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May 02, 2013

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

10 CFR 52.79

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 Related to Design Changes to the Lee Units 1 and 2  
Physical Locations and Additional Design Enhancements  
Ltr#: WLG2013.05-02

- References:
1. Letter from Christopher M. Fallon (Duke Energy) to NRC Document Control Desk, Supplemental Information Related to Design Changes to the Lee Units 1 and 2 Physical Locations, Ltr# WLG2012.12-02, dated December 20, 2012 (ML12361A057, ML12361A058, ML12361A060, ML12361A061)
  2. Letter from Bryan J. Dolan (Duke Energy) to the attention of R. William Borchardt, Document Control Desk (NRC), Duke Energy Carolinas, LLC, William States Lee III Nuclear Station - Project Number 742, *Application for a Combined License for William States Lee III Nuclear Station Units 1 and 2*, dated December 12, 2007 (ML073510494)

In Reference 2 Duke Energy provided a site-specific conceptual design for the layout of the William States Lee III Nuclear Station in the Final Safety Analysis Report (FSAR). In Reference 1, Duke Energy provided an update to the NRC regarding proposed changes to this design and to the FSAR. This submittal supersedes the information provided in Reference 1.

Since the development of Reference 2, Duke Energy has identified enhancements to the placement of Lee Units 1 and 2. In order to manage project construction risks that would have been associated with the construction activities in the northwest corner of Lee Unit 1 in its former location, and improve site characteristics, Duke Energy is relocating Lee Unit 1, 50 feet east and 66 feet south and Unit 2, 66 feet south. Duke Energy is also raising the plant grade elevation by three feet and the yard grade elevations by approximately two to three feet. The changes to the plant location and elevation are small, but require evaluation of potential impacts in each part of the combined license application. Additionally, Duke Energy has made several additional design enhancements to the Lee site. These enhancements are modification of the Exclusion Area Boundary, modification of the shoreline management program, and extension of the existing rail spur. This letter identifies the scope of these design enhancements and discusses the impact of these enhancements to the Lee site.

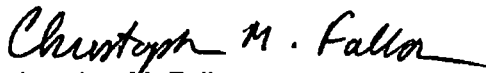
U.S. Nuclear Regulatory Commission  
May 02, 2013  
Page 2 of 5

Enclosure 1 of this letter discusses the relocation of Units 1 and 2, the additional design enhancements and the impacts of these changes on the FSAR. Enclosure 2 of this letter presents Duke Energy's assessment of the geotechnical and seismic impacts of the relocation and the associated changes to the FSAR. The associated FSAR changes presented in Enclosures 1 and 2 will be incorporated into a future revision of the FSAR. Enclosure 3 of this letter discusses the areas of the FSAR not impacted by the plant relocation and additional design enhancements. Minor changes to the Physical Security Plan (Part 8 - Safeguards) have been identified and were addressed in a separate submittal.

Additionally, Duke Energy has identified multiple responses to NRC Requests for Additional Information (RAI) potentially impacted by the plant relocation and additional design enhancements. These previous RAI responses will be updated in a future submittal.

If you have any questions or need any additional information, please contact Robert H. Kitchen, Nuclear Development Licensing Director, at (704) 382-4046.

Sincerely,

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

Christopher M. Fallon  
Vice President  
Nuclear Development

Enclosures:

- 1) Lee Nuclear Station Units 1 and 2 Description, Scope of Changes, and FSAR Impacts due to Plant Relocation and Additional Design Enhancements
- 2) Lee Nuclear Station Units 1 and 2 Evaluation of 2012 Field Investigation Results for Plant Relocation
- 3) Lee Nuclear Station Units 1 and 2 FSAR Content Not Impacted due to Plant Relocation and Additional Design Enhancements

U.S. Nuclear Regulatory Commission  
May 02, 2013  
Page 4 of 5

xc (w/o enclosures):

Frederick Brown, Deputy Regional Administrator, Region II

xc (w/ enclosures):

Brian Hughes, Senior Project Manager, DNRL  
Patricia Vokoun, Project Manager, DSER  
Terri Miley, PNNL

AFFIDAVIT OF CHRISTOPHER M. FALLON

Christopher M. Fallon, being duly sworn, states that he is 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 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

Subscribed and sworn to me on May 2, 2013

Teresa D. Neely  
Notary Public

My commission expires: 9/2/2015

SEAL

