactors pursuant to 10 CFR Part 52. The NRC staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within 30 days of the date of this letter. If changes are needed to the final safety analysis report, the staff requests that the RAI response include the proposed wording changes.

If you have any questions or comments concerning this matter, you may contact me for the Vogtle Electric Generating Plant combined license at 301-415-3637.

Sincerely,

**/RA/**

Christian Araguas  
Lead Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-025  
52-026

Enclosure:  
Request for Additional Information

CC: see next page

If you have any questions or comments concerning this matter, you may contact me for the Vogtle Electric Generating Plant combined license at 301-415-3637.

Sincerely,

/RA/

Christian Araguas  
Lead Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-025  
52-026  
eRAI Tracking No. 539 and 543

Enclosure:  
Request for Additional Information

Distribution:

|                     |                 |                        |
|---------------------|-----------------|------------------------|
| Public              | AHodgdon        | BHughes                |
| RidsNroDnrlNwe1     | SCoffin         | MComar                 |
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| JHoch               | CAraguas        | CCox                   |
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NRO-008

|        |          |           |           |           |
|--------|----------|-----------|-----------|-----------|
| OFFICE | RSAC/BC  | NWE1/PM   | OGC       | NWE1/L-PM |
| NAME   | CCox*    | CAraguas* | AHodgdon* | CAraguas* |
| DATE   | 10/02/08 | 10/07/08  | 10/07/08  | 10/20/08  |

\*Approval captured electronically in the electronic RAI system.

**OFFICIAL RECORD COPY**

**Request for Additional Information No. 1432**  
**Vogle**  
**Southern Nuclear Operating Co.**  
**Docket No. 52-0025 and 52-0026**  
**SRP Section: 02.03.01 - Regional Climatology**  
**Application Section: 2.3.1**

**QUESTIONS FROM SITING AND ACCIDENT CONSEQUENCE BRANCH (RSAC)**

02.03.01-3

The Westinghouse response to AP1000 DCD RAI-SRP2.3.1-RSAC-01 (on page 4 of ML081820722) states that maximum (minimum) normal temperature site characteristics are 1-percent (99-percent) seasonal exceedance values which are approximately equivalent to the annual 0.4-percent (99.6 percent) annual exceedance. Please revise the maximum and minimum normal temperature site characteristics in FSAR Table 2.0-201 accordingly.

02.03.01-4

Address the extreme frozen winter precipitation event and extreme liquid winter precipitation event as site characteristics in accordance with the Proposed Interim Staff Guidance (ISG) DC/COL-ISG-07, "Interim Staff Guidance on Assessment of Normal and Extreme Winter Precipitation Loads on the Roofs of Seismic Category I Structures" (ML081990438) and provide a basis discussion for the site characteristic values chosen.

**Request for Additional Information No. 1433**  
**Vogle**  
**Southern Nuclear Operating Co.**  
**Docket No. 52-0025 and 52-0026**  
**SRP Section: 02.03.05 - Long-Term Atmospheric Dispersion Estimates for Routine Releases**  
**Application Section: 2.3.5**

**QUESTIONS FROM SITING AND ACCIDENT CONSEQUENCE BRANCH (RSAC)**

02.03.05-2

The response to RAI 02.03.05-1 states that, based on the updated building dimensions, the X/Q values for the EAB and various receptor locations are bounded by those provided in the ESPA SSAR. Both the building cross sectional area and containment height decreased compared to the values presented in the ESPA SSAR. This should result in less building wake influence and subsequently higher X/Q values. Please provide clarification on how the X/Q values are less than those presented in the ESPA SSAR.