Bryan J. Dolan
VP, Nuclear Plant Development

Duke Energy
EC09D/ 526 South Church Street
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Bryan.Dolan@duke-energy.com

July 1, 2010

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# WLG2010.07-01

Reference: Letter from Sarah Lopas (NRC) to Bryan Dolan (Duke Energy), Request for Additional Information Regarding the Supplement to the Environmental Report for the William States Lee III Nuclear Station, Units 1 and 2, Combined License Application, dated June 22, 2010 (ML101370398)

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

RAI 134, Cultural Resources
RAI 143, Ecology- Aquatic
RAI 145, Ecology-Aquatic
RAI 147, Ecology-Aquatic
RAI 155, Ecology-Terrestrial
RAI 159, Ecology-Terrestrial
RAI 160, Ecology-Terrestrial
RAI 162, Ecology-Terrestrial
RAI 169, Ecology-Terrestrial
RAI 174, Ecology-Terrestrial
RAI 176, Ecology-Terrestrial
RAI 185, Hydrology-Ground Water
RAI 197, Land Use
RAI 199, Power Supply

The responses to the NRC information request described in the referenced letter are addressed in separate enclosures, which also identify associated changes to the Combined License Application for the Lee Nuclear Station, when appropriate.

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

D093
NRO

Enclosures:

1) Response to ER RAI 134, Cultural Resources
2) Response to ER RAI 143, Ecology- Aquatic
3) Response to ER RAI 145, Ecology-Aquatic
4) Response to ER RAI 147, Ecology-Aquatic
5) Response to ER RAI 155, Ecology-Terrestrial
6) Response to ER RAI 159, Ecology-Terrestrial
7) Response to ER RAI 160, Ecology-Terrestrial
8) Response to ER RAI 162, Ecology-Terrestrial
9) Response to ER RAI 169, Ecology-Terrestrial
10) Response to ER RAI 174, Ecology-Terrestrial
11) Response to ER RAI 176, Ecology-Terrestrial
12) Response to ER RAI 185, Hydrology-Ground Water
13) Response to ER RAI 197, Land Use
14) Response to ER RAI 199, Power Supply

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

Bryan J. Dolan

Subscribed and sworn to me on July 1, 2010

Phoebe P. Elliott

Notary Public

My commission expires: June 26, 2011

SEAL

xc (w/o enclosures):

Loren Plisco, Deputy Regional Administrator, Region II
Jeffrey Cruz, Branch Chief, DNRL
Robert Schaaf, Branch Chief, DSER

xc (w/ enclosures):

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

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Numbers: ER RAI 134, Cultural Resources

NRC RAI:

Provide the following additional information:

- The status of the South Carolina State Historic Preservation Office (SHPO) request for hard copies of the architectural survey cards;
- The Phase 2 cultural resources survey report for Pond C (when available);
- The results of the geomorphological study; and,
- The status on the plan to relocate the Service Family Cemetery (38CK142), which would be impacted by Pond C excavation and inundation activities, as well as any input received by interested parties and the public regarding the planned relocation.

Duke Energy Response:

The response to each of the questions follows:

- Architectural survey cards were provided to the SHPO with the final report for the cultural resources survey for Make-Up Pond C. A letter from the SC SHPO acknowledging receipt of the survey cards is included as an Attachment to this response.
- The final report for the cultural resources report (referred to by NRC as the Phase 2 cultural resources survey report) for Make-Up Pond C was provided to the NRC in the Supplemental Response F to RAI 119 (Duke Energy letter WLG2010.06-05, June 23, 2010).
- The results of the geomorphological were included in the final cultural resources report for Make-Up Pond C (Duke Energy letter WLG2010.06-05, June 23, 2010).
- Since construction for Make-Up Pond C will not commence until 2014, planning activities related to relocation of the Service Family Cemetery including notification and solicitation of comments from interested parties and the public will not occur until 2012.

