

**BEFORE THE NORTH CAROLINA UTILITIES COMMISSION**

**DOCKET NO. E-7, SUB 1214**

In the Matter of:	)	
	)	<b>DIRECT TESTIMONY OF</b>
Application of Duke Energy Carolinas, LLC	)	<b>JANE L. MCMANEUS</b>
For Adjustment of Rates and Charges	)	<b>FOR DUKE ENERGY</b>
Applicable to Electric Service in North	)	<b>CAROLINAS, LLC</b>
Carolina	)	

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**I. INTRODUCTION AND PURPOSE**

1 **Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND**  
2 **CURRENT POSITION.**

3 A. My name is Jane L. McManeus and my business address is 550 South  
4 Tryon Street, Charlotte, North Carolina. I am a Director of Rates &  
5 Regulatory Planning, employed by Duke Energy Carolinas, LLC,  
6 testifying on behalf of Duke Energy Carolinas (“DE Carolinas” or the  
7 “Company”).

8 **Q. WHAT ARE YOUR RESPONSIBILITIES IN THIS ROLE?**

9 A. I have responsibility for certain rider filings for both Duke Energy  
10 Carolinas, LLC and Duke Energy Progress, LLC, including the Fuel Cost  
11 Adjustment Riders, the Renewable Energy Portfolio Standard Riders, and  
12 the Joint Agency Asset Rider.

13 **Q. PLEASE BRIEFLY DESCRIBE YOUR EDUCATIONAL**  
14 **BACKGROUND AND PROFESSIONAL EXPERIENCE.**

15 A. I graduated from Wake Forest University with a Bachelor of Science  
16 degree in Accountancy and received a Master of Business Administration  
17 degree from the McColl Graduate School of Business at Queens  
18 University of Charlotte. I am a certified public accountant licensed in the  
19 state of North Carolina and am a member of the Southeastern Electric  
20 Exchange Rates and Regulation Section. I began my career with Duke  
21 Power Company (“Duke Power”) (now known as Duke Energy Carolinas)  
22 in 1979 as a staff accountant and have held a variety of positions in the

1 finance organizations. From 1994 until 1999, I served in financial  
2 planning and analysis positions within the electric transmission area of  
3 Duke Power. I was named Director, Asset Accounting for Duke Power in  
4 1999 and appointed to Assistant Controller in 2001. As Assistant  
5 Controller, I was responsible for coordinating Duke Power's operational  
6 and strategic plans, including development of the annual budget and  
7 performing special studies. I joined the Rates Department in 2003 as  
8 Director, Rate Design and Analysis. In April 2006, I became Director,  
9 Regulatory Accounting and Filings, leading the regulatory accounting,  
10 cost of service, regulatory filings, and revenue analysis functions for DE  
11 Carolinas. I began my current position in the Rates Department in  
12 October 2006.

13 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS**  
14 **COMMISSION RELATING TO YOUR CURRENT**  
15 **RESPONSIBILITIES?**

16 A. Yes. I have testified before this Commission regarding DE Carolinas'  
17 previous general rate case proceedings in Docket Nos. E-7, Sub 1146 (the  
18 "2017 Rate Case"); E-7, Sub 1026 (the "2013 Rate Case"); E-7, Sub 989;  
19 and E-7, Sub 909. I have regularly testified before this Commission in  
20 rider proceedings, most recently including Docket Nos. E-7, Subs 934,  
21 936, 941 and 979.

1 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS**  
2 **PROCEEDING?**

3 A. The purpose of my testimony is to discuss the results of DE Carolinas'  
4 operations under present rates based on an adjusted historical Test Period  
5 using the twelve-month period ended December 31, 2018 (the "Test  
6 Period"). I discuss the additional revenue required as a result of the cost  
7 of service based on the pro forma costs in the Test Period. I discuss  
8 several pro forma adjustments to the Company's Test Period operating  
9 expenses and rate base. I request permission to defer as a regulatory asset  
10 certain severance costs incurred during the Test Period to be amortized  
11 over a 3-year period. I explain the Company's request for approval to  
12 defer certain costs related to investments in the transmission and  
13 distribution grid under the Company's Grid Improvement Plan. I also  
14 request authorization to continue deferring costs related to compliance  
15 with coal ash regulations beyond the proposed January 31, 2020 cut-off in  
16 this case. In addition, I discuss the inclusion of the costs in this request  
17 related to a new solar generation facility owned by DE Carolinas, and the  
18 Company's proposal for recovery of costs related to the recent sale of  
19 certain hydroelectric generation facilities. Finally, I propose a rider to  
20 refund federal and state income tax related amounts owed to customers as  
21 a result of the 2017 Tax Cuts and Jobs Act and recent reductions to North  
22 Carolina state income tax rates.

1 **Q. DOES YOUR TESTIMONY INCLUDE ANY EXHIBITS?**

2 A. Yes. I have included four exhibits. McManeus Exhibit 1 sets forth the  
3 operating results under current and proposed base rates. McManeus  
4 Exhibit 2 summarizes the total revenue adjustments proposed in this  
5 proceeding, including the proposed increase in base rates and the  
6 reduction in revenues reflected in the proposed rider. McManeus Exhibit  
7 3 supports the cost of recently constructed solar facilities for which the  
8 Company requests recovery in this proceeding. McManeus Exhibit 4  
9 illustrates the proposed rider to refund Excess Deferred Income Taxes  
10 (EDIT) to customers.

11 **Q. WERE THESE EXHIBITS PREPARED BY YOU OR UNDER**  
12 **YOUR DIRECTION AND SUPERVISION?**

13 A. Yes. McManeus Exhibits 1 through 4 were prepared under my  
14 supervision.

15 **Q. DID YOU PROVIDE ANY INFORMATION INCLUDED IN THE**  
16 **APPLICATION?**

17 A. Yes. I provided the pro forma adjustment work papers included in Item 10  
18 of the Form E-1, filed with the Company's Application to Adjust Retail  
19 Rates, Request for an Accounting Order and to Consolidate Dockets (the  
20 "Application").

1           **II.     DETERMINING THE REVENUE REQUIREMENT**

2     **Q.     WHAT IS THE REVENUE REQUIREMENT AND HOW DID DE**  
3     **CAROLINAS CALCULATE IT?**

4     A.     The revenue requirement represents the annual revenues necessary for the  
5           Company to recover its operating expenses (including depreciation and  
6           taxes) and provide its investors with a fair rate of return on the investment  
7           in rate base. DE Carolinas determined its operating costs by identifying  
8           depreciation and amortization expense, operations and maintenance  
9           expense (“O&M”), fuel expense, taxes, and other expenses charged to  
10          utility operations and recorded in its accounting records for the Test  
11          Period. The amount of rate base is determined by adding the year-end  
12          balances in the Company’s accounting records of plant in service,  
13          accumulated depreciation, materials and supplies (including fuel  
14          inventory) and components of working capital less deferred taxes and  
15          operating reserves, including certain regulatory assets and liabilities.  
16          Next, a cost of service study is prepared that allocates and assigns these  
17          actual Company operating costs and rate base amounts to determine the  
18          per book cost for providing electric service to the Company’s North  
19          Carolina retail operations. The cost of service studies, filed as Item 45 of  
20          DE Carolinas’ Form E-1, were reviewed by Witness Hager and she  
21          describes the allocation process and methodologies used by the Company  
22          in this proceeding within her testimony.

1           Following the cost of service study, the actual Test Period expense  
2           and rate base levels, as allocated to the North Carolina retail operations,  
3           were adjusted for known and measurable changes, as described below and  
4           in the testimony of Witnesses Pirro and McGee. DE Carolinas made  
5           certain accounting and pro forma adjustments to actual operating income  
6           and rate base for the Test Period to reflect known and measurable changes  
7           to (i) normalize for abnormal events; (ii) annualize part year recurring  
8           effects to a full year effect; and (iii) show actual changes in costs,  
9           revenues or the cost of the Company's property used and useful, or to be  
10          used and useful within a reasonable time after the Test Period, in providing  
11          service.

12           After the determination of operating expenses and rate base for the  
13          Company's North Carolina retail operations, rate base is split between the  
14          Company's debt investors and equity investors using the Company's  
15          proposed capital structure of 53 percent equity and 47 percent debt. Then,  
16          the annual cost of debt is calculated. The income available for the  
17          Company's equity investors is determined by subtracting the cost of debt  
18          from the operating income produced by the current revenues received  
19          from North Carolina retail customers less operating expenses. Finally, the  
20          required revenue increase necessary to produce the requested equity return  
21          on the amount of the equity invested in rate base is determined.

22           McManeus Exhibit 1 sets forth the rate base, operating revenues,  
23          operating expenses, and operating income the Company earned during the

1 Test Period and the adjusted amounts the Company supports for use in  
2 calculating its proposed revenue requirement. In my Exhibit 1, I have  
3 indicated by asterisk the items the Company plans to update in this  
4 proceeding.

5 **III. RESULTS OF OPERATIONS UNDER EXISTING AND**  
6 **PROPOSED RATES**

7 **Q. PLEASE DESCRIBE MCMANEUS EXHIBIT 1 TO YOUR**  
8 **TESTIMONY.**

9 A. McManeus Exhibit 1 sets forth the operating results and data required by  
10 Commission Rule R1-17(b) regarding operating income, calculation of  
11 additional revenue requirement, accounting adjustments, and rate base  
12 information. The operating results are based on the Test Period noted  
13 above, using the twelve months ended December 31, 2018, with  
14 appropriate adjustments. This information is also shown on Pages 1  
15 through 4d of Exhibit C of the Company's Application.

16 **Q. PLEASE EXPLAIN WHAT IS PRESENTED ON PAGE 1 OF**  
17 **MCMANEUS EXHIBIT 1 ENTITLED "OPERATING INCOME**  
18 **FROM ELECTRIC OPERATIONS."**

19 A. Page 1 summarizes the Company's operating income from electric  
20 operations for the Test Period both for total Company operations and  
21 North Carolina retail operations before the necessary accounting  
22 adjustments. It also shows the Company's operating income from electric  
23 operations for North Carolina retail operations after the necessary



1 accounting adjustments and the rate of return on North Carolina retail rate  
2 base the Company would earn in the Test Period after reflecting those  
3 adjustments.

4 Column 1 and 2 set forth the actual operating revenues, expenses  
5 and rate base from the per book cost of service study (Form E-1, Item 45a)  
6 for the Company and for its North Carolina retail jurisdiction, respectively.

7 Column 3 summarizes the accounting adjustments allocated to  
8 North Carolina retail operations necessary to reflect a representative level  
9 of operating income and rate base based on known changes in costs.  
10 These adjustments are shown on McManeus Exhibit 1, Page 3 and are  
11 explained later in my testimony.

12 Column 4 shows adjusted North Carolina retail operations.

13 Column 5, Line 1 shows the additional base rate revenue requested  
14 in this proceeding of \$445.3 million. This is the increase in revenues  
15 justified as necessary to cover the Company's cost of service, including a  
16 rate of return on members' equity of 10.30 percent as discussed in the  
17 testimony of Witnesses Newlin and Hevert. Column 5 also shows the  
18 effect of the revenue increase on the North Carolina Utilities Commission  
19 ("NCUC") regulatory fee, uncollectibles expense, income taxes, and cash  
20 working capital.

