

PMVogtleCOLPEm Resource

From: Joshi, Ravindra
Sent: Thursday, November 13, 2008 9:19 AM
To: Amy Aughtman; Wes Sparkman
Cc: VogtleCOL Resource
Subject: RAI letter number 012 related to SRP section 6.4 for Vogtle units 3 and 4
Attachments: VOG-RAI-LTR-012.pdf

To All,

Attached is RAI letter No.012 related to SRP Section 6.4 for the Vogtle Units 3 and 4. The ADAMS Accession number is ML083180071.

Ravi Joshi
Project Manager
NRO/DNRL/NWE1
US NRC
301-415-6191

Hearing Identifier: Vogtle_COL_Public
Email Number: 143

Mail Envelope Properties (CEEA97CC21430049B821E684512F6E5EADC8289F6B)

Subject: RAI letter number 012 related to SRP section 6.4 for Vogtle units 3 and 4
Sent Date: 11/13/2008 9:19:09 AM
Received Date: 11/13/2008 9:19:01 AM
From: Joshi, Ravindra

Created By: Ravindra.Joshi@nrc.gov

Recipients:

"VogtleCOL Resource" <VogtleCOL.Resource@nrc.gov>
Tracking Status: None
"Amy Aughtman" <agaughtm@southernco.com>
Tracking Status: None
"Wes Sparkman" <wasparkm@southernco.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	243	11/13/2008 9:19:01 AM
VOG-RAI-LTR-012.pdf	126721	

Options

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

VoglecolRAIsPEm Resource

From: Ravindra Joshi
Sent: Thursday, November 13, 2008 8:28 AM
To: VoglecolRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 012 RELATED TO SRP SECTION 6.4 FOR THE VOGTLE ELECTRIC GENERATING PLANT UNITS 3 AND 4 COMBINED LICENSE APPLICATION
Attachments: VOG-RAI-LTR-012.doc

Hearing Identifier: Vogtle_COL_eRAIs
Email Number: 15

Mail Envelope Properties (CEEA97CC21430049B821E684512F6E5EADC8289E71)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 012 RELATED TO SRP SECTION 6.4 FOR THE VOGTLE ELECTRIC GENERATING PLANT UNITS 3 AND 4 COMBINED LICENSE APPLICATION

Sent Date: 11/13/2008 8:27:57 AM

Received Date: 11/13/2008 8:27:55 AM

From: Ravindra Joshi

Created By: Ravindra.Joshi@nrc.gov

Recipients:

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

Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	3	11/13/2008 8:27:55 AM
VOG-RAI-LTR-012.doc	52218	

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

November 13, 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. 012 RELATED TO
SRP SECTION 6.4 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 at 301-415-6191 or you may contact Christian Araguas, the lead project manager for the Vogtle Electric Generating Plant combined license at 301-415-3637.

Sincerely,

/RA/

Ravindra G. Joshi, 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 at 301-415-6191 or you may contact Christian Araguas, the lead project manager for the Vogtle Electric Generating Plant combined license at 301-415-3637.

Sincerely,

/RA/

Ravindra G. Joshi, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-025
52-026
eRAI Tracking No. 1351

Enclosure:
Request for Additional Information

Distribution:

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NRO-002

OFFICE	SPCV/BC	NWE1/PM	OGC	NWE1/L-PM
NAME	CJackson*	RJoshi*	AHodgdon*	CAraguas*
DATE	09/26/08	09/29/08	10/14/08	11/03/08

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Vogle
Southern Nuclear Operating Co.
Docket No. 52-0025 and 52-0026
SRP Section: 06.04- Control Room Habitability System
Application Section: 6.4

QUESTION FROM Containment and Ventilation Branch 1 (SPCV)

06.04-1

- a. The capability of the control room habitability systems to maintain a suitable environment for prolonged occupancy throughout the toxic gas release, as well as the other events identified in Chapter 15 is based on the AP1000 assumption of a maximum of 11 operators in the control room. Do plant procedures specify the maximum number of operators allowed in the control room in circumstances when the habitability systems are intended to protect the control room occupants?
- b. VEGP COL 6.4-1 under section 6.4.4.2 states "During a toxic gas emergency, the control room operators have the option of manually actuating the emergency habitability system." Under what postulated hazardous chemical release scenarios does Vogle anticipate using this option versus taking other possible actions such as donning a respirator and protective clothing?

Since it appears no chemical detection instruments are available, the operators will rely on using their sense of smell to detect hazardous chemicals. Please specify what actions will occur if a postulated hazardous chemical concentration in the control room is at or above the odor detection threshold. For example, Vogle evaluates Hydrazine concentration in the control room at 9.5 ppm (FSAR Section 2.2.3.2.3.1). Hydrazine has an odor detection threshold of 3.7 ppm. What response is expected by the Operators? Explain how this response assures protection for the operator against postulated chemical releases.

- c. In section 6.4.4.2 Toxic Gas Habitability Analysis, provide a summary statement that communicates the results of Toxic Chemical Habitability Analysis - to include, site specific onsite chemicals, and offsite chemicals. State whether these sources represent a toxic hazard to control room personnel.