Associated Revision to the Lee Nuclear Station Combined License Application:

None

Attachment:

Attachment 134-1 Letter from C. Cantley (SCSHPO) to T. Bowling (Duke) acknowledging receipt of architectural survey cards and bound reports, October 20, 2009

Attachment 134-1

Letter from C. Cantley (SCSHPO) to T. Bowling (Duke) acknowledging receipt of architectural survey cards and bound reports, October 20, 2009

October 20, 2009

SHPO # 09-CW0462

Mr. Theodore Bowling
Environmental Project Manager
Nuclear Plant Development
EC09D/PO Box 1006
Charlotte, NC 28201-1006

Re: Phase I (Interim Report) on the Cultural Resources Survey of the Proposed London Creek Reservoir (Make-up Pond C) and Water Pipeline, Cherokee County, South Carolina

Dear Mr. Bowling:

We have received the architectural survey cards, four bound copies, one unbound copy, and two electronic copies for of the above-mentioned report. This satisfies the number of copies required for distribution. SHPO looks forward to the Phase II report which will include the remainder of the land within the proposed reservoir and a proposed transmission line, as well as the results of the geomorphological investigations of the floodplain and terraces along London Creek.

These comments are provided to assist you with your responsibility under pertinent state and federal laws. If you have any questions or comments, please contact me at (803) 896-6181 or ccantley@scdah.state.sc.us.

Sincerely,

Chuck Cantley

Chuck Cantley, MA, RPA
Staff Archaeologist/GIS Coordinator
State Historic Preservation Office

cc: Josh Fletcher, Brockington and Associates

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 143, Ecology - Aquatic

NRC RAI:

Provide a justification for drainage of the ponds both inside and outside the full pool elevation and indicate how the fish would be disposed after removal from the farm ponds (e.g. transplant to another pond, etc.).

Duke Energy Response:

For safety reasons, all the farm pond dams will be breached. Safety concerns are based on the following:

- No records exist on the design or the construction of the dams and Duke Energy is unable to determine whether the dams were properly designed and/or constructed.
- Most of the dams do not have a discharge structure or if they have one it is not adequately designed to prevent overtopping of the dams under significant storm events. Duke Energy has seen evidence of slope failure and erosion on the downstream faces of the dams as a result of this overtopping.
- Inspections of the dams by Duke Energy has identified the dams have not been properly maintained. Trees and vegetation have been allowed to grow on the downstream face of most of the dams. Therefore there is a risk that a storm could blow over some of these trees resulting in root balls being pulled from the dam face which could lead to failure of the dams.
- The downstream face of one of the farm pond dams slipped in January 2010 and started leaking. Duke Energy lowered the water level below the elevation of the leak to prevent failure. Duke Energy is currently working on plans for a controlled breach and removal of this dam.

Duke Energy will work with the SC Department of Natural Resources to relocate the fish in the farm ponds to another suitable location before breaching the dams.

Associated Revision to the Lee Nuclear Station Combined License Application:

None

Attachment:

None

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 145, Ecology - Aquatic

NRC RAI:

Provide a description of any additional plans for environmental improvement following construction of Pond C and other offsite projects (e.g., rail line and transmission line) following construction.

Duke Energy Response:

A similar question to this was asked concerning the Lee Nuclear Site. A response to that question was provided to NRC as RAI 95 Supplement (Letter No. WLG2009.09-04, ML092580474, September 14, 2009). That response applies to this RAI and is repeated as follows:

All areas cleared as temporary construction areas would first be re-vegetated in accordance with the Duke Energy BMPs [Best Management Practices] for erosion control in compliance with South Carolina stormwater management permits. Long term landscaping for the site would be reviewed by site security staff to ensure an appropriately cleared security buffer. For areas outside the security buffer, landscape decisions would be made by Duke Energy landscape architects. Past practices have been to mechanically disturb the upper several inches of soil to facilitate seed germination, amend the soil where necessary, re-vegetate using native vascular plants and allow natural succession to take over.