21 Column 6, Line 11 shows adjusted operating income after the  
22 proposed increase in revenues. Column 6, Line 12 shows the adjusted  
23 retail rate base. Dividing operating income by rate base produces the 7.58

1 percent overall rate of return that the Company is justifying in this case, as  
2 shown in Column 6, Line 13.

3 **Q. PLEASE EXPLAIN WHAT IS PRESENTED ON PAGE 2 OF**  
4 **MCMANEUS EXHIBIT 1 ENTITLED “CALCULATION OF**  
5 **ADDITIONAL REVENUE REQUIREMENT.”**

6 A. Page 2 sets forth the calculation of the additional revenue requirement  
7 necessary to produce a 10.30 percent rate of return on members’ equity  
8 using the format required by Commission Rule R1-17(b)(9)e. To develop  
9 this figure, the North Carolina retail rate base was allocated to its capital  
10 source components of long-term debt and members’ equity. This  
11 allocation was based on the capitalization ratios of 47 percent long-term  
12 debt and 53 percent members’ equity. Witness Newlin discusses and  
13 supports these ratios in his testimony.

14 The amount of operating income needed to cover interest  
15 applicable to North Carolina retail rate base was computed using the  
16 embedded cost of long-term debt rate. This amount is shown in Columns  
17 4 and 7 on Line 1. Operating income needed to cover interest, shown in  
18 Columns 5 and 8 on Line 1, was deducted from total operating income  
19 shown in Column 5 on Line 3, to derive operating income remaining for  
20 members’ equity at present rates as shown in Column 5 on Line 2.

21 Applying the 10.30 percent rate of return on members’ equity to  
22 that portion of the North Carolina retail rate base financed by members’

1 equity, shown in Column 6, Line 2 produces the operating income  
2 requirement for members' equity as shown in Column 8, Line 2.

3 The total operating income requirement shown in Column 8, Line  
4 3 is the sum of the requirements for long-term debt and members' equity.  
5 Comparing the operating income requirement to the operating income  
6 before the proposed increase in Column 5, Line 3 results in the additional  
7 operating income requirement shown in Column 8, Line 5. To realize this  
8 additional operating income, the Company must also collect in revenues  
9 the increase for the NCUC regulatory fee (less the uncollectible rate) at a  
10 rate of 0.12967 percent, uncollectibles expense at a rate of 0.2501 percent,  
11 state and federal income taxes at a composite rate of 23.3503 percent, and  
12 the return on cash working capital requirements. The additional operating  
13 income requirement and the additional taxes and fees produces an  
14 additional revenue requirement of \$445.3 million.

15 **Q. PLEASE EXPLAIN THE PURPOSE OF MCMANEUS EXHIBIT 2.**

16 A. McManeus Exhibit 2 summarizes the total change in revenue requirement  
17 requested in this proceeding. As stated above, the requested increase in  
18 revenues from base rates is \$445.3 million. In addition to increased  
19 revenue from tariff rates for electric service, the Company requests that  
20 customer rates be reduced by \$154.6 million, through an EDIT Rider, for  
21 amounts owed to customers related to EDIT. This rider is discussed in  
22 detail later in my testimony. As shown on McManeus Exhibit 2, the total  
23 proposed increase in revenue is \$290.8 million.

1 **Q. HOW IS THIS ADDITIONAL REVENUE REQUIREMENT**  
2 **ALLOCATED AMONG THE CLASSES AND USED TO DEVELOP**  
3 **THE TARGET REVENUE REQUIREMENT FOR RATE DESIGN?**

4 A. Witness Pirro's Exhibit 4 shows how the additional revenue requirement is  
5 spread among the classes and how the target revenue requirements for rate  
6 design are established.

7 **IV. ACCOUNTING AND PRO FORMA ADJUSTMENTS**

8 **Q. PLEASE EXPLAIN PAGE 3 OF MCMANEUS EXHIBIT 1**  
9 **CAPTIONED "DETAIL OF ACCOUNTING ADJUSTMENTS-**  
10 **NORTH CAROLINA RETAIL."**

11 A. Page 3 sets forth the individual accounting and pro forma adjustments to  
12 operating revenues, expenses and rate base, including the income tax  
13 effects for North Carolina retail electric operations, that were shown in  
14 total on Page 1 of McManeus Exhibit 1 in Column 3. The totals of the  
15 columns shown on Line 35 of Page 3 are the amounts carried forward to  
16 Column 3 of Page 1 of McManeus Exhibit 1.

17 **Q. PLEASE LIST THESE ACCOUNTING AND PRO FORMA**  
18 **ADJUSTMENTS.**

19 A. The accounting and pro forma adjustments that were made by the  
20 Company are as follows (the chart below indicates which witness is  
21 sponsoring each adjustment):

<b>ADJUSTMENTS TO OPERATING REVENUES AND EXPENSES</b>		
<b>(Page 3 of McManeus Exhibit 1)</b>		
<b>Line No.</b>	<b>Adjustment Title</b>	<b>Witness</b>
1	Annualize retail revenues for current rates	Pirro
2	Update fuel costs to proposed rate	McGee
3	Normalize for weather	McManeus
4	Annualize revenues for customer growth	Pirro
5	Eliminate unbilled revenues	McManeus
6	Adjust for costs recovered through non-fuel riders	McManeus
7	Adjust O&M for executive compensation	McManeus
8	Annualize depreciation on year end plant balances	McManeus
9	Annualize property taxes on year end plant balances	McManeus
10	Adjust for post-test year additions to plant in service	McManeus
11	Amortize deferred environmental costs	McManeus
12	Annualize O&M non-labor expenses	McManeus
13	Normalize O&M labor expenses	McManeus
14	Update benefits costs	McManeus
15	Levelize nuclear refueling outage costs	McManeus
16	Amortize rate case costs	McManeus
17	Adjust aviation expenses	McManeus
18	Adjust for approved regulatory assets and liabilities	McManeus
19	Adjust for merger related costs	McManeus
20	Amortize severance costs	McManeus
21	Adjust for NC income tax rate change	McManeus
22	Synchronize interest expense with end of period rate base	McManeus
23	Adjust cash working capital for present revenue annualized and proposed revenue	McManeus
24	Adjust coal inventory	McManeus

<b>ADJUSTMENTS TO OPERATING REVENUES AND EXPENSES</b>		
<b>(Page 3 of McManeus Exhibit 1)</b>		
<b>Line No.</b>	<b>Adjustment Title</b>	<b>Witness</b>
25	Adjust credit card fees	McManeus
26	Adjust for new depreciation rates	McManeus
27	Adjust vegetation management expenses	McManeus
28	Adjust reserve for end of life nuclear costs	McManeus
29	Update deferred balance and amortize storm costs	McManeus
30	Adjust other revenue	Pirro
31	Adjust for change in NCUC regulatory fee	McManeus
32	Adjust for hydro stations sale	McManeus

1 **Q. IN CALCULATING THE TOTAL REVENUE REQUIREMENT IN**  
2 **THIS PROCEEDING, DID YOU REVIEW EACH OF THE**  
3 **ACCOUNTING AND PRO FORMA ADJUSTMENTS?**

4 A. Yes. I did.

5 **Q. IN YOUR OPINION, DO THESE ACCOUNTING AND PRO**  
6 **FORMA ADJUSTMENTS REFLECT KNOWN AND**  
7 **MEASURABLE CHANGES TO THE COMPANY'S TEST PERIOD**  
8 **OPERATING EXPENSES, REVENUES, AND RATE BASE?**

9 A. Yes. The adjustments set forth on Page 3 of McManeus Exhibit 1, as more  
10 fully supported below and in the testimonies of Witnesses McGee and  
11 Pirro, reflect known and measurable changes to the Company's Test  
12 Period revenues, expenses, and rate base.

1 **Q. PLEASE DESCRIBE THE PRO FORMA ADJUSTMENTS YOU**  
2 **ARE SUPPORTING.**

3 A. The following are descriptions of the pro forma adjustments:

4 **1. Annualize retail revenues for current rates**

5 This adjustment annualizes revenue based on the base rates in effect at the  
6 time of the application. In addition, the adjustment revises the fuel  
7 component of base rates. The adjustment removes Test Period revenues  
8 recovered through the Demand Side Management/Energy Efficiency  
9 (“DSM/EE”) Rider, REPS Rider, BPM Prospective Rider and BPM True-  
10 up Rider (“the BPM Riders”), Existing DSM Program Rider, Job  
11 Retention Recovery Rider, EDIT-1 Rider, Coal Inventory Rider, and fuel  
12 Experience Modification Factor (“EMF”). This adjustment also includes  
13 the removal of the provision for rate refund recorded in the test period  
14 related to the federal tax rate change. This adjustment to revenues is  
15 discussed in more detail in the testimony of Witness Pirro.

16 **2. Update fuel costs to proposed rate**

17 This adjustment adjusts fuel clause expense during the Test Period to  
18 match the fuel clause revenues included in Adjustment Line 1. By  
19 matching the expenses to the revenue, the adjustment ensures that no  
20 increase is requested in this proceeding related to fuel and fuel-related  
21 expenses that are recoverable through the fuel clause. This adjustment is  
22 described in more detail in Witness McGee’s testimony.

1           **3. Normalize for weather**

2           This adjustment adjusts revenue to normalize for the impacts of weather.  
3           The kWh weather adjustment was developed based on a 30-year history of  
4           weather. This kWh adjustment was then multiplied by an average rate for  
5           each class to derive the adjustment to revenue. The average rate is based  
6           on annualized Test Period revenues at current base rates, therefore  
7           excluding the rates for the riders identified in Adjustment 1. However,  
8           since the rate includes the base fuel rate proposed in this case, an  
9           adjustment is also made to fuel expense to reflect the change in kWh due  
10          to weather adjustment.

11          **4. Annualize revenues for customer growth**

12          This adjustment annualizes revenue to reflect expected changes in Test  
13          Period kWh sales related to changes in number of customers and usage per  
14          customer, using actual and estimated 2019 data and weather-normalized  
15          values. The net kWh adjustment was then multiplied by an average rate  
16          for each class to derive the adjustment to revenue. The average rate is  
17          based on annualized Test Period revenues at current base rates, therefore  
18          excluding the rates for the riders identified in Adjustment 1. However,  
19          since the rate includes the base fuel rate proposed in this case, an  
20          adjustment is also made to fuel expense to reflect the annualized change in  
21          kWh. This adjustment is described in more detail in Witness Pirro's  
22          testimony.

23



1           **5. Eliminate unbilled revenues**

2           This adjustment eliminates unbilled revenue and related taxes recorded by  
3           the Company in the Test Period.

4           **6. Adjust for costs recovered through non-fuel riders**

5           This adjustment removes expense and rate base items recovered through  
6           the Company's non-fuel riders. The revenues, expenses and rate base  
7           items, if applicable, in each of these riders are reviewed each year in  
8           annual rider proceedings and should not impact the increase requested in  
9           this proceeding. Any deferred revenues related to these riders are also  
10          removed in this adjustment.

