

## VoglecolRAIsPEm Resource

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**From:** Spicher, Terri  
**Sent:** Wednesday, May 26, 2010 4:01 PM  
**To:** Spicher, Terri; VoglecolRAIsPEm Resource  
**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 059 RELATED TO SRP SECTION 14.2 FOR THE VOGTLE ELECTRIC GENERATING PLANT UNITS 3 AND 4 COMBINED LICENSE APPLICATION  
**Attachments:** VOG-RAI-LTR-059.doc

*Terri Spicher*

Project Manager  
Office of New Reactors  
U.S. Nuclear Regulatory Commission  
301.415.1670

**Hearing Identifier:** Vogtle\_COL\_eRAIs  
**Email Number:** 60

**Mail Envelope Properties** (AF843158D8D87443918BD3AA953ABF780DD5959EFD)

**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 059 RELATED TO SRP SECTION 14.2 FOR THE VOGTLE ELECTRIC GENERATING PLANT UNITS 3 AND 4 COMBINED LICENSE APPLICATION

**Sent Date:** 5/26/2010 4:00:50 PM

**Received Date:** 5/26/2010 4:00:51 PM

**From:** Spicher, Terri

**Created By:** Terri.Spicher@nrc.gov

**Recipients:**

"Spicher, Terri" <Terri.Spicher@nrc.gov>

Tracking Status: None

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

Tracking Status: None

**Post Office:** HQCLSTR02.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	129	5/26/2010 4:00:51 PM
VOG-RAI-LTR-059.doc	50682	

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**

May 26, 2010

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 059 RELATED TO  
SRP SECTION 14.2 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 45 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 at 301-415-1670.

Sincerely,

**/RA/**

Terri L. Spicher, Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-025  
52-026  
eRAI Tracking No. 4717

Enclosure:  
Request for Additional Information

CC: see next page

If you have any questions or comments concerning this matter, you may contact me at 301-415-1670.

Sincerely,

**/RA/**

Terri L. Spicher, Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-025  
52-026  
eRAI Tracking No. 4717

Enclosure:  
Request for Additional Information

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NRO-002

OFFICE	EMB1/BC	NWE1/PM	OGC	NWE1/L-PM
NAME	JPeralta*	TSpicher*	AHodgdon*	RJoshi *
DATE	5/6/10	5/10/10	5/10/10	5/11/10

\*Approval captured electronically in the electronic RAI system.

**OFFICIAL RECORD COPY**

Request for Additional Information No. 4717 Revision 0

5/26/2010

Vogle

Southern Nuclear Operating Co.

Docket No. 52-0025 and 52-0026

SRP Section: 14.02 - Initial Plant Test Program - Design Certification and New License Applicants

Application Section: Section 14.2.8, Test Program Schedule

**QUESTIONS for Quality and Vendor Branch 1 (AP1000/EPR Projects) (CQVP)**

**14.02-2**

The NRC Staff has identified the following post-COL item license conditions in FSAR Section 14.2. Please inform the NRC staff as to whether or not the proposed license condition is considered appropriate to support the Vogtle Units 3 and 4 COL.

Additional License Condition for the Power-Ascension Test Phase

Certain milestones within the startup testing phase of the initial test program (i.e., pre-critical testing, criticality testing, and low-power testing) will need to be controlled through license conditions to ensure that relevant test results are reviewed, evaluated, and approved by the designated licensee management before proceeding with the power ascension test phase. Accordingly, the licensee will provide written notification to the Director of the Office of New Reactors once it determines that:

- (a) It has completed all pre-critical and criticality testing and confirmed that the test results are within the range of values predicted in the acceptance criteria in the facility's FSAR. Upon submission of this notification, the licensee will conduct low-power testing and operate the facility at reactor steady-state core power levels, not in excess of [XX] megawatts thermal (5-percent power), in accordance with the conditions specified in the license.
- (b) It has completed all low-power testing and confirmed that the test results are within the range of values predicted in the acceptance criteria in the facility's FSAR. Upon submission of this notification, the licensee will conduct power ascension testing and operate the facility at reactor steady-state core power levels, not in excess of [XX] megawatts thermal (100-percent power), in accordance with the conditions specified in the license.