As described in the ER-Supplement in Section 2.2.2 (page 2-1), there will be a 300-ft buffer around the perimeter of Make-Up Pond C. The 300-ft buffer will remain in its natural vegetated state with the exception of a 50-ft wide strip along the shoreline, which will be cleared, grubbed, and grassed to prevent debris from washing into the impoundment.

Associated Revision to the Lee Nuclear Station Combined License Application:

None

Attachment:

None

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 147, Ecology-Aquatic

NRC RAI:

Provide copies of the National Pollutant Discharge Elimination System (NPDES) discharge permit application and any response(s) from SCDHEC as they are received. Include information on how the intake system would be compliant with the NPDES Permit under Sections 316(b), 401, and 402 of the Clean Water Act.

Duke Energy Response:

The NPDES permit application has not yet been submitted to SCDHEC. When the NPDES permit application is filed it will include information describing the intake system.

Associated Revision to the Lee Nuclear Station Combined License Application:

None

Attachment:

None

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 155, Ecology - Terrestrial

NRC RAI:

Clarify the percentage of Pond C study area that is comprised of forested land.

Duke Energy Response:

In Subsection 2.2.2 of the Environmental Report Supplement (Duke Letter WLG2009.09-05, ML092810255) (page 2-2), the amount of forested land is discussed as 65% forested based on U.S. Geological Survey (USGS) land use data. In Subsection 2.4.1.1 of the Environmental Report Supplement (page 2-50), the amount of forested land is discussed as 78% based on ecological cover type data, which was developed at a finer scale than the land use data (from field assessment/mapping).

To clarify these two values, revisions to Subsection 2.4.1.1 of the Environmental Report Supplement are provided in Attachment 155-01.

Associated Revision to the Lee Nuclear Station Combined License Application:

1. Environmental Report Supplement Subsection 2.4.1.1.

Attachment:

Attachment 155-01 Mark-up of Environmental Report Supplement Subsection 2.4.1.1.

Attachment 155-01

Mark-up of Environmental Report Supplement Subsection 2.4.1.1.

Revise COLA Part 3, Environmental Report Supplement, Subsection 2.4.1.1., second paragraph as follows:

Eight ecological cover types are identified for the Make-Up Pond C study area: 1) mixed hardwood (MH), 2) mixed hardwood-pine (MHP), 3) open areas, fields and meadows (OFM), 4) open pine-mixed hardwood (OPMH), 5) pine (P), 6) pine-mixed hardwood (PMH), 7) upland scrub (USC), and 8) open water (Figure 2.4-6, Table 2.4-12). Forested cover types encompass 78 percent of the Make-Up Pond C study area. The percentage of forested cover types differs from the percentage stated in Subsection 2.2.1, which uses USGS land use data to determine percentage of forested land, rather than ecological cover type data. Each vegetation cover type for the Make-Up Pond C study area is described in the subsections below. The open water cover type (farm ponds), as well as linear stream features (London Creek, Little London Creek, un-named tributaries), are described under aquatic habitats in Subsection 2.4.2.

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 159, Ecology - Terrestrial

NRC RAI:

Provide a description of any terrestrial ecological communities found at Lake Cherokee that could be affected either positively or negatively by the creation of an adjacent 620-acre reservoir.

Duke Energy Response:

The creation of Make-Up Pond C will inundate approximately 2.4 acres of mixed hardwoods (MH) within the Lake Cherokee property owned by the South Carolina Department of Natural Resources. Another 1 acre of MH within the property will be cleared within the 50-foot buffer for the pond. A description of the MH cover type is included within Subsection 2.4.1.1.2 of the Environmental Report Supplement. Approximately 1 acre of open areas, fields and meadows (OFM), consisting of the Lake Cherokee dam, will be impacted by the inundation of Make-Up Pond C and associated spillway improvements to the Lake Cherokee dam. A description of the OFM cover type is included within Subsection 2.4.1.1.4 of the Environmental Report Supplement. Impacted areas are all downstream of the Lake Cherokee Dam. The impact acreages to these communities within the Lake Cherokee property are included within Table 4.3-2 in the Environmental Report Supplement. A description of wildlife resources that may be found within these areas is provided in Subsection 2.4.1.2 of the ER-Supplement.

