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March 29, 2012

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
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
Supplemental Information to the Environmental Report (Revision 1)
Ltr# WLG2012.03-10

- References: 1) Letter from B.J. Dolan to Document Control Desk, Duke Energy Carolinas, LLC, William States Lee III Nuclear Station – Docket Nos. 52-018 and 52-019; Revision 1 to the Environmental Report (Part 3) and Revision 2 to Withheld Information (Part 9) for William States Lee III Nuclear Station Units 1 and 2 Combined License Application, dated March 30, 2009 (ML090990081)
- 2) Letter from Christopher M. Fallon to Chief, Rulemaking and Directives Branch, 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
Comments on Draft Environmental Impact Statement for Combined Licenses (COLs) for William States Lee III Nuclear Station Units 1 and 2
Ltr# WLG2012.03-01, dated March 1, 2012 (ML12067A037)

This letter provides supplemental information to Revision 1 of the Duke Energy Environmental Report (Part 3) William States Lee III Nuclear Station Units 1 and 2 Combined License Application (Reference 1). This information supplements comments provided by Duke Energy to NRC during review of the Draft Environmental Impact Statement (Reference 2).

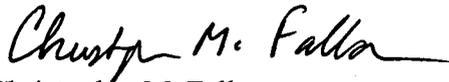
Supplemental Information to the Environmental Report (Revision 1)

The response to the NRC information request described in the referenced letters is addressed in a separate enclosure, which also identifies associated changes to the Combined License Application for the Lee Nuclear Station, when appropriate.

Document Control Desk
March 29, 2012
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If you have any questions or need any additional information, please contact James R. Thornton, Nuclear Plant Development Licensing Manager (Acting), at (704) 382-2612.

Sincerely,

A handwritten signature in black ink that reads "Christopher M. Fallon". The signature is written in a cursive style with a long horizontal flourish at the end.

Christopher M. Fallon
Vice President
Nuclear Development (Acting)

Enclosure:

1. Supplemental Information to the Environmental Report (Revision 1)

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xc (w/out enclosure):

Charles Casto, Deputy Regional Administrator, Region II

xc (w/ enclosure):

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

AFFIDAVIT OF CHRISTOPHER M. FALLON

Christopher M. Fallon, being duly sworn, states that he is Vice President, Nuclear Development (Acting), 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 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.

Christopher M. Fallon

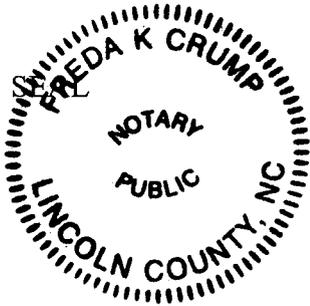
Christopher M. Fallon, Vice President
Nuclear Development (Acting)

Subscribed and sworn to me on March 29, 2012

Freda K. Crump

Notary Public

My commission expires: August 17, 2016



Supplemental Information to the Environmental Report (Revision 1)

Results of the viewshed analysis described in the ER Rev. 1 were based on the assumption that reactor dome heights of 180.5 feet above ground level represented the tallest structure. A revised viewshed analysis was performed using the height of the shield buildings (229 feet, 5 inches above plant grade elevation) to represent the tallest and most visible structure on the site.

References:

1. Letter from B.J. Dolan to Document Control Desk, Duke Energy Carolinas, LLC, William States Lee III Nuclear Station – Docket Nos. 52-018 and 52-019; Revision 1 to the Environmental Report (Part 3) and Revision 2 to Withheld Information (Part 9) for William States Lee III Nuclear Station Units 1 and 2 Combined License Application, dated March 30, 2009 (ML090990081)

Associated Revisions to the Lee Nuclear Station Combined License Application:

ER Subsection 2.2.1.2

ER Subsection 4.4.1.4

Figure 4.4-1

Attachments:

1. Attachment 1, ER Subsection 2.2.1.2
2. Attachment 2, ER Subsection 4.4.1.4
3. Attachment 3, Figure 4.4-1

Attachment 1

ER Subsection 2.2.1.2

COLA Part 3, ER Subsection 2.2.1.2, tenth paragraph is revised to read:

Duke Energy plans to use short and compact mechanical-draft cooling towers at the Lee Nuclear Station. The tallest structures planned for the station are the shield buildings~~reactor domes~~. These structures would be 229.4~~180.5~~ ft. above ground level. The shield buildings~~reactor domes~~ would be most visible from local parks in Gaffney, South Carolina, Kings Mountain State Park, Croft State Park, and Crowders Mountain State Park.

Attachment 2

ER Subsection 4.4.1.4

Duke Letter Dated: March 29, 2012

COLA Part 3, ER Subsection 4.4.1.4, second through fourth paragraphs are revised to read:

Section 3.1 describes construction materials which ultimately lessen the visual impact of the site on the vicinity. The tallest structures on-site during the construction period are expected to be the MET tower and cranes used for construction of the facilities. As these structures primarily consist of iron framework, they carry a lower visual weight than the shield buildingsreactor domes, which will be the most visible structures on-site as the Lee Nuclear Station nears completion.

As the viewshed analysis in Subsection 2.2.1 states, the Lee Nuclear Station uses short and compact mechanical-draft cooling towers that are expected to have minimal effects on local viewsheds. Towards the end of construction, the most visible structures on the site are the shield buildingsreactor domes at 229.4180.5 ft. above ground level, ~~which is set in place towards the end of the construction period.~~ The shield buildingsreactor domes at the Lee Nuclear Station are most visible from local parks in Gaffney, South Carolina, King's Mountain State Park (7.8 mi. northeast), ~~Cowpens National Battlefield (located in Chesnee, South Carolina), and~~ Croft State Park (located in Spartanburg, South Carolina) and Crowders Mountain State Park (located in Kings Mountain, North Carolina). Because the visual effects are inversely proportional to distance, the effects of the shield buildingsreactor domes on the remaining regional parks are minimal.

Figure 4.4-1 illustrates the visual effect of the shield buildingsreactor domes as a function of distance and angle of vision occupied by the buildingsdomes. As the distance from the shield buildingsdomes increases, the angle of vision occupied by the buildingsdomes decreases significantly. Most of the parks in the region are located more than 25 mi. from the site. Although the shield buildingsreactor domes may be visible at that distance, they occupy less than one-fifth of a degree of vision.

Attachment 3

Figure 4.4-1