



Jack E. Jirak
Associate General Counsel

Mailing Address:
NCRH 20 / P.O. Box 1551
Raleigh, NC 27602

o: 919.546.3257
f: 919.546.2694

jack.jirak@duke-energy.com

May 7, 2020

VIA ELECTRONIC FILING

Ms. Kimberley A. Campbell, Chief Clerk
North Carolina Utilities Commission
4325 Mail Service Center
Raleigh, North Carolina 27699-4300

**RE: Duke Energy Carolinas, LLC's Supplemental Testimony
Docket No. E-7, Sub 1228**

Dear Ms. Campbell:

Enclosed for filing please find Duke Energy Carolinas, LLC's Supplemental Testimony, Revised Exhibits and Revised Supporting Workpapers of Kimberly D. McGee.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Jack Jirak". The signature is written in a cursive, slightly slanted style.

Jack E. Jirak

Enclosures

cc: Parties of Record

OFFICIAL COPY

May 07 2020

CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Carolinas, LLC's Supplemental Testimony in Docket No. E-7, Sub 1228, has been served by electronic mail, hand delivery or by depositing a copy in the United States mail, postage prepaid to parties of record.

This the 7th day of May, 2020.

Handwritten signature of Jack E. Jirak in black ink.

Jack E. Jirak
Associate General Counsel
Duke Energy Corporation
P.O. Box 1551/NCRH 20
Raleigh, North Carolina 27602
(919) 546-3257
Jack.jirak@duke-energy.com

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-7, SUB 1228

In the Matter of)
Application of Duke Energy Carolinas, LLC) **SUPPLEMENTAL TESTIMONY**
Pursuant to G.S. 62-133.2 and NCUC Rule) **OF KIMBERLY D. MCGEE FOR**
R8-55 Relating to Fuel and Fuel-Related) **DUKE ENERGY CAROLINAS, LLC**
Charge Adjustments for Electric Utilities)

1 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A. My name is Kimberly D. McGee. My business address is 550 South Tryon
3 Street, Charlotte, North Carolina.

4 **Q. HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS**
5 **PROCEEDING?**

6 A. Yes, on February 25, 2020, I caused to be pre-filed with the Commission
7 my direct testimony and 6 exhibits and 14 supporting workpapers.

8 **Q. YOUR SUPPLEMENTAL TESTIMONY INCLUDES THREE (3)**
9 **REVISED EXHIBITS AND FIVE (5) REVISED SUPPORTING**
10 **WORKPAPERS. WERE THESE SUPPLEMENTAL EXHIBITS AND**
11 **WORKPAPERS PREPARED BY YOU OR AT YOUR DIRECTION**
12 **AND UNDER YOUR SUPERVISION?**

13 A. Yes. These exhibits and workpapers were prepared by me and consist of
14 the following:

15 McGee Revised Exhibit 1: Summary Comparison of Fuel and Fuel-Related
16 Costs Factors.

17 McGee Revised Exhibit 2: Calculation of the Proposed Fuel and Fuel-
18 Related Cost Factors.

19 McGee Revised Exhibit 3: Calculation of the Proposed Experience
20 Modification Factor (“EMF”) rate.

21 McGee Revised Workpaper 4: Projected fuel and fuel related costs

22 McGee Revised Workpaper 7: Calculation of Allocation percentages based
23 on Projected Test Period Sales

1 McGee Revised Workpaper 7a: Calculation of Allocation percentages based on
2 Normalized Test Period Sales

3 McGee Revised Workpaper 7b: Calculation of Allocation percentages based on
4 Projected Test Period Sales and NERC 5 year average

5 McGee Revised Workpaper 9: Calculation of total projected reagent and (gain)/loss
6 on sale of by-products

7

8 **Q. WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL TESTIMONY**
9 **IN THIS PROCEEDING?**

10 A. The purpose of my testimony is to present revised rates reflecting the impacts
11 related to two updates to numbers presented in my direct exhibits. The first update
12 relates to the proposed EMF increment for the experienced under-recovery of fuel
13 and fuel related costs, pursuant to NCUC Rule R8-55(d)(3), which allows the
14 Company to incorporate the fuel and fuel-related cost recovery balance up to thirty
15 (30) days prior to the hearing. The Company elects this option and supplements
16 the direct testimony and exhibits to include the fuel and fuel-related cost recovery
17 balance as of the 15 months ended March 31, 2020. The second update revises the
18 projected net (gain)/loss on the sale of steam which is included in estimated system
19 fuel and fuel-related costs for the billing period. Based on discussions with the
20 North Carolina Public Staff, the Company discovered that certain assumptions
21 used in the calculation of estimated revenue from the sale of steam from its
22 combined heat and power generating facility were out of date. The Company is
23 increasing the estimated steam revenues included in net gain/loss on the sale of

1 by-products for the billing period as a result of updating the underlying
2 assumptions in its calculations.