Besides the direct effects to the terrestrial communities discussed above, the creation of Make-Up Pond C is not anticipated to positively or negatively affect terrestrial communities within the Lake Cherokee property. As shown on the National Agriculture Imagery Program (NAIP) 2006 aerial photograph, forested communities within the Lake Cherokee property have already been fragmented by residential development and agricultural lands to the west, north and east (Reference 1). The natural 250-foot buffer beyond the 50-foot cleared buffer around the reservoir will also maintain wildlife travel corridors through the Make-Up Pond C study area to the Broad River floodplain. Therefore, wildlife movement to and from the Lake Cherokee property should be maintained.

Reference:

1. Natural Resource Conservation Service (NRCS). 2009. National Agriculture Imagery Program Aerial Photographs. Cherokee, South Carolina. http://datagateway.nrcs.usda.gov. Accessed on: June 18, 2010.

Associated Revision to the Lee Nuclear Station Combined License Application:

None

Attachment:

None

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 160, Ecology - Terrestrial

NRC RAI:

Provide information on waterfowl species and habitat at water bodies that would be traversed by the proposed re-routed transmission line and any associated potential effects.

Duke Energy Response:

As described in Subsection 4.3.2.2 and shown on Figure 4.3-3 of the Environmental Report Supplement, the existing farm ponds that the rerouted 44-kV transmission line traverses will be drained and filled with spoil material prior to the installation of the transmission line. Therefore, these areas will not attract waterfowl once the transmission line is constructed. As noted in Table 2.4-14 of the Environmental Report Supplement, Canada geese are the only waterfowl species that have been observed within the Make-Up Pond C study area and these observations were within Ninety-Nine Islands Reservoir. No waterfowl has been observed within the farm ponds. The farm ponds are situated within a large field, with no buffering shrubs or trees or other nearby cover. These ponds would provide feeding or loafing habitat only for Canada geese, which may graze on the surrounding grass and any available aquatic plants in the ponds. The lack of cover and level of disturbance at these ponds would likely preclude the presence of other waterfowl. Other open waterbodies in the vicinity, including Ninety-Nine Islands Reservoir, Lake Cherokee, and the Make-Up Ponds A and B, provide ample habitat should any waterfowl be displaced. Therefore, the effect to waterfowl from the removal of the ponds is SMALL.

Although the farm ponds will be impacted before the transmission line is constructed, the transmission line will also traverse Make-Up Pond C. It is difficult to project what types of waterfowl may utilize the proposed pond and the extent of their use; however, waterfowl use of Make-Up Pond C may be similar to what occurs at existing Make-Up Ponds A and B. The 2006 field reconnaissance of Make-Up Ponds A and B described in Environmental Report, Revision 1, Subsection 2.4.1.2.2 documents low waterfowl use, but includes species such as mallard, wood duck, and double-crested cormorant. Canada geese, which have been observed in Ninety-Nine Islands Reservoir, may also utilize Make-Up Pond C. Make-Up Ponds A and B are large in size (approximately 75 and 150 acres, respectively) and can support viable, stable fish communities as well as aquatic plant communities to provide forage for waterfowl. Although the edges are partially cleared, Make-Up Ponds A and B currently have partial wooded buffers which are important to many waterfowl species as cover, loafing, feeding, and nesting areas. Make-Up Pond C will be substantially larger than either of these ponds (620 acres). Additionally, a 50-foot maintained buffer around Make-Up Pond C will eliminate vegetative cover types that currently provide waterfowl habitat at Make-Up Ponds A and B. Make-Up Pond C will also provide little littoral zone for foraging, as current topography indicates steep drop-offs from the shore as shown in Figure 2.3-32 of the Environmental Report Supplement.