11          **7. Adjust O&M for executive compensation**

12          This adjustment removes 50 percent of the compensation of the five Duke  
13          Energy executives with the highest level of compensation allocated to DE  
14          Carolinas in the Test Period. While the Company believes these costs are  
15          reasonable, prudent and appropriate to recover from customers, we have,  
16          for purposes of this case, made an adjustment to this item.

17          **8. Annualize depreciation on year end plant balances**

18          This adjustment reflects the annualization of depreciation expense using  
19          the current depreciation rates applied to the end of the Test Period level of  
20          plant in service. During the Test Period, the Company recorded  
21          depreciation for plant additions from the point in time when they went into  
22          service. This adjustment annualizes depreciation expenses to reflect a full  
23          year level of depreciation on plant in service as of the end of the Test

1           Period using the depreciation rates that were in effect by the end of the  
2           Test Period. Amounts for changes in solar depreciation expense included  
3           in this adjustment exclude the portion of costs expected to be recovered  
4           through the REPS Rider. Amounts for changes in catalyst depreciation  
5           expense are excluded from this adjustment due to catalyst depreciation  
6           expense being recovered through the Fuel Clause.

7           **9. Annualize property taxes on year end plant balances**

8           This adjustment annualizes Test Period property taxes on plant in service  
9           at December 31, 2018. Property taxes expensed in calendar year 2018  
10          were assessed based on property balances at the end of 2017. Likewise,  
11          property taxes to be expensed in calendar year 2019 will be assessed based  
12          on property balances at the end of 2018. This adjustment increases  
13          property tax expense in the Test Period to reflect an annual level of  
14          expense for property taxes based on the end of the Test Period level of  
15          plant investment.

16          **10. Adjust for post-test year additions to plant in service**

17          This adjustment increases operating expenses and rate base for changes in  
18          plant, depreciation expense, and accumulated depreciation the Company  
19          has incurred and will incur from the end of the Test Period through  
20          January 31, 2020. Amounts for changes in solar plant, depreciation  
21          expense, and accumulated depreciation included in this adjustment  
22          exclude the portion of costs expected to be recovered through the REPS

1 Rider. Witnesses Capps, Immel, Schneider and Oliver discuss plant  
2 additions in their testimonies.

3 **11. Amortize deferred environmental costs**

4 In the 2017 Rate Case, the Commission granted the Company authority to  
5 defer in a regulatory asset account certain costs incurred in connection  
6 with compliance with federal and state environmental requirements as it  
7 relates to Coal Combustion Residuals (“CCRs” or “coal ash”). The nature  
8 of these costs is described in more detail in Witnesses Bednarcik and  
9 Immel’s testimony. Most of the deferred compliance costs are related to  
10 ash basin closure and are subject to asset retirement obligation (“ARO”)  
11 accounting per Generally Accepted Accounting Principles (“GAAP”). In  
12 addition, a portion of the deferred amounts are related to the continued  
13 operation of the active plants and are not subject to ARO accounting.  
14 These deferred amounts are revenue requirements related to capitalized  
15 plant in service amounts. No fines, penalties, or costs of which DE  
16 Carolinas has agreed to forego recovery are included in the deferral. This  
17 adjustment amortizes the deferred costs over a 5-year period. The  
18 compliance costs are based on actuals as of the end of the Test Period plus  
19 a projection through January 31, 2020. Over the 5-year amortization  
20 period, the annual amortization expense is \$96.3 million, including  
21 regulatory fee impacts. When added together with the net of tax return on  
22 the unamortized balance of \$27.3 million, the total revenue requirement  
23 requested in this case for deferred coal ash pond closure costs is \$123.6

1 million. The Company requests Commission authorization to continue to  
2 defer this type of environmental cost beyond the January 2020 cutoff  
3 period, for cost recovery consideration in a future rate case.

4 **12. Annualize O&M non-labor expenses**

5 This adjustment annualizes certain Test Period operating and maintenance  
6 expenses to reflect the change in unit costs that occurred during this  
7 period. Operating and maintenance costs addressed in other adjustments  
8 are excluded from this adjustment. The excluded costs include fuel,  
9 purchased power, non-fuel rider costs, nuclear refueling outage costs,  
10 aviation expenses, atypical severance costs, vegetation management  
11 expenses, the NCUC regulatory fee, rate case amortizations, outside tax  
12 services, expiring amortizations, merger related costs, hydro sale related  
13 costs, and labor costs.

14 **13. Normalize O&M labor expenses**

15 This adjustment adjusts the wages and salaries, related employee benefits,  
16 and changes in related payroll taxes to reflect annual levels of costs as of  
17 June 30, 2019. This adjustment also restates variable short and long term  
18 pay to the target level.

19 **14. Update benefits costs**

20 This adjustment updates the Test Period cost of labor-related benefits to  
21 match the result of an updated study performed by the Company's  
22 consultants.

1           **15. Levelize nuclear refueling outage costs**

2           In the Company's 2013 Rate Case, the Commission approved an  
3           accounting mechanism that levelized certain costs related to nuclear  
4           refueling outages. Consistent with the 2017 Rate Case, this adjustment  
5           annualizes the amortization expense related to this mechanism incurred  
6           during the Test Period to the latest known and measurable level  
7           experienced through the capital cutoff period.

8           **16. Amortize rate case costs**

9           This adjustment amortizes the incremental rate case costs incurred for this  
10          docket over a 5-year period.

11          **17. Adjust aviation expenses**

12          This adjustment removes from expense 50% of certain corporate related  
13          aviation expenses incurred in the Test Period.

14          **18. Adjust for approved regulatory assets and liabilities**

15          This adjustment removes from Test Period costs the amortization of  
16          various regulatory assets or liabilities that have been approved by the  
17          Commission in previous general rate case proceedings. The amortization  
18          period for items removed will expire before proposed new rates are  
19          effective, and thus should not be included in Test Period expenses on  
20          which new rates are based. The adjustment also annualizes the Test Period  
21          amortizations that were approved in the 2017 Rate Case.

1           **19. Adjust for merger related costs**

2           This adjustment removes the impact of costs related to the Piedmont and  
3           Progress mergers included in the Test Period, as adjusted by other  
4           proformas.

5           **20. Amortize severance costs**

6           This adjustment removes atypical severance and retention costs included  
7           in the Test Period. The Company is also requesting permission in its  
8           Application to establish a regulatory asset to defer a North Carolina retail  
9           amount of \$69.2 million of severance costs, and to amortize the regulatory  
10          asset over a 3-year period.

11          **21. Adjust for NC income tax rate change**

12          This adjustment adjusts current and deferred income tax expense to reflect  
13          the reduction in the North Carolina income tax rate from 3 percent to 2.5  
14          percent effective January 1, 2019.

15          **22. Synchronize interest expense with end of period rate base**

16          This adjustment adjusts income taxes for the tax effect of the annualization  
17          of interest expense reflected in the pro forma cost of service.

18          **23. Adjust cash working capital for present revenue annualized and**  
19                 **proposed revenue**

20   **24.**

21          This adjustment adjusts cash working capital to incorporate the impact of  
22          the other pro forma adjustments. It also calculates the additional cash

1 working capital required due to the proposed increase in rates. The  
2 adjustment is in accordance with the Commission's March 21, 2016 order  
3 in Docket No. M-100 Sub 137, and is shown on Line 2, Columns 3 and 5,  
4 of McManeus Exhibit 1, Page 4d.

5 **25. Adjust coal inventory**

6 This adjustment increases the Company's actual coal inventory at the end  
7 of the Test Period to reflect a targeted 35-day full load burn for each of the  
8 coal generating plants. This change in coal inventory for the North  
9 Carolina retail jurisdiction is shown on McManeus Exhibit 1, Page 4c,  
10 Line 1, Column 3.

11 **26. Adjust for credit card fees**

12 This adjustment increases operating and maintenance expenses to include  
13 fees the Company incurs related to acceptance of credit card payments. As  
14 described in the testimony of Witness Henning, the Company is proposing  
15 to implement a transaction fee-free payment program for residential  
16 customers. The Company proposes to recover the cost of the program  
17 from all customers.

18 **27. Adjust for new depreciation rates**

19 This adjustment adjusts the annualized depreciation expense to reflect the  
20 new depreciation rates based on the updated depreciation study prepared  
21 by Gannett Fleming and discussed and supported by Witness Spanos. The  
22 proposed new depreciation rates reflect revised life spans for certain coal  
23 plants, as noted by Witness Spanos. Implementing the new depreciation

1 rates will result in an increase to depreciation expense of approximately  
2 \$108.5 million on a system basis, or \$72.1 million on a North Carolina  
3 retail basis. The adjustment also increases depreciation reserves by an  
4 annual amount of the depreciation expense adjustment.

5 **28. Adjust vegetation management expenses**

6 This adjustment increases operating and maintenance expense in the Test  
7 Year to reflect known contract rate increases that took effect in 2019,  
8 which are applicable to completing the target trim mileage in the  
9 Company's on-going vegetation management program's 5/7/9 plan.

10 **29. Adjust reserve for end of life nuclear costs**

11 In the Company's 2013 Rate Case, DE Carolinas established reserves for  
12 end-of-life costs associated with nuclear materials and supplies and with  
13 nuclear fuel. This adjustment adjusts the Test Period amortization  
14 expense, reserve and related taxes to reflect updated estimates of the end-  
15 of-life costs.

16 **30. Amortize deferred storm costs**

17 This adjustment reflects an eight-year amortization of deferred costs  
18 related to incremental storm damage expenses incurred due to Hurricanes  
19 Florence and Michael, and winter storm Diego. These costs are the subject  
20 of the Company's Petition for An Accounting Order filed in Docket No. E-  
21 7, Sub 1187, pending before the Commission, and for which the Company  
22 is requesting consolidation with this proceeding. The Company is  
23 proposing to recover the incremental cost in excess of normal storm



1 expenses, including a return on the unrecovered balance. The Company  
2 proposes to begin amortization of the costs when proposed new base rates  
3 become effective, and to include a return on the deferred balance through  
4 the end of the proposed amortization period. Over the 8-year amortization  
5 period, the North Carolina retail annual amortization expense is \$24.3  
6 million, including regulatory fee impacts. When added together with the  
7 net of tax return on the unamortized balance of \$12.0 million, the total  
8 revenue requirement requested in this case for deferred incremental storm  
9 damage expenses is \$36.3 million.

10 **31. Adjust other revenues**

11 This adjustment reflects proposed reductions to customer fees related to  
12 connection, reconnection, and returned payments, as described by Witness  
13 Pirro in his direct testimony.