3 **Q. HOW DID THE FUEL AND FUEL-RELATED COST RECOVERY**
4 **BALANCE CHANGE IN THE THREE (3) MONTHS BEING**
5 **INCORPORATED?**

6 A. The Company experienced an over-collection of \$52,248,875 during the months
7 January through March 2020. As shown on McGee Revised Exhibit 3, the
8 incorporation of the update period over-collection balance resulted in a lower
9 under-recovered balance at March 31, 2020 of \$57,087,941. Incorporating the
10 over-collections experienced during January – March 2020 will reduce the EMF
11 rates charged to customers.

12 **Q. WHAT WAS THE CHANGE IN FUEL COSTS DUE TO THE UPDATE IN**
13 **STEAM REVENUE PROJECTIONS FOR THE BILLING PERIOD?**

14 A. These revenues reduce total fuel and fuel-related costs by \$928,459.

15 **Q. WHAT IS THE TOTAL RATE IMPACT OF THESE UPDATES?**

16 A. The NC Retail Total Fuel Costs were decreased by \$ 52,731,001 from the amounts
17 filed in my direct Exhibit 2, Schedule 1, page 3. The components of the proposed
18 fuel and fuel-related cost factors by customer class, as shown on McGee Revised
19 Exhibit 1, are as follows:

	Residential	General	Industrial	Composite
Description	cents/kWh	cents/kWh	cents/kWh	cents/kWh
Total adjusted Fuel and Fuel Related Costs	1.6027	1.7583	1.6652	1.6816
EMF Increment (Decrement)	0.0364	0.0666	0.2658	0.0975
Net Fuel and Fuel Related Costs Factors	1.6391	1.8249	1.9310	1.7791

21

1 **Q. WHAT IS THE IMPACT TO CUSTOMERS' BILLS IF THE REVISED**
2 **PROPOSED FUEL AND FUEL-RELATED COSTS FACTORS ARE**
3 **APPROVED BY THE COMMISSION?**

4 A. The revised proposed fuel and fuel-related costs factors will result in a 3.01%
5 decrease on customers' bills, as compared to the previously filed decrease of
6 1.90%.

7 **Q. DOES THIS CONCLUDE YOUR PRE-FILED SUPPLEMENTAL**
8 **TESTIMONY?**

9 A. Yes, it does.

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Summary Comparison of Fuel and Fuel Related Cost Factors
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

Revised McGee Exhibit 1

Line #	Description	Reference	Residential cents/kWh	General cents/kWh	Industrial cents/kWh	Composite cents/kWh
<u>Current Fuel and Fuel Related Cost Factors (Approved Fuel Rider Docket No. E-7, Sub 1190)</u>						
1	Approved Fuel and Fuel Related Costs Factors	Input	1.8126	1.9561	1.8934	1.8901
2	EMF Increment	Input	0.1375	0.0927	0.2089	0.1346
3	EMF Interest Decrement cents/kWh	Input	0.0000	0.0000	0.0000	0.0000
4	Approved Net Fuel and Fuel Related Costs Factors	Sum	1.9501	2.0488	2.1023	2.0247
<u>Fuel and Fuel Related Cost Factors Required by Rule R8-55</u>						
5	Proposed Nuclear Capacity Factor of 94.39% and Normalized Test Period Sales	Exh 2 Sch 2 pg 2	1.6398	1.8191	1.9292	1.7762
6	NERC 5 Year Average Nuclear Capacity Factor of 91.60% and Projected Period Sales	Exh 2 Sch 3 pg 2	1.6790	1.8536	1.9530	1.8106
<u>Proposed Fuel and Fuel Related Cost Factors using Proposed Nuclear Capacity Factor of 94.39%</u>						
7	Fuel and Fuel Related Costs excluding Purchased Capacity cents/kWh	Exh 2 Sch 1 pg 2	1.5674	1.7308	1.6428	1.6522
8	REPS Compliance and QF Purchased Power - Capacity cents/kWh	Exh 2 Sch 1 pg 2	0.0353	0.0275	0.0224	0.0294
9	Total adjusted Fuel and Fuel Related Costs cents/kWh	Sum	1.6027	1.7583	1.6652	1.6816
10	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.0364	0.0666	0.2658	0.0975
11	EMF Interest (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.0000	0.0000	0.0000	0.0000
12	Net Fuel and Fuel Related Costs Factors cents/kWh	Sum	1.6391	1.8249	1.9310	1.7791