As shown on Figure 3.1-7 of the Environmental Report Supplement, the proposed rerouted 44-kV transmission line is expected to cross Make-Up Pond C at three points at the pond's western end. Two of the crossings are near the point where the pond transitions to a stream. The third crossing is adjacent to the bridge for the relocated SC 329. There is a possibility of waterfowl collision with the transmission lines; however, it is not expected that Make-Up Pond C will be extensively used by waterfowl due to the limited littoral habitat and cover adjacent to the pond. Environmental Report, Revision 1, Subsection 5.6.1 discusses the impact of transmission lines at the Lee Nuclear Station. Since there is no evidence to suggest that Make-Up Pond C will be an attractant of large populations of waterfowl, and as stated in Environmental Report, Revision 1, Subsection 5.6.1, the NRC concludes in NUREG-1437 that mortality resulting from bird collisions with existing powerlines does not cause long-term reductions in bird populations, it is anticipated that the impact to waterfowl from collisions with the 44-kV transmission line will be SMALL.

Associated Revision to the Lee Nuclear Station Combined License Application:

None

Attachment:

None

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 162, Ecology - Terrestrial

NRC RAI:

Provide clarification on whether the improvements to existing roadways in support of Pond C would occur entirely within the study area, or whether areas outside the study area also would be affected. Distinguish between such impacts inside and outside the Pond C study area both in the text on page 4-18 and in a revision of Table 4.3-2, if indeed there would be any such impacts outside the study area.

Duke Energy Response:

Necessary improvements to local roads in support of Make-Up Pond C construction are discussed in Section 4.4.1.3 of the ER Supplement. The Make-Up Pond C study area was defined to include these improvements and is depicted in Figure 4.3-3. Therefore, all impacts from road improvements are included in Table 4.3-2.

Associated Revision to the Lee Nuclear Station Combined License Application:

None

Attachment:

None

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 169, Ecology - Terrestrial

NRC RAI:

Provide clarification on whether the first 50 ft of the 300 ft buffer area are included in Table 4.3-2.

Duke Energy Response:

Impacts from clearing associated with the 50-foot buffer around the proposed reservoir are included within the Vegetation Clearing category in Table 4.3-2.

Associated Revision to the Lee Nuclear Station Combined License Application:

None

Attachment:

None

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 174, Ecology - Terrestrial

NRC RAI:

Provide clarification on whether the detour of the rail spur around the Reddy Ice Plant is 1,300 ft or 1,800 ft.

Duke Energy Response:

The "1800 feet" appearing within the parenthetical in Environmental Report Supplement Subsection 9.3.2.1 text is a typographic error (i.e., the '8' should be a '3').

Associated Revision to the Lee Nuclear Station Combined License Application:

1. Environmental Report Supplement Subsection 9.3.2.1

Attachment:

Attachment 174-1 Mark-Up of Environmental Report Supplement Subsection 9.3.2.1

Attachment 174-1

Mark-Up of Environmental Report Supplement Subsection 9.3.2.1

COLA Part 3, Environmental Report Supplement, Chapter 9, Subsection 9.3.2.1, second paragraph, is revised as follows:

Lee Site

The Lee Site was previously owned by Duke Energy and was available for purchase at the time of the site selection study. Duke Energy has subsequently purchased the site. The site was developed as an industrial site (the former Cherokee Nuclear Site) and extensive rough grading, including the construction of two reservoirs, was completed in the 1970s. The surrounding land is rural and sparsely populated. The Lee Site will require a 620-ac supplemental water pond (Subsection 9.3.2.2). An existing 8-mile rail spur to the site will need a small re-route (approximately ~~1,800~~ 1,300 ft) and the rail bed will need vegetation cleared, new ballast, rail ties and rails added to become operational for transporting materials and equipment to the site. Land use impacts would be MODERATE.

