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10 CFR 50.46

U.S. Nuclear Regulatory Commission  
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Southern Nuclear Operating Company  
Vogtle Electric Generating Plant Units 3 and 4  
10 CFR 50.46 Thirty Day Report

Ladies and Gentlemen:

The purpose of this letter is to provide a required thirty day report in accordance with 10 CFR 50.46, Acceptance Criteria for Emergency Core Cooling Systems for Light-Water Nuclear Power Reactors, paragraph (a)(3)(iii), for the Vogtle Electric Generating Plant (VEGP) Units 3 and 4 combined licenses (COLs), License Nos. NPF-91 and NPF-92, respectively.

On June 13, 2012, Westinghouse Electric Company (WEC) submitted a thirty day report (letter number DCP\_NRC\_003214) to document the effects of fuel thermal conductivity degradation (TCD) and peaking factor burndown on the Large Break Loss-of-Coolant Accident (LBLOCA) Analysis of Record for the AP1000 Standard Plant Design. A summary of the updated peak cladding temperature (PCT) allocations and their bases including a proposed schedule for re-analysis of the LBLOCA were provided in the WEC report.

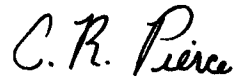
Southern Nuclear Operating Company's (SNC's) Updated Final Safety Analysis Report (UFSAR) for VEGP Units 3 and 4 incorporates the Generic AP1000 Design Control Document (DCD), as modified by departures; and thus, utilizes the peak cladding temperature calculations performed by WEC. Therefore, the WEC thirty day report and WEC reanalysis schedule are also applicable to the VEGP Units 3 and 4 COLs. Prior to this report, the most recent 10 CFR 50.46 report for VEGP Units 3 and 4 was provided to the NRC on April 6, 2012 (SNC Letter ND-12-0696).

D09Z  
NRD

If there are any questions regarding this report, please contact Mr. Wes Sparkman at (205) 992-5061.

Respectfully submitted,

SOUTHERN NUCLEAR OPERATING COMPANY

A handwritten signature in black ink that reads "C. R. Pierce". The signature is written in a cursive style with a large, prominent "P" and "C".

C. R. Pierce

CRP/GAB/dmw

cc: Southern Nuclear Operating Company

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