14 **32. Adjust for change in NCUC regulatory fee**

15 This adjustment annualizes the Test Period regulatory fee at the current  
16 rate of 0.13 percent.

17 **33. Adjust for sale of hydro stations**

18 This adjustment removes Test Period operating expenses and rate base  
19 amounts related to five hydro stations sold August 16, 2019. The sale of  
20 the facilities and the transfer of the related certificates of convenience and  
21 necessity were approved by the Commission in Docket Nos. E-7, Sub  
22 1181; SP-12478, Sub 0; and SP-12479, Sub 0. In addition, the  
23 Commission approved the establishment of a regulatory asset for the

1 estimated loss on disposition of the facilities. Accordingly, this adjustment  
2 also includes amortization of the estimated loss on the sale over a 7-year  
3 period. This period was selected to closely align the revenue requirement  
4 amount associated with the loss on the sale to the revenue requirement  
5 amount associated with ownership of the facilities.

6 **Q. PLEASE EXPLAIN WHAT IS PRESENTED ON PAGES 4**  
7 **THROUGH 4d OF MCMANEUS EXHIBIT 1.**

8 A. Page 4 shows total Company and North Carolina retail components of  
9 original cost rate base. The total Company amounts and North Carolina  
10 retail components were taken from the Company's Cost of Service Study  
11 as of December 31, 2018.

12 Pages 4a, 4b, 4c, and 4d are details of components making up  
13 original cost rate base as of December 31, 2018 adjusted for known and  
14 measurable changes. On each of these four pages, Column 1 shows the  
15 total Company per book amounts at December 31, 2018; Column 2  
16 reflects the amount for North Carolina retail electric operations; Column 3  
17 sets forth the accounting adjustments allocated to North Carolina retail  
18 operations; and Column 4 reflects the North Carolina retail amounts  
19 including adjustments.

20 Page 4a is a summary of the Company's investment in electric  
21 plant in service as of December 31, 2018 by functional classification.

22 Page 4b details accumulated depreciation and amortization for each of the  
23 classes of electric plant in service. The depreciation rates for each class of

1 property are shown at the bottom of the page on Lines 8 through 15.  
2 These depreciation rates are supported by Witness Spanos. Page 4c is a  
3 summary of the Company's investment in materials and supplies as of  
4 December 31, 2018 included in rate base. Page 4d reflects the working  
5 capital investment included in rate base.

6 **V. UTILITY-OWNED SOLAR FACILITIES**

7 **Q. PLEASE DISCUSS THE CONDITIONS AFFECTING COST**  
8 **RECOVERY OF THE COMPANY'S NEW SOLAR FACILITY?**

9 A. Since its last general rate case, DE Carolinas has placed in service one  
10 utility scale solar facility, Woodleaf Solar ("Woodleaf"). A certificate of  
11 Public Convenience & Necessity ("CPCN") was received for this facility  
12 in Docket No. E-7, Sub 1101. The Commission's order in that docket  
13 included several conditions. One condition requires DE Carolinas, in  
14 REPS Rider and general rate case proceedings, to itemize the actual  
15 monetization of certain tax benefits within its calculation of the levelized  
16 revenue requirement for each facility. Another condition requires that the  
17 incremental costs recovered through the REPS Rider be capped, and that  
18 the additional revenue requirements that exceed avoided costs and the  
19 REPS cost cap will be recovered only in base rates, based on the  
20 reasonableness and prudence of the additional costs. In addition, it is  
21 required that the costs recovered through base rates should be allocated  
22 among jurisdictions and customer classes in the same manner as any other  
23 plant in DE Carolinas' generation portfolio, and that the reasonableness

1 and prudence of DE Carolinas' costs associated with the facilities and the  
2 methodology for recovering those costs should be addressed in future  
3 REPS Rider and general rate case proceedings. Finally, the Commission  
4 requires DE Carolinas to file a final cost accounting report within 180  
5 days of the completion of construction of the projects.

6 **Q. HAS THE COMPANY COMPLIED WITH THESE CONDITIONS?**

7 A. Yes. In DE Carolinas' REPS Rider filing in Docket E-7, Sub 1191, the  
8 Company provided Williams Exhibit 7 incorporating the most current tax  
9 benefit monetization assumptions into the levelized revenue requirement  
10 shown for Woodleaf. Attached as McManeus Exhibit 3 is an update of the  
11 information previously included in Williams Exhibit 7, based on the  
12 revised costs filed in the June 20, 2019 cost accounting report.

13 Because Woodleaf was placed in service in late December 2018,  
14 before the end of the Test Period, Woodleaf costs are included in the Test  
15 Period amounts reflected in the cost of service studies and revenue  
16 requirement in this proceeding. The Company has excluded amounts that  
17 will be recovered through the REPS Rider. The amounts excluded  
18 represent the portion of project costs in excess of avoided cost but within  
19 the agreed upon REPS cap associated with these facilities. The Company  
20 has allocated the costs included in its proposed revenue requirements in  
21 this proceeding in the manner that it allocates the cost of other generating  
22 plants.

1           **WHAT IS THE COMPANY'S POSITION REGARDING THE**  
2           **PRUDENCY AND REASONABLENESS OF THE ABOVE-**  
3           **DESCRIBED COSTS FOR WHICH THE COMPANY IS**  
4           **REQUESTING RECOVERY IN THIS PROCEEDING?**

5    A.    DE Carolinas considers the costs to be reasonable and prudently incurred.  
6           In its 2019 REPS Rider filing, the Company updated its assumptions  
7           regarding timing of realization of tax benefits and explained any  
8           differences between original assumptions and updated assumptions. In  
9           filed testimony the Company noted no change in the assumptions  
10          regarding MACRS depreciation and 80% property tax abatement. The  
11          Company reported that the realization of certain other tax benefits has  
12          been delayed beyond the dates originally assumed at the time of the CPCN  
13          filings. The delay is because the Company anticipates lacking sufficient  
14          taxable income against which it can take federal investment tax credit for  
15          several more years. This circumstance is directly related to tax law  
16          changes regarding federal bonus depreciation. Although federal bonus  
17          depreciation is not one of the tax benefits to which the Commission's  
18          conditions in its CPCN orders applies, nor does it apply to the Woodleaf  
19          facility, because of changes in federal tax law, several of the Company's  
20          assets qualify for bonus depreciation, thereby reducing the Company's  
21          taxable income. In addition, the reduction of the federal income tax rate  
22          and the elimination of the federal Section 199 deduction results in  
23          increased levelized revenue requirements related to the Woodleaf facility.

1           The reduction in income tax rates affects two components for the revenue  
2           requirement calculation: 1) the rate base amount is increased by the lower  
3           accumulated deferred income taxes associated with the facility; and 2) the  
4           income tax associated with the equity return is decreased. The net impact  
5           is a small increase in levelized revenue requirement. The completed  
6           project costs for Woodleaf are lower than originally estimated. As a result,  
7           the updated revenue requirement, based on actual project costs and  
8           updated tax benefit assumptions, is not materially different from the  
9           originally estimated revenue requirement, as shown on McManeus Exhibit  
10          3.

11                        Because the delay in realization of certain other tax benefits is the  
12           direct consequence of the extension of another federal tax benefit to the  
13           projects (federal bonus depreciation), and the impact of the change in  
14           federal tax rate and elimination of a federal tax deduction cannot be  
15           avoided, the Commission should conclude that the costs of the Woodleaf  
16           facility investment were reasonably and prudently incurred, and therefore  
17           eligible for recovery.

1 **VI. EXCESS DEFERRED INCOME TAX (“EDIT”) RIDER**

2 **Q. HOW HAS THE COMPANY ADJUSTED ITS RATES TO**  
3 **REFLECT THE TAX IMPACTS OF THE TAX CUTS AND JOBS**  
4 **ACT?**

5 A. In its most recent general rate case in Docket No. E-7 Sub 1146, the  
6 Company adjusted its rates to reflect reduced income tax expense related  
7 to the reduction in federal income tax rate, from 35% to 21%, as provided  
8 in the Tax Cuts and Jobs Act (“Tax Act”) which became law December  
9 22, 2017. The rates approved by the Commission and implemented August  
10 2018 were reduced to reflect lower federal income taxes. The lower  
11 federal tax rate continues to be reflected in proposed rates in this  
12 proceeding.

13 In its order in the 2017 Rate Case, the Commission also addressed  
14 the disposition of EDIT that resulted from the reduction in the federal  
15 income tax rate; ordering that the Company should maintain the EDIT in a  
16 regulatory liability account for three years or until its next general rate  
17 case, whichever is sooner. In compliance, in this proceeding, the  
18 Company is proposing a method of returning EDIT to its customers  
19 through a rider.

20 **Q. PLEASE EXPLAIN THE COMPANY’S PROPOSED EDIT RIDER.**

21 A. In his direct testimony, Witness Panizza discusses in detail the  
22 implications of the Tax Act and North Carolina retail’s share of the federal  
23 income tax amounts that are addressed in the EDIT Rider (also referred to

1 as EDIT-2 in Rate Design exhibits). The Rider contains the following five  
2 categories of benefits for customers, of which the first three are discussed  
3 by Witness Panizza in his testimony:

- 4 1. Federal EDIT - Protected
- 5 2. Federal EDIT – Unprotected, PP&E related
- 6 3. Federal EDIT – Unprotected, non-PP&E related
- 7 4. Deferred revenue - Federal income tax
- 8 5. NC EDIT

9 Federal EDIT – Protected, Unprotected PP&E related, and Unprotected,  
10 non-PP&E related

11 At the end of 2018, the Company had a certain amount of Accumulated  
12 Deferred Income Taxes (“ADIT”) on its balance sheet. These are income  
13 taxes the Company has expensed for accounting purposes and collected  
14 from customers, but will not need to pay the IRS until some point in the  
15 future. Because the Company has use of this cash for a period of time,  
16 until it must pay the IRS, the ADIT is included as a reduction to rate base  
17 and is a source of financing for investments used to benefit customers –  
18 poles, lines, generating plant, etc. With the change in the federal tax rate,  
19 the amount of income tax that the Company must pay the IRS in the future  
20 has been reduced, and must be remeasured. At the end of 2018, the  
21 Company calculated this reduction and the difference was reclassified  
22 from ADIT to EDIT, although both ADIT and EDIT remain components  
23 of rate base. Instead of having an obligation to pay the EDIT amount to



1 the IRS in the future, the Company now has an obligation to refund it to  
2 customers. Within EDIT, there are three subcategories, as described by  
3 Company Witness John Panizza.

- 4       ▪ Protected – These amounts are generally related to Property, Plant  
5       & Equipment (“PP&E”) and there are specific IRS requirements  
6       mandating that this amount be returned to customers no more  
7       quickly than as prescribed by the IRS. The amortization period the  
8       Company is using for Protected EDIT is called the Average Rate  
9       Assumption Method (“ARAM”) and results in a Year 1  
10      amortization rate for this category of 2.53 percent. Also, as  
11      Witness Panizza notes, protected amounts ultimately become  
12      unprotected over time. As such, the Company estimated this  
13      amount and captured this transition from the Protected to  
14      Unprotected category on McManeus Exhibit 4, Page 1, Line 3.
- 15      ▪ Unprotected PP&E related – These amounts are also related to  
16      PP&E but do not fall under the IRS guidelines for protected status.  
17      Because the Company would have paid these amounts to the IRS  
18      over the remaining life of the underlying property, the Company is  
19      proposing to return these amounts to customers over a 20-year  
20      period. As noted by Witness Panizza, this approach balances the  
21      customer and the Company’s interests; minimizing customer rate  
22      volatility and addressing the Company’s cash flow concerns.