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 176, Ecology - Terrestrial

NRC RAI:

To evaluate impacts to wetlands, provide the projected daily change in Pond B surface elevation, based on a period of record from 1926 to 2006, for the following periods:

1) partial alignment to Pond B for an actual 7-day period in 1.5 years plus the time required to subsequently refill Pond B;

2) partial alignment to Pond B for an actual one-month period in 6.4 years plus the time required to subsequently refill Pond B;

3) complete alignment to Pond B for an actual one-month in 10.3 years plus the time required to subsequently refill Pond B;

4) partial alignment to Pond B for 90 consecutive days in 12.2 years plus the time required to subsequently refill Pond B; and

5) for the 42 days of curtailment during June-September 2002 including any preceding period of partial and/or complete alignment prior to curtailment and the time required to subsequently refill Pond B.

Duke Energy Response:

Due to the addition of the 2007-2008 drought and subsequent inclusion of Make-Up Pond C into the water management strategy for the Lee Nuclear Site, the potential (modeled) drawdown dynamics for Make-Up Pond B have changed. The various conditions cited in the RAI are no longer used in the Environmental Report. The drawdown information for Make-Up Pond B and Make-Up Pond C is provided in the Environmental Report Supplement (Duke Letter WLG2009.09-05, ML092810255) in Subsection 5.2.1 and Subsection 5.2.2, Table 5.2-3 and Table 5.2-4, and Figures 5.2-1 through 5.2-6.

Associated Revision to the Lee Nuclear Station Combined License Application:

None

Attachment:

None

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 185, Hydrology – Ground Water

NRC RAI:

Submit a letter from the Gaffney Board of Public Works stating that existing capacity for treating drinking water and wastewater is sufficient to meet the needs of the proposed Lee Nuclear Plant.

Duke Energy Response:

Attached are two letters addressing the water and sewer impacts from adding Lee Nuclear Station to these municipal systems. The letter from Draytonville Water Works addresses the impact on the water system and the letter from Gaffney Board of Public Works addresses the impact on the sewer system.

Associated Revision to the Lee Nuclear Station Combined License Application:

None

Attachments:

Attachment 185-01	Letter from Draytonville Water Works to Duke Energy Corporation dated June 7, 2010
Attachment 185-02	Letter from Gaffney Board of Public Works to Duke Energy Corporation dated June 7, 2010

Attachment ER RAI 185-01

Letter from Draytonville Water Works

to Duke Energy Corporation dated June 7, 2010

Draytonville Water Works
100 Parris Trail
Gaffney, SC 29340
Telephone: (864) 489-4616

June 7, 2010

Mr. Dale M. Smith
Senior Engineer
Duke Energy Corporation
Mail Stop EC09D
526 South Church Street
Charlotte, NC 28202

RE: Duke Energy Lee Nuclear Site - Water Service

Dear Mr. Smith,

The proposed project to serve the Lee Nuclear Site in Cherokee county with potable water will not require any system improvements to increase capacity. However, approximately 4,000 linear feet of 6 inch water main will be added on SC Hwy 329 as shown in Figure 2-5. This proposed section of line will provide a "loop" in the water distribution system which will provide a redundant distribution path for the service area that encompasses the nuclear site. The line will be installed in the existing SC HWY 329 road shoulder (installed approximately 5 feet from the edge of the pavement). This is an area that is grassed and it was previously disturbed during the construction of the highway. Thus, there will be a minimal environmental impact from the installation of this proposed water line.

Please let me know if you have any questions or need any additional information.

