Feb 01 2018

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February 1, 2018

VIA ELECTRONIC FILING

Ms. M. Lynn Jarvis Chief Clerk North Carolina Utilities Commission 4325 Mail Service Center Raleigh, North Carolina 27699-4300

> RE: Duke Energy Carolinas, LLC's Report of Preconstruction Costs for Lee Nuclear Station Project Development Activities for the Period July 1, 2017 through December 31, 2017 Docket No. E-7, Sub 819

Dear Ms. Jarvis:

Pursuant to ordering paragraph 4 of the Commission's August 5, 2011 Order Approving Decision to Incur Limited Project Development Costs, I enclose Duke Energy Carolinas, LLC's Report of Preconstruction Costs for Lee Nuclear Station Project Development Activities for the period July 1, 2017 through December 31, 2017 for filing in connection with the referenced matter.

Thank you for your attention to this matter. If you have any questions, please let me know.

Sincerely.

Lawrence B. Somers'

Enclosure

cc: Parties of Record



Preconstruction Costs for Lee Nuclear Station Project Development Activities January 1, 2011 - December 31, 2017 February 1, 2018

	01/01/2011-		01/01/2017-		6/30/2017 -		Project Totals	
Task Description	12/31/2016		6/30/2017		12/31/2017		to Date	
COLA Preparation	\$	(254,088)	\$	-	\$	-	\$	25,067,000
NRC Review & Hearing	\$	61,668,621	\$	459,312	\$		¢	110,488,035
Fees	9	01,008,021	9	439,312	φ	-	φ	110,488,035
Land and Right-of-way	\$	1,601,087	\$		\$		\$	44,341,359
Purchases	9	1,001,087	9	-	φ	-	Φ	44,541,559
Pre-construction and Site	\$	1,673,893	\$	14,115	\$		\$	21,687,392
Preparation	9	1,075,895	9	14,115	φ	-	φ	21,087,392
Supply Chain,								
Construction Planning,	\$	57,675,449	\$	60,476	\$	-	\$	79,943,701
and Detailed Engineering								
Operational Planning	\$	3,658,280	\$	16,793	\$	-	\$	4,794,175
Post COL	\$	-	\$	1,541,284	\$	408,622	\$	1,949,906
Allocate	\$	12,983,184	\$	144,254	\$		\$	22,237,518
AFUDC	\$	172,449,346	\$2	6,364,583	\$	9,209,699	\$	247,607,083
Total	\$	311,455,772	\$2	8,600,817	\$	9,618,321	\$	558,116,168

The activities included in each category are as follows:

COLA Preparation – includes Duke labor, expenses and contract support for preparation of the Combined Construction and Operating License (COL) Application tendered to the Nuclear Regulatory Commission (NRC) on December 13, 2007. The NRC determined the application was suitable for review and docketed the application on February 25, 2008.

NRC Review and Hearing Fees – includes the cost of the NRC review fees, Duke labor and expenses, contract labor and legal support required to support the NRC review of the Lee Nuclear Station COL application, and preparation for the Advisory Committee on Reactor Safeguards Subcommittee Hearing. Category also includes interactions with South Carolina Department of Health and Environmental Control (SCDHEC) and the US Army Corps of Engineers (USACE), as required to move the environmental permit applications forward. The Lee project received the National Pollutant Discharge Elimination System (NPDES) Operations permit on July 17, 2013. The Final Environmental Impact Statement was issued by the NRC on December 23, 2013, and the 401Water Quality Certification was issued on January 2, 2014. The Final Environmental Impact Statement prepared by the U.S. Forest Service to support mitigation activities in Sumter National Forest was issued on December 5, 2014. Lee Nuclear Station received its USACE 404 Permit on September 29, 2015.

Land and Right-of-Way Purchases – includes the purchase of land required for the Lee site and rail right-of-ways. Category also includes cost of purchasing additional land for a supplemental cooling pond in event of severe drought, as well as costs for surveying the selected transmission right-of-way.

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Pre-construction and Site Preparation – includes site activities to both maintain the site and prepare the site for construction. Site preparation activities included: dewatering and cleanup of the excavated area, site remediation activities required to identify and properly dispose of hazardous wastes, and costs associated with the demolition and removal of unusable structures. Necessary maintenance of existing rail bed and required Make-up Pond B spillway repair were completed. Engineering of offsite infrastructure for potable water, sewer, and rail spur; and, geotechnical evaluations (needed for engineering) have been completed. Engineering for bringing communications to the site is also included in this category. Engineering of necessary traffic improvements was brought to 85% completion by December 2013. Ongoing and continuing activities include: site security, utilities and miscellaneous site maintenance.

Supply Chain, Construction Planning and Engineering – includes activities associated with working with the supplier to negotiate an Engineering, Procurement and Construction (EPC) agreement. Negotiations in 2008 did not result in an executed contract. Conceptual site specific engineering and construction planning activities necessary to develop a complete project definition are included in this category. Continuing construction planning activities serve to further develop construction plans and keep the construction plans in line with latest engineering. Detailed site specific engineering began in January 2011 and was brought to 70% completion in December 2013. Commercial building design activities started in June 2012. Design of the first six commercial buildings was completed in December 2013.

Operational Planning – includes activities associated with operator and plant staff training, including costs associated with the Knowledge and Abilities Catalog, required for operator license examinations for AP1000 plants, and the standardization of the nomenclature in the Westinghouse Master Equipment List (MEL). Continuing activities include: supporting operations program development, such as Quality Assurance (QA) Program, and the review of approximately 500 procedures. The training materials, operational programs, and operating procedures are all being developed in concert with other AP1000 utilities within the APOG framework. The *Operational Planning* category also includes generation of administrative procedures that must be in place upon receipt of COL from NRC.

Post COL – A Combined Construction Permit and Operating License (COL) was received for the Lee AP1000 Project in December 2016. Design finalization and first-of-a-kind construction issues at the lead plants (Summer 2 and 3, Vogtle 3 and 4) required Westinghouse to make numerous changes to the AP1000 design. Design changes were issued as the lead plants advanced towards completion. License change packages were assembled to start the process of aligning the Lee COL with the lead plant COL. Construction of the Summer units was cancelled by the owners in 2017. Duke Energy Carolinas filed its Request for Approval to Cancel the Lee Nuclear Project on August 25, 2017 in Docket Nos. E-7, Sub 819 and E-7, Sub 1146. Submittal of an annual FSAR update and recurring regulatory reporting are required to maintain the COL.

Allocate – Labor burdens and allocated labor. This category had previously been manually spread to create the NCUC report. It has been determined that it is more accurate to show these charges in a separate bucket.

Preconstruction Costs for Lee Nuclear Station Project Development Activities January 1, 2011 - December 31, 2017 February 1, 2018

*Charges for LCOLAEPC (Engineering, Procurement and Construction Release to COL) are now being reported in Supply Chain, Construction Planning, and Detailed Engineering.

CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Carolinas, LLC's Report of Preconstruction Costs for Lee Nuclear Station Project Development Activities, in Docket No. E-7, Sub 819, has been served by electronic mail, hand delivery, or by depositing a copy in the United States Mail, 1st Class Postage Prepaid, properly addressed to the following parties of record:

David Drooz NCUC – Public Staff 4326 Mail Service Center Raleigh, NC 27699-4300 david.drooz@psncuc.nc.gov

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Wells Eddleman 811 Yancy Street Durham, NC 27701-3151

This the 1st day of February, 2018.

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