

VoglecolRAIsPEm Resource

From: Jaffe, David
Sent: Tuesday, December 02, 2014 2:05 PM
To: VoglecolRAIsPEm Resource
Subject: LAR 14-009 RAI
Attachments: VOG-LAR-14009-RAI-LTR-001.doc

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From: Jaffe, David

Created By: David.Jaffe@nrc.gov

Recipients:
"VogtlecolRAIsPEm Resource" <VogtlecolRAIsPEm.Resource@nrc.gov>
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December 02, 2014

Mr. B. H. Whitley, Director
Regulatory Affairs
Southern Nuclear Operating Company, Inc.
42 Inverness Center Parkway, B237
Birmingham, AL 35242

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 01 RELATED TO
LICENSE AMENDMENT REQUEST (LAR 14-009) FOR THE VOGTLE ELECTRIC
GENERATING PLANT UNITS 3 AND 4: COMPRESSED AND INSTRUMENT AIR
SYSTEM HIGH PRESSURE AIR SUBSYSTEM CHANGES (TAC NO. RP9498)

Dear Mr. Whitley:

In accordance with the provisions of 10 CFR 50.90, by letter dated August 14, 2014, Southern Nuclear Operating Company (SNC) submitted a license amendment and exemption request (LAR) 14-009, Compressed and Instrument Air System High Pressure Air Subsystem Changes, to the U. S. Nuclear Regulatory Commission (NRC) for its Vogtle Electric Generating Plant (VEGP) Units 3 and 4 Combine licenses (Licenses Nos.NPF-91 and NPF-92, respectively). The NRC staff is performing a detailed review of this LAR to enable the staff to reach a conclusion on the safety of the proposed LAR.

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 301-415-1439 or david.jaffe@nrc.gov.

Sincerely,

/RA/

David H. Jaffe, Senior Project Manager
Licensing Branch 4
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-025
52-026
eRAI Tracking No. 7769

Enclosure:
Request for Additional Information

CC: see next page

If you have any questions or comments concerning this matter, you may contact me at 301-415-1439 or david.jaffe@nrc.gov.

Sincerely,

/RA/

David H. Jaffe, Senior Project Manager
Licensing Branch 4
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-025
52-026
eRAI Tracking No. 7769

Enclosure:
Request for Additional Information

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NAME	JZimmerman*	DJaffe*	RJoshi *
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Request for Additional Information 01

LAR 14-009

Application Title: VEGP Units 3 and 4 - LARs

Southern Nuclear Operating Co.

Docket No. 52-025 and 52-026

Review Section: 08.02 - Offsite Power System

QUESTIONS

The AP1000 passive reactor design has been granted a partial exemption to the requirement of GDC 17 for two physically independent offsite circuits, by providing safety-related passive safety systems for core cooling and containment integrity. However, one offsite power source with sufficient capacity and capability from the transmission network must be provided to power the plant systems under normal, abnormal, and accident conditions.

To determine Vogtle Electric Generating Plant (VEGP) Units 3 and 4, compliance with GDC 17 requirements for offsite power systems, the NRC staff has the following questions regarding the main generator circuit breaker.

1- In Enclosure 1, Section 2 of the license amendment request (LAR), the licensee stated that the generator circuit breaker (GCB) is capable of carrying and interrupting the normal load current and interrupting the maximum available root mean square (RMS) symmetrical and asymmetrical fault current produced by the main generator or the sum of the bolted three-phase fault currents associated with the plant motor house loads and the switchyard. However, the staff could not find supporting information that demonstrates the capacity and capability of the GCB.

Please provide a detailed summary of the evaluation, including applicable supporting technical references, that shows that the SF6 gas type GCB ratings and capabilities are consistent with the conditions as defined in Institute of Electrical and Electronics Engineers Standard C37.013, "Standard for AC High Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis," and meet the performance tests and capabilities as stated in NUREG-0800, Section 8.2, Appendix A.

2- In Enclosure 1, Section 2 of the LAR, the licensee stated that changing from an air-blast to a SF6 gas type GCB does not adversely affect any GCB function.

Please describe the functional and operational requirements, including surveillance and maintenance, that are in place to ensure that the SF6 gas type GCB and its support systems will perform their intended design functions.