Note: Fuel factors exclude regulatory fee

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Fuel and Fuel Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 94.39%
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

McGee Exhibit 2
Schedule 1
Page 1 of 3

Line #	Unit	Reference	Generation (MWh)	Unit Cost (cents/kWh)	Fuel Cost (\$)
			D	E	D * E = F
1	Total Nuclear	Workpaper 1	59,363,957	0.6041	358,597,316
2	Coal	Workpaper 3 & 4	14,450,043	2.7303	394,529,148
3	Gas CT and CC	Workpaper 3 & 4	25,505,409	2.2867	583,236,234
4	Reagents and Byproducts	Workpaper 9			21,603,715
5	Total Fossil	Sum	39,955,452		999,369,097
6	Hydro	Workpaper 3	4,305,885		
7	Net Pumped Storage	Workpaper 3	(3,219,894)		
8	Total Hydro	Sum	1,085,991		-
9	Solar Distributed Generation	Workpaper 3	385,094		-
10	Total Generation	Line 1 + Line 5 + Line 8 + Line 9	100,790,494		1,357,966,413
11	Less Lee CC Joint Owners	Workpaper 3 & 4	(876,000)		(16,315,588)
12	Less Catawba Joint Owners	Workpaper 3 & 4	(14,848,200)		(89,710,135)
13	Fuel expense recovered through reimbursement	Workpaper 4			(20,370,677)
14	Net Generation	Sum Lines 10-13	85,066,294		1,231,570,013
15	Purchased Power	Workpaper 3 & 4	8,286,802	3.1208	258,610,852
16	JDA Savings Shared	Workpaper 5			14,281,717
17	Total Purchased Power		8,286,802		272,892,569
18	Total Generation and Purchased Power	Line 14 + Line 17	93,353,096	1.6116	1,504,462,582
19	Fuel expense recovered through intersystem sales	Workpaper 3 & 4	(1,024,819)	2.0734	(21,248,787)
20	Line losses and Company use	Line 22-Line 18-Line 19	(3,945,038)		-
21	System Fuel Expense for Fuel Factor	Lines 18 + 19 + 20			1,483,213,795
22	Projected System MWh Sales for Fuel Factor	Workpaper 7	88,383,239		88,383,239
23	Fuel and Fuel Related Costs cents/kWh	Line 21 / Line 22 / 10			1.6782

Note: Rounding differences may occur

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Fuel and Fuel Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 94.39%
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

Line #	Description	Reference	Residential	GS/Lighting	Industrial	Total
1	NC Projected Billing Period MWh Sales	Workpaper 7	22,067,951	23,951,115	12,441,023	58,460,089
Calculation of Renewable and Cogeneration Purchased Power Capacity Rate by Class						
						<u>Amount</u>
2	Purchased Power for REPS Compliance - Capacity	Workpaper 4				\$ 13,122,631
3	QF Purchased Power - Capacity	Workpaper 4				<u>12,285,396</u>
4	Total of Renewable and QF Purchased Power Capacity	Line 2 + Line 3				<u>\$ 25,408,027</u>
5	NC Portion - Jurisdictional % based on Production Plant Allocator	Input				<u>67.55%</u>
6	NC Renewable and QF Purchased Power - Capacity	Line 4 * Line 5				<u>\$ 17,162,430</u>
7	Production Plant Allocation Factors	Input	45.44%	38.35%	16.21%	100.00%
8	Renewable and QF Purchased Power - Capacity allocated on Production Plant %	Line 6 * Line 7	\$ 7,799,064	\$ 6,581,827	\$ 2,781,540	<u>\$ 17,162,430</u>
9	Renewable and QF Purchased Power - Capacity cents/kWh based on Projected Billing Period Sales	Line 8 / Line 1 / 10	0.0353	0.0275	0.0224	0.0294
Summary of Total Rate by Class						
10	Fuel and Fuel Related Costs excluding Purchased Power for REPS Compliance and QF Purchased Capacity cents/kWh	Line 15 - Line 11 - Line 13 - Line 14	1.5674	1.7308	1.6428	1.6522
11	REPS Compliance and QF Purchased Power - Capacity cents/kWh	Line 9	0.0353	0.0275	0.0224	0.0294
12	Total adjusted Fuel and Fuel Related Costs cents/kWh	Line 10 + Line 11	<u>1.6027</u>	<u>1.7583</u>	<u>1.6652</u>	<u>1.6816</u>
13	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.0364	0.0666	0.2658	0.0975
14	EMF Interest (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	-	-	-	-
15	Net Fuel and Fuel Related Costs Factors cents/kWh	Exh 2 Sch 1 Page 3	<u>1.6391</u>	<u>1.8249</u>	<u>1.9310</u>	<u>1.7791</u>

