



Bryan J. Dolan
VP, Nuclear Plant Development

Duke Energy
EC09D/ 526 South Church Street
Charlotte, NC 28201-1006

Mailing Address:
P.O. Box 1006 - EC09D
Charlotte, NC 28201-1006

704-382-0605

bjdolan@duke-energy.com

October 17, 2008

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
Response to Request for Additional Information (RAI No. 665)
Ltr # WLG2008.10-09

Reference: Letter from Tanya Simms (NRC) to Peter Hastings (Duke Energy),
*Request for Additional Information Letter No. 015 Related to SRP Section
08.02 for the William States Lee III Units 1 and 2 Combined License
Application, dated September 18, 2008*

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

The response to the NRC information request described in the referenced letter is addressed in a separate enclosure, which also identifies associated changes, when appropriate, that will be made in a future revision of the Final Safety Analysis Report for the Lee Nuclear Station.

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

Bryan J. Dolan
Vice President
Nuclear Plant Development

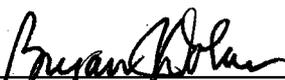
Document Control Desk
October 17, 2008
Page 2 of 4

Enclosure:

- 1) Duke Energy Response to Request for Additional Information Letter 015, RAI
08.02-008

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 October 17, 2008



Notary Public

My commission expires: June 26, 2011

SEAL



Document Control Desk
October 17, 2008
Page 4 of 4

xc (w/o enclosure):

Michael Johnson, Director, Office of New Reactors
Gary Holahan, Deputy Director, Office of New Reactors
David Matthews, Director, Division of New Reactor Licensing
Scott Flanders, Director, Site and Environmental Reviews
Glenn Tracy, Director, Division of Construction Inspection and Operational Programs
Charles Ader, Director, Division of Safety Systems and Risk Assessment
Michael Mayfield, Director, Division of Engineering
Luis Reyes, Regional Administrator, Region II
Loren Plisco, Deputy Regional Administrator, Region II
Thomas Bergman, Deputy Division Director, DNRL
Stephanie Coffin, Branch Chief, DNRL

xc (w/ enclosure):

Tanya Simms, Project Manager, DNRL
Brian Hughes, Senior Project Manager, DNRL

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

RAI Letter No. 015

NRC Technical Review Branch: Electrical Engineering Branch (EEB)

Reference NRC RAI Number(s): 08.02-008

NRC RAI:

Section 8.2.2 of the FSAR discusses grid stability studies and the assumptions made for load flow and transient stability. In this regard provide the following information:

- a. Provide Duke's basis for choosing the grid voltage of 525 kV and 230kV in lieu of minimum expected grid voltage in Duke Energy's analysis.
- b. Consistent with RG 1.206 Position C.I.8.2.2, provide the worst-case disturbances for which the grid has been analyzed to remain stable.

Duke Energy Response:

- a) This item is addressed in the response to NRC Letter 003; RAI No. 08.02-001, item a. (Duke to NRC letter, dated September 5, 2008, ML082530446)
- b) Unit 1 is connected to the 525 kV network; Unit 2 is connected to the 230 kV network. The 525 kV and 230 kV networks are tied together with two 525/230 kV autotransformers. The Duke Energy analysis was performed with only one autotransformer in service. The 525 kV switchyard contains two circuits, referred to as Asbury West and Asbury East. The 230 kV switchyard contains four circuits. The two Roddey West circuits are on one common tower, and the two Roddey East circuits are on another common tower.

The following contingencies (out of service) were studied:

- Roddey West Line, 230 kV
- Roddey East Line, 230 kV
- Asbury West Line, 525 kV
- Asbury East Line, 525 kV
- 525/230 kV autotransformer

Each contingency was applied to the base case as well as five other cases with Oconee 525 kV, Catawba 230 kV, McGuire 525 kV, WS Lee 525 kV, and WS Lee 230 kV associated units out of service, respectively. This represents the largest units connected to the Duke Energy Carolinas system.

The worst single element contingencies are generators, transmission circuits, and transformers being out of service. Loss of largest load or common tower contingencies are not considered single element events by NERC, therefore these contingencies were

not included in the steady state voltage study. Loss of the largest load is not a worst case contingency on the Duke Energy Carolinas system, so it is not typically studied.

Associated Revision to the Lee Nuclear Station Final Safety Analysis Report:

None

Attachments:

None