1           ▪ Unprotected non-PP&E related – These amounts are not related to  
2 property, plant and equipment, but are related to items such as  
3 regulatory assets and liabilities, and other balance sheet items. As  
4 noted by Witness Panizza, these items have an average life of  
5 approximately 7½ years. The Company is proposing to return these  
6 amounts to customers over a 5-year period. In addition, the  
7 Company has included in this category amounts transitioning from  
8 the Protected category to Unprotected status.

9   NC EDIT

10           Like the EDIT that results from the reduction in the federal corporate  
11 income tax rate, there are EDIT balances that resulted from the reduction  
12 in the North Carolina state corporate tax rate. In the 2017 Rate Case, the  
13 Commission approved a 4-year State EDIT rider to return EDIT resulting  
14 from reductions in state tax rate in prior years. The State EDIT rider  
15 currently in place does not include EDIT related to the reduction in North  
16 Carolina state corporate tax rate from 3% to 2.5% effective January 1,  
17 2019. The Company is proposing to incorporate the refund of these new  
18 state EDIT in the EDIT rider proposed in this case, over a 5-year period.

19   Deferred Revenue

20           As directed in Docket No. M-100, Sub 148, the Company began deferring,  
21 effective January 1, 2018, the impact on customer rates of the reduction in  
22 the federal corporate income tax rate from 35% to 21%. Beginning  
23 August 1, 2018, new rates approved by the Commission in Docket No. E-

1 7, Sub 1146 reflected the lower federal tax rate. After August 1, deferral  
2 amounts are related to continuing accrual of returns on the deferral  
3 balance. McManeus Exhibit 4, Page 1, Line 8, shows the projected  
4 balance of this liability as of January 31, 2020. The Company proposes to  
5 refund this amount to customers over a 5-year period. The Company will  
6 continue to defer the impact from February 1, 2020 through the new rates  
7 effective date in this case. Those additional amounts are not being  
8 estimated now, but will be included in the Year 2 EDIT rider calculation.

9 **Q. PLEASE EXPLAIN HOW THESE FIVE CATEGORIES OF**  
10 **BENEFITS WILL BE INCORPORATED INTO THE EDIT RIDER.**

11 A. The proposed rider will include the annual amortization for each of these  
12 five categories of benefits. The North Carolina retail amounts can be seen  
13 on McManeus Exhibit 4, Page 1, Columns A through E. Since these EDIT  
14 amounts are a reduction in rate base, as these amounts are refunded to  
15 customers, rate base will increase. As such, the rider also calculates the  
16 adjustment to return on rate base related to the increase in rate base  
17 resulting from the refund of EDIT to customers. This is shown in  
18 McManeus Exhibit 4, Page 2, Column L. Column M shows the revenue  
19 requirement equal to the sum of the amortization and return. Column N  
20 shows the revenue requirement grossed up for NCUC regulatory fee and  
21 uncollectible expense. The amount in the Year 1 row on McManeus  
22 Exhibit 4, Page 2 of \$154.6 million decrease is the rider amount that is  
23 being proposed in this case.

1           The Year 1 rider amounts are based on the balance of EDIT at  
2           December 31, 2018 as described by Witness Panizza, and are updated to  
3           reflect the expected balance at July 31, 2020, when the proposed rider is  
4           expected to be implemented. This projection will be further updated to  
5           reflect actual January 31, 2020 balances, as well as the latest ARAM rate,  
6           prior to the hearing.

7           Years 2 through 5 are shown for illustrative purposes. The actual  
8           rider amounts for those years may change based on several factors. First, if  
9           there are additional adjustments to any of the balances on Rows 1 through  
10          5 of McManeus Exhibit 4, the annual amortization amounts will be  
11          recalculated to accommodate the change in balance.

12          A second factor that would impact the calculation of the rider  
13          beyond Year 1 is changes in the ARAM rate. The Company updates this  
14          rate annually and the most current rate must be used when establishing  
15          customer rates.

16          A third factor that would impact the calculation of the rider beyond  
17          Year 1 is the impact of future rate cases. In future rate cases, the EDIT  
18          balance in base rates shown in Column J and the rate of return used to  
19          calculate Column L of McManeus Exhibit 4, Page 2 would be updated  
20          based on what is approved in that case.

21          Finally, the retention factor used to calculate Column N will be  
22          updated to reflect any future changes in the license fee or public utility  
23          assessment fee rates as needed.

1           The Company proposes to file the rider amounts, along with the  
2           spread to the classes and derivation of the rate for each subsequent year,  
3           with the Commission annually in this docket by April 30, for rider rates  
4           effective July 1.

5           The Year 1 EDIT revenue requirement, shown in McManeus  
6           Exhibit 4, was provided to Witness Pirro who explains the derivation of  
7           the rider rate in his testimony. Witness Hager explains how the amounts  
8           were allocated to the customer classes in her testimony.

9           **VII. PETITION FOR ACCOUNTING ORDER TO DEFER GRID**  
10           **IMPROVEMENT PLAN COSTS**

11       **Q.    WHAT IS THE COMPANY'S PROPOSAL REGARDING**  
12       **RECOVERY OF COSTS RELATED TO GRID IMPROVEMENT**  
13       **PLAN INVESTMENTS?**

14       A.    The proposed new rates requested in this proceeding include recovery of  
15       Grid Improvement Plan expenditures that are included in the Test Period  
16       and any supplemental updates that may be made for post Test Period plant  
17       additions. In addition, the Company requests permission to defer costs  
18       related to its Grid Improvement Plan in a regulatory asset, for cost  
19       recovery consideration in future general rate cases. The Company requests  
20       authorization to begin deferring incremental costs not included in this case  
21       beginning January 1, 2020. The Grid Improvement Plan is a three-year  
22       plan spanning calendar years 2020 through 2022.

1 **Q. WHAT SPECIFIC COSTS ARE REQUESTED TO BE DEFERRED?**

2 A. Company Witness Oliver extensively discusses the Company's Grid  
3 Improvement Plan in his direct testimony. In Oliver Exhibit 4, a listing of  
4 specific Grid Improvement Plan programs is provided, including thirteen  
5 Distribution programs, three Transmission programs, and five Enterprise  
6 programs. The Company is requesting deferral of North Carolina retail's  
7 share of the following types of costs for these identified programs:  
8 depreciation of capital investments, return on capital investments (net of  
9 accumulated depreciation) at the Company's weighted average cost of  
10 capital, O&M expense related to the installation of equipment, property  
11 tax related to the capital investments, and a return of the balance of costs  
12 deferred at the Company's weighted average cost of capital.

13           Witness Oliver's direct testimony provides estimated amounts to  
14 be spent as part of the Grid Improvement Plan in the state of North  
15 Carolina. However, for purposes of determining amounts to be deferred  
16 for future cost recovery from North Carolina retail customers,  
17 consideration is given to the nature of the expenditures, *i.e.*, whether the  
18 expenditures are related to improvement of the distribution system, the  
19 transmission system, or communications systems. Distribution  
20 expenditures made to improve North Carolina distribution infrastructure  
21 would be fully assigned to North Carolina retail customers. However,  
22 expenditures made to improve transmission infrastructure benefits all

1 retail and wholesale customers, thus an appropriate share would be  
2 allocated to North Carolina retail customers. Expenditures made to  
3 improve communications systems would similarly be allocated among  
4 both retail and wholesale customers.

5 **Q. WHAT IS THE BASIS FOR THE COMPANY'S REQUEST FOR**  
6 **DEFERRAL?**

7 A. The request meets the Commission's traditional test for deferral. As  
8 described by Witness Oliver, the expenditures to be made under the Grid  
9 Improvement Plan are not simple, regularly occurring, inconsequential  
10 investments, but rather, are major non-routine investments, that produce  
11 substantial customer benefits. Further, absent deferral the Company will  
12 experience a significant adverse earnings impact. The earnings  
13 degradation is expected to grow to over 100 basis points by 2022, the third  
14 year of the plan. These effects are material to the Company's financial  
15 standing and could adversely impact the Company's financial strength and  
16 flexibility, impairing reliable access to capital on reasonable terms. As  
17 noted by Witness Newlin, the Company's capital requirements for the next  
18 three years are projected to be approximately \$9.1 billion.

19 **Q. ARE THERE ADDITIONAL REASONS WHY THE COMMISSION**  
20 **SHOULD AUTHORIZE DEFERRAL OF THESE COSTS?**

21 A. Yes. The Commission has consistently demonstrated that deferral is not a  
22 rigid concept, but can be flexibly applied to ensure that its fundamental

1 mandate of ensuring that rates are just and reasonable, set in a manner that  
2 balances the interests of the Company and its customers.

3 In the 2017 Rate Case, the Commission noted that regulatory lag is  
4 always present in an integrated, investor-owned utility market such as  
5 North Carolina. As the Commission is aware, this is particularly so in a  
6 jurisdiction (like North Carolina) that uses a historical test year to set  
7 rates. The Commission specifically noted that while grid improvement  
8 costs identified in the totality of that case were substantial, on an  
9 individual project basis the projects were by and large of insufficient  
10 length to qualify for CWIP or AFUDC prior to placement into service.  
11 The Commission noted that as a result, the Company risked erosion of its  
12 ability to earn its authorized return due to regulatory lag. However, as the  
13 magnitude of that erosion had not been quantified, the Commission  
14 declined to authorize a deferral in that case. Instead, the Commission  
15 noted that it would be willing to entertain a future deferral request outside  
16 the test year “were the Company to demonstrate that the costs can be  
17 properly classified as ... grid modernization [and not customary spend].”  
18 (E-7, Sub 1146 Rate Order, p. 148.) The Commission indicated that a list  
19 of projects arising from a collaborative stakeholder process would aid it in  
20 the examination of a deferral request. Witness Oliver’s testimony shows  
21 that the projects for which the Company seeks deferral do indeed arise  
22 from a robust stakeholder process. And, the Commission noted further, it  
23 could authorize deferral of “demonstrated” grid modernization costs



1 incurred prior to the test year with “reliance on leniency in imposing the  
2 ‘extraordinary expenditure’ test.” (E-7, Sub 1146 Order, p. 149.)

3 Another example of the flexibility with which the Commission  
4 may approach deferral requests is the recently decided Northbrook Hydro  
5 matter (Docket No. E-7, Sub 1181). There, the Commission looked to the  
6 benefits accruing to the Company’s customers due to the sale of some of  
7 the Company’s hydroelectric generation assets; found that those benefits  
8 were substantial; and allowed the Company to defer the loss experienced  
9 on the sale considering the relatively small cost that customers would have  
10 to bear in the future due to the deferral. As set out in the testimony of  
11 Company Witness Oliver, the benefit to customers of the Company’s grid  
12 modernization program are significant.

