

February 27, 2008

Mr. Tom E. Tynan
Vice President - Vogtle
Southern Nuclear Operating Company, Inc.
7821 River Road
Waynesboro, GA 30830

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
VOGTLE ELECTRIC GENERATING PLANT, UNITS 1 AND 2, LICENSE
RENEWAL APPLICATION, SECTION 4.2

Dear Mr. Tynan:

By letter dated June 28, 2007, Southern Nuclear Operating Company, Inc., submitted an application pursuant to 10 CFR Part 54, to renew the operating licenses for Vogtle Electric Generating Plant, Units 1 and 2, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review. Further requests for additional information may be issued in the future.

Items in the enclosure were discussed with Chalmer Myer, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-3191 or by e-mail at dja1@nrc.gov.

Sincerely,

/RA/

Donnie J. Ashley, Sr. Project Manager
License Renewal Branch A
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-424 and 50-425

Enclosure:
As stated

cc w/encl: See next page

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VOGTLE ELECTRIC GENERATING PLANT (VEGP), UNITS 1 AND 2
LICENSE RENEWAL APPLICATION (LRA)
REQUEST FOR ADDITIONAL INFORMATION (RAI)

The Vessels & Internals Integrity Branch has compared the information provided by the applicant related to the time limited aging analyses of reactor vessels of the Vogtle Nuclear Plant, Units 1 and 2 and the information provided in the licensee's measurement uncertainty recapture (MUR) power uprate submittal. The staff has determined that there may be some inconsistencies between the data submitted for the power uprate and the license renewal application.

RAI-4.2.1-04

We have reviewed the information in Table 4.2.1-1 "Summary of EOL Beltline Calculated Neutron Fluence Projections" on page 4.2-2 of the Application for License Renewal (LRA) and have compared it with the information shown on pages 6-12 and 6-14 of "Westinghouse Energy Systems, Report WCAP-16736-P, Revision 1, Vogtle Electric Generating Plant Measurement Uncertainty Recapture Power Uprate Program Licensing Report," dated May 2007 (WCAP-16736) and have noted some inconsistencies. Table 4.2.1-1 of the LRA shows a surface fluence of 3.20×10^{19} n/cm² (E>1.0 MeV) for VEGP, Unit 1 and 3.02×10^{19} n/cm² (E>1.0 MeV) for VEGP, Unit 2, whereas Table 6.1.2-5 on page 6-12 of WCAP-16736 shows a surface fluence of 3.24×10^{19} n/cm² (E>1.0 MeV) for VEGP, Unit 1 and Table 6.1.2-7 on page 6-14 of WCAP-16736 shows a surface fluence of 3.06×10^{19} n/cm² (E>1.0 MeV) for VEGP, Unit 2.

Do the fluences of Table 4.2.1-1 of the LRA which show surface fluences of 3.20×10^{19} n/cm² (E>1.0 MeV) for VEGP, Unit 1 and 3.02×10^{19} n/cm² (E>1.0 MeV) for VEGP, Unit 2 include the 1.7% power uprate? If not? Why not? This power uprate should be considered for the license renewal period.

RAI-4.2.1-05

The third paragraph on page 4.2-1 of the LRA, which starts, "For VEGP, 56 EFPY, is a..." appears to address the 1.7% MUR power uprate, however; it is unclear if this paragraph applies to Unit 1, Unit 2, or both units. Please clarify this paragraph as to which unit it applies to and provide data for the MUR power uprate for both units.

RAI-B.3.25

Table 5.3.1-9 of the VEGP-FSAR-5, Rev. 13, dated April 2006, shows an approximate capsule fluence of 2.98×10^{19} n/cm² (E>1.0 MeV) for Capsule W of VEGP, Unit 2. This fluence value is less than the value shown in Table 6.1.2-7 on page 6-14 of WCAP-16736 which shows a surface fluence of 3.06×10^{19} n/cm² (E>1.0 MeV) for VEGP, Unit 2. Please clarify this since the license renewal capsule is to be withdrawn at a fluence that is not less than once nor greater than twice the peak EOL fluence of the license renewal term (60 years).

ENCLOSURE

Letter to T. Tynam from D. Ashley, dated February 27, 2008

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Vogtle Electric Generating Plant, Units 1
and 2

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