Note: Rounding differences may occur

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Uniform Percentage Average Bill Adjustment by Customer Class
Proposed Nuclear Capacity Factor of 94.39%
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

Line #	Rate Class	Projected Billing Period MWh Sales	Annual Revenue at Current rates	Allocate Fuel Costs Increase/(Decrease) to Customer Class	Increase/(Decrease) as % of Annual Revenue at Current Rates	Total Fuel Rate Increase/(Decrease)	Current Total Fuel Rate (including Capacity and EMF) E-7, Sub 1190	Proposed Total Fuel Rate (including Capacity and EMF)
		A	B	C	D	E	F	G
		Workpaper 7	Workpaper 8	Line 25 as a % of Column B	C / B	If D=0 then 0 if not then (C*100)/(A*1000)	McGee Exhibit 1	E + F = G
1	Residential	22,067,951	\$ 2,282,179,536	\$ (68,632,544)	-3.01%	(0.3110)	1.9501	1.6391
2	General Service/Lighting	23,951,115	1,783,527,535	(53,636,460)	-3.01%	(0.2239)	2.0488	1.8249
3	Industrial	12,441,023	708,569,199	(21,308,975)	-3.01%	(0.1713)	2.1023	1.9310
4	NC Retail	58,460,089	\$ 4,774,276,270	\$ (143,577,979)	-3.01%			

Total Proposed Composite Fuel Rate:

5	Total Fuel Costs for Allocation	Workpaper 7	\$ 1,488,487,786					
6	Total of Renewable and QF Purchased Power Capacity	Exhibit 2 Sch 1, Page 2	25,408,027					
7	System Other Fuel Costs	Line 5 - Line 6	\$ 1,463,079,759					
8	Adjusted Projected System MWh Sales for Fuel Factor	Workpaper 7	88,545,366					
9	NC Retail Projected Billing Period MWh Sales	Line 4	58,460,089					
10	Allocation %	Line 9 / Line 8	66.02%					
11	NC Retail Other Fuel Costs	Line 7 * Line 10	\$ 965,925,257					
12	NC Renewable and QF Purchased Power - Capacity	Exhibit 2 Sch 1, Page 2	17,162,430					
13	NC Retail Total Fuel Costs	Line 11 + Line 12	\$ 983,087,687					
14	NC Retail Projected Billing Period MWh Sales	Line 4	58,460,089					
15	Calculated Fuel Rate cents/kWh	Line 13 / Line 14 / 10	1.6816					
16	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.0975					
17	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.0000					
18	Total Proposed Composite Fuel Rate	Sum	1.7791					

Total Current Composite Fuel Rate - Docket E-7 Sub 1190:

19	Current composite Fuel Rate cents/kWh	McGee Exhibit 1	1.8901					
20	Current composite EMF Rate cents/kWh	McGee Exhibit 1	0.1346					
21	Current composite EMF Interest Rate cents/kWh	McGee Exhibit 1	0.0000					
22	Total Current Composite Fuel Rate	Sum	2.0247					
23	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 18 - Line 22	(0.2456)					
24	NC Retail Projected Billing Period MWh Sales	Line 4	58,460,089					
25	Increase/(Decrease) in Fuel Costs	Line 23 * Line 24 * 10	\$ (143,577,979)					

Note: Rounding differences may occur

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Fuel and Fuel Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 94.39% and Normalized Test Period Sales
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

