VogtlecolRAIsPEm Resource

From: Habib, Donald
Sent: Friday, February 05, 2010 8:08 AM
To: VogtlecolRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 048 RELATED TO SRP SECTION 6.4 FOR THE VOGTLE ELECTRIC GENERATING PLANT, UNITS 3 AND 4 COMBINED LICENSE APPLICATION
Attachments: VOG-RAI-LTR-048.doc

Hearing Identifier: Vogtle_COL_eRAIs
Email Number: 50

Mail Envelope Properties (E3D0DF334F617344BE38EB00C881B1B30A41B956ED)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 048 RELATED TO SRP SECTION 6.4 FOR THE VOGTLE ELECTRIC GENERATING PLANT, UNITS 3 AND 4 COMBINED LICENSE APPLICATION
Sent Date: 2/5/2010 8:07:55 AM
Received Date: 2/5/2010 8:07:57 AM
From: Habib, Donald

Created By: Donald.Habib@nrc.gov

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

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	3	2/5/2010 8:07:57 AM
VOG-RAI-LTR-048.doc	51822	

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

February 5, 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. 048 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 advanced 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 301-415-1035 or you may contact Ravi Joshi, the lead project manager for the Vogtle Electric Generating Plant combined license application at 301-415-6191.

Sincerely,

/**RA**/

Donald Habib, 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

If you have any questions or comments concerning this matter, you may contact me at 301-415-1035 or you may contact Ravi Joshi, the lead project manager for the Vogtle Electric Generating Plant combined license application at 301-415-6191.

Sincerely,

/**RA**/

Donald Habib, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-025
52-026
eRAI Tracking No. 4281

Enclosure:
Request for Additional Information

Distribution:

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NRO-002

OFFICE	CHPB/BC	NWE1/PM	OGC	NWE1/L-PM
NAME	MSnodderly *	DHabib *	PMoulding *	RJoshi *
DATE	1/25/10	1/26/10	1/26/10	1/26/10

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

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

QUESTIONS for Containment and Ventilation Branch 1 (SPCV)

06.04-02

1. Provide data to facilitate the staff's confirmatory analysis.

   To assure the control room habitability per GDC 19 during a hypothetical accidental release of methoxypropylamine and ammonium bisulfite, the staff requests the following chemical data for confirmatory analysis with respect to these two chemicals (the applicant has specified these two chemicals as 60% aqueous solution):

   Vapor Pressure, Boiling Point, Critical Pressure, Critical Temperature, Density (gas), Flash Point, Freezing Point, Heat Capacity (gas, constant pressure), Heat Capacity (liquid, constant pressure), Molecular Weight, Specific Gravity, Heat of Vaporization

   Provide references or bases (e.g. chemical specification from vendor, formula, etc.) to support the above chemical data and the 60% aqueous solution assumption.

06.04-03

1. Justify analysis methodology and information.

   The applicant used the ALOHA and TOXDISP methodologies to perform the chemical release analysis. Provide the following for review:

   a. Information and data that links ALOHA and TOXDISP from chemical evaporation to concentration in control room,
   b. Justification of the TOXDISP results of 10E-37 for stability class F, which the staff estimates to be greater when HABIT is used,
   c. The cross-sectional area of the building structure projected on a plane perpendicular to the wind direction,
   d. Justification of the “Urban or Forest” assumption for ground roughness as input in ALOHA (such as by reference to design features described in the FSAR).

2. Justify the data of air exchange per hour used in the analysis and correct it in the FSAR.

   The data for air exchange per hour used in the analysis are not the same as the data shown in the FSAR (e.g. 0.391 in Section 2.2.3). Provide:

   a. Calculation details for the analysis data,
   b. Revision of the data shown in the FSAR, so that it is consistent with the analysis data.