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February 16, 2009

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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  
Response to Request for Additional Information  
Ltr# WLG2009.2-05

Reference: Letter from L.M. Tello (NRC) to B.J. Dolan (Duke Energy), *Request for Additional Information Regarding the Environmental Review of the Combined License Application for William States Lee III Nuclear Station, Units 1 and 2*, dated January 21, 2009

This letter provides the Duke Energy response to the Nuclear Regulatory Commission's (NRC) request for the following additional information (RAI) item listed in the reference letter:

RAI 118, Terrestrial Ecology

The response to this NRC request is addressed in the enclosure which also identifies any associated changes that will be made in a future revision of the William States Lee III Nuclear Station application.

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

Bryan J. Dolan  
Vice President  
Nuclear Plant Development

DO93  
NRD

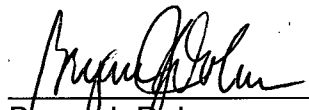
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Enclosure:

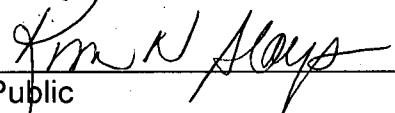
1. Response to RAI 118, Terrestrial Ecology

AFFIDAVIT OF BRYAN J. DOLAN

Bryan J. Dolan, being duly sworn, states that he is Vice President, Nuclear Plant 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.

  
Bryan J. Dolan

Subscribed and sworn to me on February 16, 2009

  
Notary Public

My commission expires: April 19, 2010



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xc (wo/enclosure):

Loren Plisco, Deputy Regional Administrator, Region II  
Stephanie Coffin, Branch Chief, DNRL  
Robert Schaaf, Branch Chief, DSER

xc (w/enclosure):

Linda Tello, Project Manager, DSER  
Brian Hughes, Senior Project Manager, DNRL

**Lee Nuclear Station Response to Request for Additional Information (RAI)**

**RAI Letter Dated:** January 21, 2009

**Reference NRC RAI Number:** ER RAI-118

**NRC RAI:**

How and in what way does Duke Energy plan to consider the effects of nighttime security lighting on wildlife resources in its lighting system design? Provide a response discussing the effects of lighting system designs on wildlife resources. Provide a copy of the lighting system design when it is completed.

The response to RAI 85 says the plant's lighting system design has not yet been completed. RAI 85 was a response to the U.S. Fish and Wildlife Service scoping comment expressing concern about the effects of nighttime security lighting on migratory birds, bats and other wildlife resources.

**Duke Energy Response:**

As stated in the response to ER RAI-85, the security lighting system is required to conform to the NRC requirements of 10 CFR 73.50 and 10 CFR 73.55. Light pole height for stadium lighting is expected to be 80 feet. Light pole height along roadways and parking is expected to be 35 feet. Lighting requirements are not less than 0.2 foot-candles measured horizontally at ground level.

The installation of the NRC mandated night security lighting system at Lee Nuclear Station is not expected to negatively impact wildlife in the area. Anecdotal evidence to support this is based on the fact that there have been no indications that the NRC required security lighting at Duke Energy's three existing nuclear stations (Oconee, McGuire, and Catawba) has been detrimental to migrating birds and bats. Because EHS employees at all three of these nuclear stations have been trained in the corporation's Avian Protection Plan, any bird and bat mortality issues would have been reported. Duke Energy takes seriously the company's and the employees' reporting responsibilities under the Migratory Bird Treaty Act, and a 24-h Migratory Bird Hotline that has been in operation for 6 years was set up to address issues such as bird and bat mortalities across the entire corporation. To date there have been no bird or bat mortality issues reported at the nuclear stations that would in any way suggest that the station's lighting system has a negative impact on local wildlife.

**Associated Revision to the Lee Nuclear Station Combined License Application:**

None

**Associated Attachments:**

None