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September 24, 2009

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  
Ltr# WLG2009.09-05

Reference: Letter from J.M. Muir (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 August 21, 2008

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 AP1000 *Combined License Application for the William States Lee III Nuclear Station Units 1 and 2, Response to Request for Additional Information, Ltr# WLG2009.03-17*, dated March 19, 2009

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

RAI 59, Ecology  
RAI 60, Ecology  
RAI 96, Ecology

The response to these NRC requests are 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.

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NRO

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In addition to this letter, information for this supplement that should be withheld from public disclosure is submitted separately (Ltr # WLG2009.09-06).

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



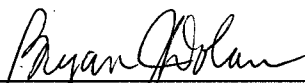
Bryan J. Dolan  
Vice President  
Nuclear Plant Development

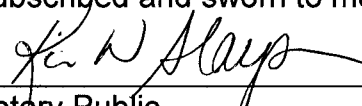
Enclosure:

- 1) Supplemental Response to RAIs 59, 60 and 96, Ecology

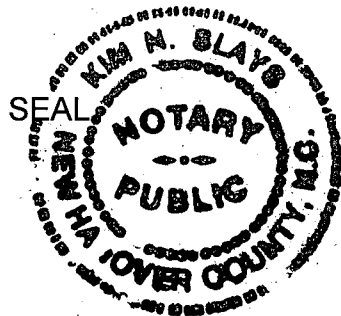
AFFIDAVIT OF BRYAN J. DOLAN

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 September 24, 2009  
  
\_\_\_\_\_  
Notary Public

My commission expires: April 19, 2010



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xc (w/o enclosure):

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

xc (w/ enclosure):

Michelle Moser, Project Manager, DSER  
Brian Hughes, Senior Project Manager, DNRL

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

**RAI Letter Dated:** August 21, 2008

**Reference NRC RAI Numbers:** ER RAI 59, ER RAI 60, ER RAI 96 Supplement

**NRC RAI:**

- ER RAI 59: Provide information on the expected 'normal' and expected "maximum" extent, frequency, and duration of drawdown of Make-Up Pond B? What periods of record have been analyzed to answer this question? If analysis is limited to the 81 year record, would these values change if a shorter, more recent record was examined (e.g. the last 10, 20, or 30 years)?
- ER RAI 60: Provide a discussion on the "normal" and "maximum" time frames for recharge of Make-Up Pond B following water usage during low flow conditions? During the site audit discussions in April/May 2008, Duke representatives were asked to generate a scenario that shows duration and frequency of drawdown.
- ER RAI 96: Describe any plans Duke has to develop additional backup water reserves in addition to Make-Up Pond B to lessen the potential for plant shut downs and to avoid water availability in the future. During the site audit (April/May 2008), the Applicant indicated that they were looking at other options to increase water storage capacity beyond Make-Up Pond B. Provide a summary of the other options Duke is considering in addition to Make-Up Pond B as cooling water during low flow conditions.

**Duke Energy Response:**

Duke Energy determined the need for an additional drought contingency pond to supplement the water available in Make-Up Pond B. Duke Energy is proposing to create a 620 acre drought contingency pond west of, and adjacent to, the Lee Nuclear Station site in the London Creek watershed.

A description of the proposed drought contingency pond and an evaluation of the environmental impacts of the construction and operation of this pond are provided in Attachment 59-60-96S-1.

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

Attachment 59-60-96S-1

Supplement to Revision 1 of the William States Lee III Nuclear Station COL Application, Part 3; Construction and Operation of Make-Up Pond C

Enclosure No. 1

Duke Letter Dated: September 29, 2009

**Attachment 59-60-96S-1**

**Supplement to Revision 1  
of the  
William States Lee III Nuclear Station  
COL Application, Part 3**

**Construction and  
Operation of Make-Up Pond C**