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April 12, 2011

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555-0001


Subject: Duke Energy Carolinas, LLC (Duke Energy)  
William States Lee III Nuclear Station - Docket Nos. 52-018 and 52-019  
AP1000 Combined License Application for the  
William States Lee III Nuclear Station Units 1 and 2  
10 CFR 50.46 Annual Report  
Ltr # WLG2011.04-04

The purpose of this letter is to provide a required report in accordance with 10 CFR 50.46, "Acceptance Criteria for Emergency Core Cooling Systems for Light-Water Nuclear Power Reactors" for the combined license (COL) application submitted for William States Lee III (WSL) Nuclear Station.

On March 15, 2011, Westinghouse Electric Company, LLC (WEC) submitted to the NRC their annual report required by 10 CFR 50.46 (letter DCP\_NRC\_003144, "10 CFR 50.46 Annual Report for the AP1000 Standard Plant Design"). Attachment 1 of the WEC letter contains the analysis required by 10 CFR 50.46. As stated in that letter, there are no additional Best Estimate LOCA (BELOCA) model changes that affect the temperature calculation to the items reported in the last 10 CFR 50.46 report documented in letter DCP\_NRC\_002824, dated March 18, 2010.

Duke Energy's COL application for the proposed WSL Nuclear Station Units 1 and 2 incorporates by reference the AP1000 design control document (DCD), and thus, utilizes the peak cladding temperature calculations performed by WEC. Therefore, the WEC report is also applicable to the WLS AP1000 COL application.

If you have any questions or need any additional information, please contact Peter Hastings, Nuclear Plant Development Licensing Manager, at (980) 373-7820.

Sincerely,  


Ronald A. Jones  
Senior Vice President  
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Brian Hughes, Senior Project Manager, DNRL