

November 5, 2014

Mr. Ronald A. Jones, Vice President  
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South Carolina Electric & Gas Company  
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Mr. B. L. Ivey, Vice President  
Regulatory Affairs  
Southern Nuclear Operating Company, Inc.  
40 Inverness Center Parkway, B022  
Birmingham, AL 35242

SUBJECT: REQUEST FOR SUBMITTAL OF UPDATED GROUND MOTION SPECTRA AND  
FOUNDATION INPUT RESPONSE SPECTRA

Dear Messrs. Jones and Ivey:

The purpose of this letter is to request that you submit updated Ground Motion Response Spectra and Foundation Input Response Spectra (FIRS) for Vogtle Electric Generating Plant Units 3 and 4 and Virgil C. Summer Nuclear Station Units 2 and 3.

Following the Fukushima accident in Japan in March 2011, and the subsequent U.S. Nuclear Regulatory Commission's (NRC) Near-Term Task Force recommendations, the NRC's March 12, 2012 letter, regarding "...Recommendations 2.1, 2.3, and 9.3 of the Near Term Task Force Review of Insights from the Fukushima Dai-ichi Accident," requested nuclear power reactor licensees and holders of construction permits in active or deferred status to reassess seismic hazards at their sites using the most recent seismic source models (NUREG-2115, "Central and Eastern United States [CEUS] Seismic Source Characterization for Nuclear Facilities").

Please provide an updated Ground Motion Response Spectra and FIRS, using (1) NUREG-2115, (2) the most recent Electric Power Research Institute ground motion models for the CEUS, and (3) a site response analysis that appropriately considers the uncertainty in the subsurface soil and or rock properties beneath the plant for Vogtle Electric Generating Plant Units 3 and 4 and Virgil C. Summer Nuclear Station Units 2 and 3. Your submittals should describe if the updated FIRS are bounded by the AP1000 Certified Seismic Design Response Spectra. If the FIRS are not bounded describe whether there is margin between the FIRS and the AP1000 Review Level Earthquake from the seismic margin assessment in the Updated Final Safety Analysis Report. In addition, please describe any exceedances from these comparisons and the frequency range where they occur and whether there is sufficient seismic capacity to bound the effects on in-structure response spectra.

R. A. Jones  
B. L. Ivey

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Providing the subject information is voluntary and is requested within 30 days after receipt of this letter. If your evaluations of the information are still in progress please provide the status of the evaluations and the expected schedule for completing the evaluations and submitting the information within 30 days after receipt of this letter.

If you have any questions, please contact David Jaffe at (301) 415-1439 or David.Jaffe@nrc.gov.

Sincerely,

***/RA Mark Delligatti for:/***

Frank Akstulewicz, Director  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos.: 52-025  
52-026  
52-027  
52-028

cc: See next page

R. A. Jones  
B. L. Ivey

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Docket Nos.: 52-025  
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cc: See next page

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NRO-002

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(Revised 09/11/2014)

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(Revised 07/23/2014)

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