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June 23, 2011

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

Subject: Duke Energy Carolinas, LLC
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
Responses to Request for Additional Information
Ltr#WLG2011.06-04

Reference: Letter from Sarah Lopas (NRC) to Bryan Dolan (Duke Energy), Follow-Up
Requests for Additional Information Regarding the Supplement to the
Environmental Report for the William States Lee III Nuclear Station, Units
1 and 2 Combined License Application, dated September 14, 2010
(ML102371173)

This letter provides supplemental information for Duke Energy's responses to the
Nuclear Regulatory Commission's request for additional information (RAI) included in
the referenced letter.

RAI 216 Supplement, Alternatives

The supplemental responses to this NRC information request is addressed in the
enclosure.

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

Ronald A. Jones
Sr Vice President
Nuclear Development

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Enclosures:

- 1) RAI 216 Supplement, Alternatives

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xc (w/o enclosure):

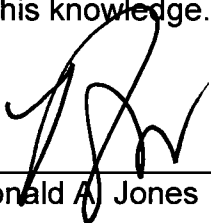
Loren Plisco, Deputy Regional Administrator, Region II
Allen Fetter, Branch Chief, DSER

xc (w/ enclosure):

Sarah Lopas, Project Manager, DSER
Brian Hughes, Senior Project Manager, DNRL

AFFIDAVIT OF RONALD A. JONES

Ronald A. Jones, being duly sworn, states that he is Senior Vice President, Nuclear Development, Duke Energy Carolinas, LLC, that he is authorized on the part of said Company to sign and file with the U. S. Nuclear Regulatory Commission this supplement to the combined license application for the William States Lee III Nuclear Station and that all the matter and facts set forth herein are true and correct to the best of his knowledge.



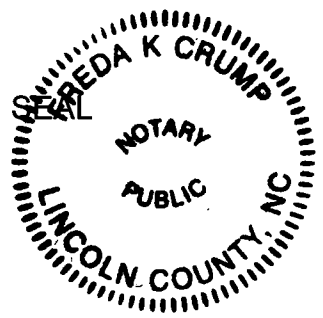
Ronald A. Jones

Subscribed and sworn to me on June 23, 2011

Freda K. Crump

Notary Public

My commission expires: August 17, 2011



Lee Nuclear Station Response to Request for Additional Information (RAI)
RAI Letter Dated: September 14, 2010
Reference NRC RAI Number: ER RAI 216 Supplement, Alternatives

NRC RAI:

During the June 2 and 3, 2011 NRC audit, it was requested that Duke Energy provide the following information:

Provide wet and dry bulb temperature readings data collected at Catawba Nuclear Station for the year 2002, that were used in projecting the evaporation rates for a wet cooling tower at Lee Nuclear Station. Provide the following information from the hybrid cooling performance model:

- Temperature of circulating water leaving the dry cooling towers
- Temperature of circulating water leaving the wet cooling towers
- Calculated wet tower evaporation
- Number of wet towers in operation
- Circulating water flow rate

Duke Energy Response:

This supplement to Duke Energy's response to ER RAI 216 (Reference 1) provides, in the spreadsheet in Attachment 216S-01, the hybrid cooling system model data used to calculate the daily water consumption values submitted in Table 11 of that response. The spreadsheet provides the model inputs of hourly wet and dry bulb temperature readings from the Catawba Nuclear Station, and circulating water flow rate. The model calculates temperature of circulating water leaving the dry cooling towers, temperature of circulating water leaving the wet cooling towers, the wet tower evaporation and number of wet towers in operation for each hourly temperature data set. The model and these outputs are also provided in the spreadsheet.

Reference:

1. Letter from Bryan J. Dolan (Duke Energy) to Document Control Desk, U.S. Nuclear Regulatory Commission, Response to Request for Additional Information, Ltr# WLG2010.10-09 dated October 29, 2010 (ML102371173)

Associated Revisions to the Lee Nuclear Station Combined License Application:

None

Attachment:

Attachment 216S-01 CD Containing Hybrid Cooling System Performance Model Data

Attachment 216S-01

CD Containing Hybrid Cooling System Performance Model Data