### 13 **VIII. CONCLUSION**

14 **Q. IN YOUR VIEW, ARE THE OPERATING EXPENSES AND RATE**  
15 **BASE CALCULATED BY DE CAROLINAS IN THIS**  
16 **PROCEEDING IN ACCORDANCE WITH THE PROVISIONS OF**  
17 **N.C. GEN. STAT. § 62-133 AND NCUC RULE R1-17?**

18 **A.** Yes. They are. The Company generally experienced a level of ordinary  
19 business expenses and rate base that was reasonable and necessary to  
20 provide safe and reliable electric service to its customers for the twelve-  
21 month period ended December 31, 2018. To meet the requirements of  
22 N.C. Gen. Stat. § 62-133 and this Commission’s Rule R1-17, the actual  
23 operating expenses and rate base levels for the Test Period were adjusted

1 for known and measurable changes as described in Section IV of my  
2 testimony and in the testimonies of Witnesses McGee and Pirro.

3 **Q. DOES THIS CONCLUDE YOUR PRE-FILED DIRECT**  
4 **TESTIMONY?**

5 **A.** Yes.

**DUKE ENERGY CAROLINAS, LLC**  
**OPERATING INCOME FROM ELECTRIC OPERATIONS**  
**Docket No. E-7, Sub 1214 FOR THE TEST PERIOD ENDED DECEMBER 31, 2018**  
**(Thousands of Dollars)**

Line No.	Description	Total Company Per Books (a) (Col. 1)	North Carolina Retail Operations				
			Per Books (Col. 2)	Accounting Adjustments (c) (Col. 3)	Before Proposed Increase (Col. 4)	Revenue and Expenses from Proposed Increase (e) (Col. 5)	After Proposed Increase (Col. 6)
1	Electric operating revenue	\$ 7,273,365	\$ 4,904,084	\$ (142,660)	\$ 4,761,424	\$ 445,331	\$ 5,206,755
	Electric operating expenses:						
	Operation and maintenance:						
2	Fuel used in electric generation	1,504,692	989,374	168,854	1,158,228	-	1,158,228
3	Purchased power	317,798	194,348	(170,936)	23,412	-	23,412
4	Other operation and maintenance expense	2,029,601	1,375,939	(205,547)	1,170,392	1,691	1,172,083
5	Depreciation and amortization	1,193,762	838,805	358,330	1,197,135	-	1,197,135
6	General taxes	291,829	194,681	12,832	207,513	-	207,513
7	Interest on customer deposits	8,169 (b)	7,130	-	7,130	-	7,130
8	Net income taxes	340,714	224,997	(59,918)	165,080	103,355	268,435
9	Amortization of investment tax credit	(5,259)	(3,526)	690	(2,836)	-	(2,836)
10	Total electric operating expenses	5,681,305	3,821,748	104,306	3,926,054	105,046	4,031,100
11	Operating income	\$ 1,592,059	\$ 1,082,336	\$ (246,966)	\$ 835,370	\$ 340,285	\$ 1,175,655
12	Original cost rate base (e)	\$ 21,361,527	\$ 14,556,650	\$ 908,092 (d)	\$ 15,464,742	\$ 47,878 (f)	\$ 15,512,620
13	Rate of return on North Carolina retail rate base		7.44%		5.40%		7.58%

- Notes: (a) From Form E-1 Item 45A  
(b) Reclassifies interest on customer deposits to electric operating expense.  
(c) From Page 3, Line 35.  
(d) From Page 4, Line 9.  
(e) From Page 2.  
(f) Reflects an increase in operating funds per lead-lag study for the adjusted total requirements in this rate case excluding the portion already adjusted in Col. 3, Line 12.

DUKE ENERGY CAROLINAS, LLC  
 CALCULATION OF ADDITIONAL REVENUE REQUIREMENT  
 Docket No. E-7, Sub 1214 FOR THE TEST PERIOD ENDED DECEMBER 31, 2018  
 (Thousands of Dollars)

Line No.	Description	Dec. 31, 2018 Amount (Col. 1)	Pro forma Ratio (Col. 2)	North Carolina Retail Operations					
				Before Proposed Increase			After Proposed Increase		
				Retail Rate Base (Col. 3)	Embedded Cost/ Return % (Col. 4)	Operating Income (Col. 5)	Retail Rate Base (Col. 6)	Embedded Cost/ Return % (Col. 7)	Operating Income (Col. 8)
1	Long-term debt	\$ 10,993,064	47.00%	\$ 7,268,429	4.51%	\$ 327,806	\$ 7,290,932	4.51%	\$ 328,821
2	Members' equity (a)	<u>11,682,367</u>	<u>53.00%</u>	<u>8,196,313</u>	6.19%	<u>507,564</u>	<u>8,221,689</u>	10.30%	<u>846,834</u>
3	Total	<u>\$ 22,675,431</u>	<u>100.00%</u>	<u>\$ 15,464,742</u> (b)		<u>\$ 835,370</u> (c)	<u>\$ 15,512,620</u> (b)		<u>\$ 1,175,655</u>
4	Operating income before increase (Line 3, Column 5)								<u>835,370</u>
5	Additional operating income required (Line 3 minus Line 4)								<u>340,285</u>
6	Calculate income tax on incremental interest expense due to increase in cash working capital in proposed revenue								<u>(237)</u>
7	Regulatory fee (.12967%), uncollectibles rate (.2501%) and income taxes (23.3503%)								<u>105,283</u>
8	Additional revenue requirement								<u>\$ 445,331</u>

Notes: (a) The equivalent of common equity for a limited liability company.

(b) From Page 1, Line 12, Column 4 and Column 6.

(c) From Page 1, Line 11, Column 4.

DUKE ENERGY CAROLINAS, LLC  
 DETAIL OF ACCOUNTING ADJUSTMENTS-NORTH CAROLINA RETAIL  
 Docket No. E-7, Sub 1214 FOR THE TEST PERIOD ENDED DECEMBER 31, 2018  
 (Thousands of Dollars)

Line No.	Description	Electric Operating Revenue (Col. 1)	Fuel Used in Electric Generation (Col. 2)	Purchased Power (Col. 3)	Other O&M Expense (Col. 4)	Depreciation and Amortization (Col. 5)	General Taxes (Col. 6)	Income Taxes 23.6619% (Col. 7)	Amortization of ITC (Col. 8)	Operating Income
1	Annualize retail revenues for current rates	\$ (110,407)	\$ -	\$ -	\$ (826)	\$ -	\$ -	\$ (25,588)	\$ -	(83,994)
2	Update fuel costs to proposed rate	-	209,105	(169,854)	(21,892)	(3,277)	-	(3,288)	-	(10,794)
3	Normalize for weather	(109,566)	(26,163)	-	(416)	-	-	(19,378)	-	(63,609)
4	* Annualize revenues for customer growth	9,942	2,775	-	39	-	-	1,664	-	5,464
5	Eliminate unbilled revenues	26,204	-	-	-	-	-	6,119	-	20,085
6	Adjust for costs recovered through non-fuel riders	50,669	(16,862)	(1,082)	(117,348)	(3,071)	(10)	60,905	-	128,138
7	Adjust O&M for executive compensation	-	-	-	(3,301)	-	-	771	-	2,530
8	Annualize depreciation on year end plant balances	-	-	-	-	59,172	-	(13,817)	690	(46,045)
9	Annualize property taxes on year end plant balances	-	-	-	-	-	7,470	(1,744)	-	(5,725)
10	* Adjust for post test year additions to plant in service	-	-	-	-	50,629	6,771	(13,403)	-	(43,998)
11	* Amortize deferred environmental costs	-	-	-	-	95,913	-	(22,396)	-	(73,517)
12	Annualize O&M non-labor expenses	-	-	-	2,631	-	-	(614)	-	(2,017)
13	* Normalize O&M labor expenses	-	-	-	(23,765)	-	(1,162)	5,820	-	19,106
14	Update benefits costs	-	-	-	(1,433)	-	-	335	-	1,099
15	* Levelize nuclear refueling outage costs	-	-	-	(2,138)	-	-	499	-	1,639
16	* Amortize rate case costs	-	-	-	801	-	-	(187)	-	(614)
17	Adjust aviation expenses	-	-	-	(1,986)	-	(27)	470	-	1,543
18	Adjust for approved regulatory assets and liabilities	-	-	-	1,408	62,706	56	(14,984)	-	(49,187)
19	* Adjust for Merger Related Costs	-	-	-	(5,530)	(21)	(73)	1,313	-	4,311
20	* Amortize Severance Costs	-	-	-	(46,208)	-	-	10,790	-	35,418
21	Adjust NC income taxes for rate change	-	-	-	-	-	-	(2,707)	-	2,707
22	* Synchronize interest expense with end of period rate base	-	-	-	-	-	-	(2,580)	-	2,580

DUKE ENERGY CAROLINAS, LLC  
 DETAIL OF ACCOUNTING ADJUSTMENTS-NORTH CAROLINA RETAIL  
 Docket No. E-7, Sub 1214 FOR THE TEST PERIOD ENDED DECEMBER 31, 2018  
 (Thousands of Dollars)

Line No.	Description	Electric Operating Revenue (Col. 1)	Fuel Used in Electric Generation (Col. 2)	Purchased Power (Col. 3)	Other O&M Expense (Col. 4)	Depreciation and Amortization (Col. 5)	General Taxes (Col. 6)	Income Taxes 23.6619% (Col. 7)	Amortization of ITC (Col. 8)	Operating Income
23	* Adjust cash working capital for present revenue annualized and proposed revenue	-	-	-	-	-	-	103	-	(103)
24	Adjust coal inventory	-	-	-	-	-	-	-	-	-
25	* Adjust for credit card fees	-	-	-	8,774	-	-	(2,049)	-	(6,725)
26	Adjust Depreciation for new rates	-	-	-	-	72,133	-	(16,843)	-	(55,290)
27	Adjust vegetation management expenses	-	-	-	7,739	-	-	(1,807)	-	(5,932)
28	Adjust reserve for end of life nuclear costs	-	-	-	-	(1,808)	-	422	-	1,386
29	Update deferred balance and amortize storm costs	-	-	-	-	24,179	-	(5,646)	-	(18,533)
30	Adjust Other Revenue	(9,502)	-	-	(36)	-	-	(2,210)	-	(7,256)
31	Adjust for change in NCUC regulatory fee-DEC	-	-	-	(500)	-	-	117	-	383
32	* Adjust for Hydro Stations Sale	-	-	-	(1,560)	1,773	(193)	(5)	-	(16)
33										
34										
35	Total adjustments	<u>\$ (142,660)</u>	<u>\$ 168,854</u>	<u>\$ (170,936)</u>	<u>\$ (205,547)</u>	<u>\$ 358,330</u>	<u>\$ 12,832</u>	<u>\$ (59,918)</u>	<u>\$ 690</u>	<u>\$ (246,966)</u>

Notes: \* Identification required by NCUC Rule R1-17(b)

DUKE ENERGY CAROLINAS, LLC  
 DETAIL OF ACCOUNTING ADJUSTMENTS-NORTH CAROLINA RETAIL  
 Docket No. E-7, Sub 1214 FOR THE TEST PERIOD ENDED DECEMBER 31, 2018  
 (Thousands of Dollars)

