

June 7, 2011

MEMORANDUM TO: Dr. Allen Fetter, Acting Branch Chief  
Environmental Projects Branch 3  
Division of Site and Environmental Reviews  
Office of New Reactors

FROM: Sarah L. Lopas, Project Manager */RA/*  
Environmental Projects Branch 3  
Division of Site and Environmental Reviews  
Office of New Reactors

SUBJECT: SUMMARY OF TELECONFERENCE HELD ON MAY 3, 2011,  
BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND  
DUKE ENERGY CAROLINAS, LLC, REGARDING THE WILLIAM  
STATES LEE III NUCLEAR STATION, UNITS 1 AND 2 COMBINED  
LICENSE APPLICATION

The U.S. Nuclear Regulatory Commission (NRC or the staff), NRC contractor representatives and representatives of Duke Energy Carolinas, LLC (Duke), participated in a telephone conference on May 3, 2011, regarding the William States Lee III Nuclear Station, Units 1 and 2 combined license application environmental review.

The purpose of the teleconference was to clarify portions of Duke's response to a request for additional information (RAI), RAI 128, regarding an analysis of hybrid wet-dry cooling as a potential alternative to the proposed Make-Up Pond C. By accessing the NRC's Agencywide Documents Access and Management System (ADAMS), the RAI response, dated October 29, 2010, (ML103070311), the supplemental responses dated December 17, 2010, and January 26, 2011, (ML103550032 and ML110310017, respectively), and the November 17, 2010, NRC public teleconference that discussed RAI 128 (ML103630488), can be viewed. ADAMS is accessible at <http://www.nrc.gov/reading-rm/adams.html>. Persons who do not have access to ADAMS or who encounter problems in accessing documents located in ADAMS should contact the NRC's Public Document Room staff by dialing the toll free telephone number 1-800-397-4209, the local telephone number 301-415-4737, or via e-mail to [PDR.Resource@nrc.gov](mailto:PDR.Resource@nrc.gov).

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The NRC staff and their contractor, Pacific Northwest National Laboratory, outlined areas of Duke's response to RAI 128 that will need further clarification. Some of those areas include key assumptions used by Duke to develop its plant water balance calculations, including Broad River withdrawal rates, rates of forced and natural evaporation from cooling towers and Make-Up Pond C, National Pollutant Discharge Elimination System permit alternative requirements, future water demand in the Broad River Basin including the potential impacts of climate change, and hybrid tower performance; whether a threshold exists for days of curtailed service due to water shortages; and other alternatives such as expansion of Make-Up Pond B. Questions on Duke's plant water balance also extend to the analysis of the combined-cycle gas fired energy alternative, which Duke provided in its response to RAI 123 (ML102070357).

The NRC staff and Duke discussed how to resolve the clarification issues, which will be by conducting a two-day audit at Duke's headquarters in Charlotte, North Carolina, on June 2-3, 2011, and potentially issuing further RAIs after the audit. An audit summary will be issued in July 2011. NRC staff committed to issuing audit information needs via e-mail to Duke before the audit. The audit information needs and accompanying e-mail are publicly available via ADAMS (ML111400413). A list of the teleconference participants is enclosed. No staff decisions were made during the teleconference.

Docket Nos.: 52-018 and 52-019

Enclosure:  
As stated

cc: See next page

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DATE	05/ 20 /11	05/ 26 /11	05/ 31 /11	06/ 07 /11

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May 3, 2011 Teleconference  
Request for Additional Information 128  
Response Regarding Hybrid Wet-Dry Cooling Alternative Analysis  
William States Lee III Nuclear Station, Units 1 and 2  
Docket Nos. 52-018 and 52-019

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