Sincerely,

L. Hoke Parris

L. Hoke Parris, President

G/CherokeeCounty/GBPW/AV/Projects/DukeNuclearSite/Figure2-5Prop6inWL

N
W E
S

0 625 1,250 2,500 Feet

1 inch = 1,250 feet

Figure 2-5

Proposed 6" Waterline

Legend

Proposed 6" Waterline

Existing Waterline

Board of Public Works
GAFFNEY, SOUTH CAROLINA
ELECTRIC
WATER ~ SEWER
"Your Hometown Utility"

SUMMIT
ENGINEERING GROUP INC.

Attachment ER RAI 185-02

Letter from Gaffney Board of Public Works

to Duke Energy Corporation dated June 7, 2010

BOARD OF PUBLIC WORKS

210 East Frederick Street, Post Office Box 64
GAFFNEY, SOUTH CAROLINA 29342
(864) 488-8800
FACSIMILE (864) 488-8855

"THE PEACHOID"

June 7, 2010

Mr. Dale M. Smith
Senior Engineer
Duke Energy Corporation
Mail Stop EC09D
526 South Church Street
Charlotte, NC 28202

RE: Duke Energy Lee Nuclear Site
Sewer Service

Dear Mr. Smith,

The proposed project to serve the Lee Nuclear Site in Cherokee county with sanitary sewer service will not require any additional capacity to be added to the Broad River Waste Water Treatment Plant. However, the existing SC Hwy 329 #2 sewer lift station will need to be upgraded. The existing lift station has adequate capacity to accept the flow from the nuclear site; however, it will utilize the remaining capacity of the lift station and this capacity will need to be replaced to accommodate future growth in the area. Therefore, the existing submersible pumps will be replaced with new higher capacity pumps. In addition to the new pumps, a new permanent generator set will be added to the station to provide power in case of an outage. Also, new odor control equipment will be installed that will strip the air in the wet well to prevent any nuisance odors associated with the sewage pumped from the nuclear site. These improvements will all be installed inside the fence of the existing pump station area (previously disturbed) and there will be no environmental disturbance associated with them.

Sincerely,

Kim Fortner

Kim Fortner, P.E.
Operations Manager

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 197, Land Use

NRC RAI:

Provide a detailed description of the maintenance activities in the transmission line ROW that would potentially impact transportation.

Duke Energy Response:

Environmental Report Supplement Subsection 5.1.2 states, "Operation of Make-Up Pond C will have minimal to no effects on land use. Access to formerly open land may be restricted, and occasional ROW maintenance activities associated with transmission line and pipeline ROW may affect transportation use, ..." The reference to maintenance activities affecting transportation is restricted to the pipeline along Rolling Mill Road. Repairs to the pipeline may affect transportation along Rolling Mill Road by closing a portion of the road during the maintenance. Maintenance on the transmission line ROW will not affect transportation along public roads.

Associated Revision to the Lee Nuclear Station Combined License Application:

None

Attachment:

None

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

RAI Letter Dated: June 22, 2010

Reference NRC RAI Number: ER RAI 199, Power Supply

NRC RAI:

Provide supporting data quantifying the demand and supply of power in the service territory for 3 years after the commercial declaration of the second reactor.

Duke Energy Response:

The Duke Energy Carolinas Integrated Resource Plan (Annual Report), Revision 1, dated January 11, 2010, was submitted to the NRC April 14, 2010 in letter WLG2010.04-03 (ML101090314). This Annual Report reflects Duke Energy Carolinas' forecast of demand and supply in its service territory through 2029 and identifies the assumptions and data on which the forecast is based. The summer projections of load, capacity, and reserves for Duke Energy Carolinas through 2029 are shown in the table on page 56. Specifically, the cumulative future resource additions are shown on line 12. The base load additions, which reflects Lee Nuclear Station Units 1 and 2, shows the first 1,117 MW block of base load to be operational by the summer of 2021 and the second 1,117 MW block by the summer of 2023.

Associated Revision to the Lee Nuclear Station Combined License Application:

None

Attachment:

None