Line No.	Description	EPIS	Accum Deprec	Materials & Supplies	Working Capital	ADIT	Operating Reserves	CWIP	Rate Base	Oper Inc Rev Req Impact	R/B Rev Req Impact	Total Rev Req Impact
1	Annualize retail revenues for current rates	-	-	-	-	-	-	-	-	109,581	-	109,581
2	Update fuel costs to proposed rate	-	-	-	-	-	-	-	-	14,082	-	14,082
3	Normalize for weather	-	-	-	-	-	-	-	-	82,987	-	82,987
4	* Annualize revenues for customer growth	-	-	-	-	-	-	-	-	(7,128)	-	(7,128)
5	Eliminate unbilled revenues	-	-	-	-	-	-	-	-	(26,204)	-	(26,204)
6	Adjust for costs recovered through non-fuel riders	(18,328)	4,243	(42,354)	(19,404)	12,472	-	-	(63,371)	(167,173)	(5,857)	(173,030)
7	Adjust O&M for executive compensation	-	-	-	-	-	-	-	-	(3,301)	-	(3,301)
8	Annualize depreciation on year end plant balances	-	-	-	-	-	-	-	-	60,072	-	60,072
9	Annualize property taxes on year end plant balances	-	-	-	-	-	-	-	-	7,470	-	7,470
10	* Adjust for post test year additions to plant in service	1,355,958	(619,363)	-	(4,945)	(17,144)	-	-	714,506	57,401	66,033	123,433
11	* Amortize deferred environmental costs	-	-	-	383,653	(89,584)	-	-	294,069	95,913	27,177	123,090
12	Annualize O&M non-labor expenses	-	-	-	-	-	-	-	-	2,631	-	2,631
13	* Normalize O&M labor expenses	-	-	-	-	-	-	-	-	(24,926)	-	(24,926)
14	Update benefits costs	-	-	-	-	-	-	-	-	(1,433)	-	(1,433)
15	* Levelize nuclear refueling outage costs	-	-	-	-	-	-	-	-	(2,138)	-	(2,138)
16	* Amortize rate case costs	-	-	-	3,080	(719)	-	-	2,361	801	218	1,019
17	Adjust aviation expenses	-	-	-	-	-	-	-	-	(2,013)	-	(2,013)
18	Adjust for approved regulatory assets and liabilities	-	-	-	(139,897)	32,666	-	-	(107,231)	64,171	(9,910)	54,261
19	* Adjust for Merger Related Costs	-	338	-	-	-	-	-	338	(5,624)	31	(5,592)
20	* Amortize Severance Costs	-	-	-	46,113	(10,767)	-	-	35,345	(46,208)	3,266	(42,941)
21	Adjust NC income taxes for rate change	-	-	-	-	-	-	-	-	(3,532)	-	(3,532)
22	* Synchronize interest expense with end of period rate base	-	-	-	-	-	-	-	-	(3,366)	-	(3,366)

DUKE ENERGY CAROLINAS, LLC  
 DETAIL OF ACCOUNTING ADJUSTMENTS-NORTH CAROLINA RETAIL  
 Docket No. E-7, Sub 1214 FOR THE TEST PERIOD ENDED DECEMBER 31, 2018  
 (Thousands of Dollars)

Line No.	Description	EPIS	Accum Deprec	Materials & Supplies	Working Capital	ADIT	Operating Reserves	CWIP	Rate Base	Oper Inc Rev Req Impact	R/B Rev Req Impact	Total Rev Req Impact
23	* Adjust cash working capital for present revenue annualized and proposed revenue	-	-	-	(20,794)	-	-	-	(20,794)	134	(1,922)	(1,787)
24	Adjust coal inventory	-	-	3,848	-	-	-	-	3,848	-	356	356
25	* Adjust for credit card fees	-	-	-	-	-	-	-	-	8,774	-	8,774
26	Adjust Depreciation for new rates	-	(72,913)	-	-	-	-	-	(72,913)	72,133	(6,738)	65,395
27	Adjust vegetation management expenses	-	-	-	-	-	-	-	-	7,739	-	7,739
28	Adjust reserve for end of life nuclear costs	-	-	-	-	-	-	-	-	(1,808)	-	(1,808)
29	Update deferred balance and amortize storm costs	-	-	-	169,251	(39,520)	-	-	129,730	24,179	11,989	36,168
30	Adjust Other Revenue	-	-	-	-	-	-	-	-	9,466	-	9,466
31	Adjust for change in NCUC regulatory fee-DEC	-	-	-	-	-	-	-	-	(500)	-	(500)
32	* Adjust for Hydro Stations Sale	(36,522)	14,093	(146)	19,280	(4,502)	-	-	(7,797)	20	(721)	(700)
33												
34												
35	Total adjustments	<u>\$ 1,301,107</u>	<u>\$ (673,602)</u>	<u>\$ (38,652)</u>	<u>\$ 436,337</u>	<u>\$ (117,099)</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 908,092</u>	<u>\$ 322,201</u>	<u>\$ 83,923</u>	<u>\$ 406,124</u>

Notes: \* Identification required by NCUC Rule R1-17(b)



DUKE ENERGY CAROLINAS, LLC  
ORIGINAL COST RATE BASE-ELECTRIC OPERATIONS  
Docket No. E-7, Sub 1214 DECEMBER 31, 2018  
(Thousands of Dollars)

Line No.	Description	Page Reference	Total Company Per Books (Col. 1)	North Carolina Retail Operations		
				Per Books (Col. 2)	Accounting Adjustments (Col. 3)	As Adjusted (Col. 4)
1	Electric plant in service	4a	\$ 41,057,320	\$ 27,969,103	\$ 1,301,107	\$ 29,270,210
2	Less: Accumulated depreciation and amortization	4b	<u>(15,830,487)</u>	<u>(10,810,668)</u>	<u>(673,602)</u>	<u>(11,484,270)</u>
3	Net electric plant		25,226,833	17,158,435	627,506	17,785,940
4	Add: Materials and supplies	4c	994,443	678,077	(38,652)	639,426
5	Working capital investment	4d	(406,979)	(253,955)	436,337	182,381
6	Less: Accumulated deferred taxes		(3,824,449)	(2,601,854)	(117,099)	(2,718,952)
7	Operating reserves		(628,321)	(424,053)	-	(424,053)
8	Construction work in progress		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
9	Total		<u>\$ 21,361,527</u>	<u>\$ 14,556,650</u>	<u>\$ 908,092</u>	<u>\$ 15,464,742</u>

**DUKE ENERGY CAROLINAS, LLC**  
**ELECTRIC PLANT IN SERVICE AT ORIGINAL COST**  
Docket No. E-7, Sub 1214 DECEMBER 31, 2018  
(Thousands of Dollars)

Line No.	Description	Total Company Per Books (Col. 1)	North Carolina Retail Operations		
			Per Books (Col. 2)	Accounting Adjustments (Col. 3) (b)	As Adjusted (Col. 4)
1	Production Plant	\$ 22,181,205	\$ 14,978,527	\$ 440,620	\$ 15,419,147
2	Transmission Plant	4,052,747	2,179,775	160,056	2,339,831
3	Distribution Plant	12,085,804	8,938,158	550,071	9,488,229
4	General Plant	1,212,985	830,763	90,249	921,011
5	Intangible Plant	<u>986,751</u>	<u>687,541</u>	<u>60,112</u>	<u>747,653</u>
6	Subtotal	40,519,492 (a)	27,614,764	1,301,107	28,915,872
7	Nuclear Fuel (Net)	<u>537,828</u>	<u>354,338</u>	<u>-</u>	<u>354,338</u>
8	Total electric plant in service	<u>\$ 41,057,320</u>	<u>\$ 27,969,103</u>	<u>\$ 1,301,107</u>	<u>\$ 29,270,210</u>

Notes: (a) Excludes asset retirement obligations, electric plant held for future use, and electric plant acquisition adjustments totaling \$642,372 thousand.

(b) Reflects certain plant in service additions/retirements through January 2020, and a reduction for solar electric plant recovered through the REPS rider.

**DUKE ENERGY CAROLINAS, LLC**  
**ACCUMULATED DEPRECIATION AND AMORTIZATION - ELECTRIC PLANT IN SERVICE**  
Docket No. E-7, Sub 1214 DECEMBER 31, 2018  
(Thousands of Dollars)

No.	Description	Total Company Per Books (Col. 1)	North Carolina Retail Operations		
			Per Books (Col. 2)	Accounting Adjustments (b) (Col. 3)	As Adjusted (Col. 4)
1	Production Reserve	\$ (8,604,490)	\$ (5,795,067)	\$ (457,776)	\$ (6,252,844)
2	Transmission Reserve	(1,385,391)	(745,942)	(7,009)	(752,951)
3	Distribution Reserve	(4,816,028)	(3,561,642)	(111,855)	(3,673,497)
4	General Reserve	(414,681)	(285,334)	(45,259)	(330,594)
5	Intangible Reserve	<u>(609,897)</u>	<u>(422,682)</u>	<u>(51,702)</u>	<u>(474,384)</u>
6	Total	<u>\$ (15,830,487) (a)</u>	<u>\$ (10,810,668)</u>	<u>\$ (673,602)</u>	<u>\$ (11,484,270)</u>

7 The annual composite rates based on the new depreciation study for computing depreciation (straight-line method) are shown below:

8	Steam production plant	4.40%
9	Nuclear production plant	3.60%
10	Hydro production plant	2.00%
11	Other production plant	3.21%
12	Transmission plant	2.23%
13	Distribution plant	2.28%
14	General plant	Various
15	Intangible plant	20.00%

Notes: (a) Excludes accumulated amortization of electric plant acquisition adjustment and accumulated depreciation related to asset retirement obligations totaling (\$107,345) thousand.

(b) Consists of adjustments to depreciation for year-end plant and certain plant additions/retirements through January 2020.

**DUKE ENERGY CAROLINAS, LLC  
MATERIALS AND SUPPLIES  
Docket No. E-7, Sub 1214 DECEMBER 31, 2018  
(Thousands of Dollars)**

Line No.	Description	Total Company Per Books (Col. 1)	North Carolina Retail Operations		
			Per Books (Col. 2)	Accounting Adjustments (Col. 3)	As Adjusted (Col. 4)
	Fuel Stock:				
1	Coal	\$ 175,291	\$ 115,487	\$ 3,848 (a)	\$ 119,336
2	Gas	<u>45,470</u>	<u>29,957</u>	<u>-</u>	<u>29,957</u>
3	Total fuel stock	220,761	145,444	3,848	149,293
4	Other electric materials and supplies and stores clearing	<u>773,682</u>	<u>532,633</u>	<u>(42,500)</u>	<u>490,133</u>
5	Total Materials and Supplies	<u>\$ 994,443</u>	<u>\$ 678,077</u>	<u>\$ (38,652)</u>	<u>\$ 639,426</u>

Notes: (a) Adjusts coal inventory to reflect the targeted inventory level of 35 days at full load.

