

VoglecolRAIsPEm Resource

From: Comar, Manny
Sent: Wednesday, September 30, 2009 11:54 AM
To: VoglecolRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 040 RELATED TO SRP
SECTION 19.0 0 FOR THE VOGTLE ELECTRIC GENERATING PLANT UNITS 3 AND 4
COMBINED LICENSE APPLICATION
Attachments: VOG-RAI-LTR-040_RAI_3512.doc

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Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 040 RELATED TO
SRP SECTION 19.0 0 FOR THE VOGTLE ELECTRIC GENERATING PLANT UNITS 3 AND 4
COMBINED LICENSE APPLICATION

Sent Date: 9/30/2009 11:53:35 AM

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From: Comar, Manny

Created By: Manny.Comar@nrc.gov

Recipients:

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

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September 30, 2009

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. 040 RELATED TO
SRP SECTION 19.0 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 301-415-3863 or you may contact Ravindra Joshi, the lead project manager for the Vogtle Electric Generating Plan combined license at 301-415-6191.

Sincerely,

/RA/

Manny Comar, 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 301-415-3863 or you may contact Ravindra Joshi, the lead project manager for the Vogtle Electric Generating Plan combined license at 301-415-6191.

Sincerely,

/RA/

Manny Comar, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-025
52-026
eRAI Tracking No. 3512

Enclosure:
Request for Additional Information

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NAME	LMrowca*	MComar*	AHodgdon *	RJoshi*
DATE	8/11/09	8/11/09	9/11/09	9/11/09

*Approval captured electronically in the electronic RAI system.

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Request for Additional Information No. 3512

Vogtle
Southern Nuclear Operating Co.
Docket No. 52-0025 and 52-0026
SRP Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation
Application Section: 19.55

QUESTIONS from PRA Licensing, Operations Support and Maintenance Branch 1 (AP1000/EPR Projects) (SPLA)

19-10

The Vogtle Electric Generating Plant (VEGP) ground motion response spectra (GMRS) presented in Final Safety Analysis Report (FSAR) Section 3.7 exceed the certified design response spectra (CSDRS) at certain frequencies. These exceedances and related soil-structure interaction (SSI) were evaluated by the applicant in both the FSAR and in the Site Safety Analysis Report (SSAR) for the VEGP early site permit (ESP).

The staff observes that the seismic margins evaluation in the AP1000 probabilistic risk assessment (Chapter 55, Revision 6, available via Agencywide Documents Access and Management System (ADAMS) Accession No. ML040690501) states the following:

It will be necessary for a COL (combined operating license) applicant to demonstrate that the seismic response is equal to or less than that used in the calculation of the HCLPF [high confidence of low probability of failure] values, and to evaluate the potential for soil liquefaction using the site specific conditions. This will ensure a reserve margin that exceeds a 0.5g seismic level.

The Westinghouse response to RAI-SRP19.0-SPLA-22 dated July 22, 2009, states that a revised response to OI-SRP19.0-SPLA-12 "will reflect HCLPF values for the soil sites as well as the hard rock sites." It is unclear whether this response will bound the exceedances identified in the VEGP FSAR.

The staff requests that the applicant demonstrate, given the CSDRS exceedances presented by the applicant, that VEGP will have adequate seismic margin as described in the staff requirements memorandum (SRM) for SECY-93-087, "Policy, Technical, and Licensing Issues Pertaining to Evolutionary and Advanced Light-Water Reactor Designs," dated July 21, 1993.