**DUKE ENERGY CAROLINAS, LLC**  
**WORKING CAPITAL INVESTMENT**  
Docket No. E-7, Sub 1214 DECEMBER 31, 2018  
(Thousands of Dollars)

Line No.	Description	Total Company Per Books (Col. 1)	North Carolina Retail Operations		Impact of Rev Incr (Col. 5)	With Rev Incr (Col. 6)	
			Per Books (Col. 2)	Accounting Adjustments (Col. 3)			As Adjusted (Col. 4)
1	Required bank balance	\$ 300	\$ 204	\$ -	\$ 204	\$ 204	
2	Investor advanced funds: Operating funds per lead-lag study	260,829	177,740 (a)	(20,794) (b)	156,946	47,878 (C)	204,825
3	Unamortized Debt	114,911	78,306	-	78,306	-	78,306
4	Pension Funding	580,803	394,363	-	394,363	-	394,363
5	Injuries and Damages	705,912	477,557	-	477,557	-	477,557
6	Regulatory Asset and Liability - Tax	(3,338,909)	(2,208,434)	-	(2,208,434)	-	(2,208,434)
7	Other	1,395,759	922,916	457,131	1,380,047	-	1,380,047
8	Total investor advanced funds	(280,695)	(157,552)	436,337	278,785	47,878	326,663
9	Less: customer deposits	(126,585)	(96,608)	-	(96,608)	-	(96,608)
10	Total working capital investment	\$ (406,979)	\$ (253,955)	\$ 436,337	\$ 182,381	\$ 47,878	\$ 230,260

Notes: (a) From Speros Exhibit 2, Line 19.

(b) Reflects a decrease in 'operating funds per lead-lag study' for the adjusted total requirements in this rate case.

(c) Reflects an increase in 'operating funds per lead-lag study' for the impact of the revenue increase.

Duke Energy Carolinas, LLC  
Docket No. E-7, Sub 1214  
Summary of Proposed Revenue Adjustments  
For the test period ended December 31, 2018

McManeus  
Exhibit 2

<u>Line</u> <u>No.</u>	<u>Description</u>	<u>NC Retail</u>
1		
2	Revenue Requirement from Exhibit 1	\$ 445,331
3	EDIT Rider	(154,573)
4	Total Requested Increase	<u>\$ 290,757</u>

DUKE ENERGY CAROLINAS, LLC  
Docket No. E-7, Sub 1214

McManeus Exhibit No. 3  
Page 1 of 1

### Total cost data - DEC utility-owned solar project

	<u>Woodleaf</u>
<b>Project:</b>	
Project size:	6 MWac
CPCN docket No.	E-7, Sub 1101
CPCN filing date:	March 3, 2016
NCUC Order date:	June 16, 2016
<b>Original CPCN estimate:</b>	
Total capital expenditure (\$000s)	\$ 16,585
Total annual levelized revenue requirement (\$000s)	\$ 1,460
<b>Updated tax benefit monetization estimates:</b>	
Total capital expenditure (\$000s)	\$ 16,585
Total annual levelized revenue requirement (\$000s)	\$ 1,553
<b>Updated tax benefit monetization and capital expenditure estimates:</b>	
Total capital expenditure (\$000s)	\$ 15,200
Total annual levelized revenue requirement (\$000s)	\$ 1,387

### Levelized cost recovery summary

	Annual \$/MWh	Annual Levelized Cost (\$000s)
Total cost - original estimate	\$94.49	\$ 1,460
Avoided cost	\$75.00	\$ 1,159
Incremental cost	\$ 19.49	\$ 301
Total cost - updated tax benefit monetization estimates only <sup>(1)</sup>	\$100.54	\$ 1,553
Avoided cost	\$75.00	\$ 1,159
Incremental cost	\$ 25.54	\$ 394
Total cost - updated tax benefit monetization and capital expenditure estimates <sup>(2)</sup>	\$89.76	\$ 1,387
Avoided cost	\$75.00	\$ 1,159
Incremental cost	\$ 14.76	\$ 228

(1) Reflects original project cost estimates with updated assumptions regarding tax benefits per Commission's May 10, 2016 **Order Granting Certificate of Public Convenience and Necessity** ("Woodleaf Order") issued in Docket No. E-7, Sub 1101.

(2) DEC filed its **Final Cost Accounting Report** showing actual project cost incurred, as required by the Woodleaf Order, on June 20, 2019 in Docket No. E-7, Sub 1101. The total cost stated above reflects the actual cost incurred included in the **Final Cost Accounting Report**; current estimated remaining project cost; updated assumptions regarding tax benefits as required by the Woodleaf Order; federal income tax rate changes since the original revenue requirement calculation; and cost of capital components authorized by the Commission in its June 22, 2018 **Order Accepting Stipulation, Deciding Contested Issues, and Requiring Revenue Reduction** in Docket No. E-7, Sub 1146.

**Duke Energy Carolinas, LLC**  
**Docket No. E-7, Sub 1214 FOR THE TEST PERIOD ENDED December 31, 2018**  
**NORTH CAROLINA RETAIL**  
**McManeus Exhibit 4**

**Excess Deferred Income Tax Rider Calculation**  
**(Dollars in thousands)**

	Federal EDIT - Protected NC Retail	Federal EDIT - Unprotected, PP&E related NC Retail	Federal EDIT - Unprotected, non PP&E related NC Retail	NC EDIT NC Retail	Deferred Revenue NC Retail	Total NC Retail
	(A)	(B)	(C)	(D)	(E)	(F)
1 Regulatory Federal EDIT liability including gross up on the books as of 12/31/2018, based on 2017 tax returns	[1] \$ (1,224,087)	\$ (783,045)	\$ (166,964)	\$ (34,339)		(2,208,434)
2 Adjustment to implement ASU 2018-02	[1]		\$ (1,344)	\$ -		(1,344)
3 Estimated transition of Protected to Unprotected Regulatory liability 1/1/2018-12/31/2018	[1] \$ 31,021		\$ (31,021)	\$ -		-
4 Regulatory Federal EDIT liability including gross up as of 12/31/2018, adjusted for the implementation of ASU 2018-02	[1] \$ (1,193,066)	\$ (783,045)	\$ (199,329)	\$ (34,339)	\$ -	(2,209,778)
5 Estimated transition of Protected to Unprotected Regulatory liability 1/1/2019-7/31/2020	[1] \$ 49,116		\$ (49,116)	\$ -		-
6 Deferred revenues related to 2017 Federal Tax Rate Change as of 12/31/2018	[1]				\$ (112,661)	(112,661)
7 Other projected updates through 1/31/2020	[2]			\$ (2)	\$ (8,392)	(8,394)
8 Regulatory liability for federal tax change including gross up for NC Retail, for Year 1 rider calculation (Sum of L4 to L7)	\$ (1,143,950)	\$ (783,045)	\$ (248,445)	\$ (34,341)	\$ (121,053)	(2,330,834)
9 Annual Amortization percentage	2.53%	5.00%	20.00%	20.00%	20.00%	6.48%
10 Liability for Annual amortization amount (Col A: L1 , Col B to E: L8)	(1,224,087)	(783,045)	(248,445)	(34,341)	(121,053)	(2,410,971)
11 Annual amortization amount ( L9 x L10)	[3] (31,021)	(39,152)	(49,689)	(6,868)	(24,211)	(150,941)
12 Years of rider amortization	39.46	20	5	5	5	15

[1] Excess deferred tax liability (EDIT) on the books as of 12/31/2018 by jurisdiction, and forecast transition to new rates effective date between categories based on Tax Dept. analysis of ADIT.  
 Federal EDIT related to the federal tax changes booked to the 0254036 and 0254038 accounts is included in other Working Capital in the per books cost of service.  
 NC EDIT related to the NC state tax reduction deferred to the 0254150 account not included for recovery in NC EDIT rider approved in prior DEC NC rate case.  
 This NC EDIT is included in other Working Capital in the per books cost of service study.  
 Revenues deferred for federal tax changes with accrued returns in the 0229010 account, are currently excluded from rate base in the per books cost of service study.

[2] Projected updates to the NC tax EDIT during 2019 by Tax Dept.  
 McManeus Exhibit 4, Page 3, Line 1 return accruals on deferred revenues in the 0229010 account projected through 1/31/2020.

[3] Annual amortization for Federal EDIT-Protected from Tax Dept., estimated based on ARAM method.



**Duke Energy Carolinas, LLC**  
**Docket No. E-7, Sub 1214 FOR THE TEST PERIOD ENDED December 31, 2018**  
**NORTH CAROLINA RETAIL**  
**McManeus Exhibit 4**

Cost of Capital per McManeus Exhibit 1	Ratio	Rate	After Tax Weighted Average Cost of Capital (WACC)
Debt	47.00%	4.51%	1.62%
Equity	53.00%	10.30%	5.46%
			7.08%
Statutory Tax Rate			23.35%
Retention factor for NCUC Fee, Uncollectibles			99.62%

**Annual Rider Calculation**

Amortization - From Page 1, L11

Year	Beginning Balance, Page 1, L8	Federal EDIT - Protected	Federal EDIT - Unprotected, PP&E related	Federal EDIT - Unprotected, non PP&E related	NC EDIT	Deferred Revenue	Total Amortization (G) =(B)+(C)+(D)+[E]+[F]	Ending Balance before Return (H) = (A) - (G)	Average of Beginning and Ending Balance (I) = ((A) + (H)) / 2	EDIT Balance in Base Rates, Page 1, L1 (J)	Change in Regulatory Liability for Rider Return (K) = (I) - (J)	Return for Rider (L) = (K) x After Tax WACC	Rider Revenues (M) = (G) + (L)	Rider Revenues incl. NCUC Fee, Uncollectibles (N) = (M) / Retention Factor
Aug 1	(2,330,834)	(31,021)	(39,152)	(49,689)	(6,868)	(24,211)	(150,941)	(2,179,893)	(\$2,255,364)	(2,208,434)	(\$46,930)	(\$3,046)	(153,986)	(154,573)
Jul 2	(2,179,893)	(31,021)	(39,152)	(49,689)	(6,868)	(24,211)	(150,941)	(2,028,953)	(\$2,104,423)	(2,208,434)	\$104,011	\$7,364	(143,577)	(144,124) [1]
Jul 3	(2,028,953)	(31,021)	(39,152)	(49,689)	(6,868)	(24,211)	(150,941)	(1,878,012)	(\$1,953,482)	(2,208,434)	\$254,952	\$18,051	(132,890)	(133,397) [1]
Jul 4	(1,878,012)	(31,021)	(39,152)	(49,689)	(6,868)	(24,211)	(150,941)	(1,727,071)	(\$1,802,541)	(2,208,434)	\$405,893	\$28,737	(122,204)	(122,669) [1]
Jul 5	(1,727,071)	(31,021)	(39,152)	(49,689)	(6,868)	(24,211)	(150,941)	(1,576,130)	(\$1,651,601)	(2,208,434)	\$556,833	\$39,424	(111,517)	(111,942) [1]

[1] The rider amounts for years 2 through 5 are shown for illustrative purposes only. Actual rider amounts will be filed each year with updates discussed in my testimony by April 30th for Commission approval.

Deferred Revenue for Federal Tax Rate Change in account 0229010

NC Retail

1	Projected Changes in Deferred Revenue for Federal Tax Rate Change through Jan 2020	(\$8,392,119)
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