Line #	Unit	Reference	Generation (MWh) D	Unit Cost (cents/kWh) E	Fuel Cost (\$) D * E = F
1	Total Nuclear	Workpaper 1	59,363,957	0.6041	358,597,316
2	Coal	Calculated	14,197,575	2.7303	387,636,026
3	Gas CT and CC	Workpaper 3 & 4	25,505,409	2.2867	583,236,234
4	Reagents and Byproducts	Workpaper 9	-		21,603,715
5	Total Fossil	Sum	39,702,984		992,475,975
6	Hydro	Workpaper 3	4,305,885		
7	Net Pumped Storage	Workpaper 3	(3,219,894)		
8	Total Hydro	Sum	1,085,991		
9	Solar Distributed Generation		385,094		
10	Total Generation	Line 1 + Line 5 + Line 8 + Line 9	100,538,026		1,351,073,291
11	Less Lee CC Joint Owners	Workpaper 3 & 4	(876,000)		(16,315,588)
12	Less Catawba Joint Owners	Workpaper 3 & 4	(14,848,200)		(89,710,135)
13	Fuel expense recovered through reimbursement	Workpaper 4			(20,370,677)
14	Net Generation	Sum	84,813,826		1,224,676,891
15	Purchased Power	Workpaper 3 & 4	8,286,802		258,610,852
16	JDA Savings Shared	Workpaper 5	-		14,281,717
17	Total Purchased Power	Sum	8,286,802		272,892,569
18	Total Generation and Purchased Power	Line 14 + Line 17	93,100,628		1,497,569,460
19	Fuel expense recovered through intersystem sales	Workpaper 3 & 4	(1,024,819)		(21,248,787)
20	Line losses and Company use	Line 22 - Line 19 - Line 18	(3,945,038)		-
21	System Fuel Expense for Fuel Factor	Lines 18 + 19 + 20			1,476,320,673
22	Normalized Test Period MWh Sales	Exhibit 4	88,130,771		88,130,771
23	Fuel and Fuel Related Costs cents/kWh	Line 21 / Line 22 / 10			1.6751

Note: Rounding differences may occur

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Fuel and Fuel Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 94.39% and Normalized Test Period Sales
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

Line #	Description	Reference	Residential	GS/Lighting	Industrial	Total
1	NC Normalized Test Period MWh Sales	Exhibit 4	22,444,481	23,688,550	12,489,508	58,622,539
Calculation of Renewable Purchased Power Capacity Rate by Class						
						<u>Amount</u>
2	Purchased Power for REPS Compliance - Capacity	Workpaper 4				\$ 13,122,631
3	QF Purchased Power - Capacity	Workpaper 4				<u>12,285,396</u>
4	Total of Renewable and QF Purchased Power Capacity	Line 2 + Line 3				<u>\$ 25,408,027</u>
5	NC Portion - Jurisdictional % based on Production Plant Allocator	Input				<u>67.55%</u>
6	NC Renewable and QF Purchased Power - Capacity	Line 4 * Line 5				\$ 17,162,430
7	Production Plant Allocation Factors	Input	45.44%	38.35%	16.21%	100.00%
8	Renewable and QF Purchased Power - Capacity allocated on Production Plant %	Line 6 * Line 7	\$ 7,799,064	\$ 6,581,827	\$ 2,781,540	\$ 17,162,430
9	Renewable and QF Purchased Power - Capacity cents/kWh based on Projected Billing Period Sales	Line 8 / Line 1 / 10	0.0347	0.0278	0.0223	0.0293
Summary of Total Rate by Class						
10	Fuel and Fuel Related Costs excluding Purchased Power for REPS Compliance and QF Purchased Capacity cents/kWh	Line 15 - Line 11 - Line 13 - Line 14	1.5687	1.7247	1.6411	1.6494
11	REPS Compliance and QF Purchased Power - Capacity cents/kWh	Line 9	0.0347	0.0278	0.0223	0.0293
12	Total adjusted Fuel and Fuel Related Costs cents/kWh	Line 10 + Line 11	<u>1.6034</u>	<u>1.7525</u>	<u>1.6634</u>	<u>1.6787</u>
13	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.0364	0.0666	0.2658	0.0975
14	EMF Interest (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	-	-	-	-
15	Net Fuel and Fuel Related Costs Factors cents/kWh	Exh 2 Sch 2 Page 3	<u>1.6398</u>	<u>1.8191</u>	<u>1.9292</u>	<u>1.7762</u>

Note: Rounding differences may occur

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Uniform Percentage Average Bill Adjustment by Customer Class
Proposed Nuclear Capacity Factor of 94.39% and Normalized Test Period Sales
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

Revised McGee Exhibit 2
Schedule 2
Page 3 of 3

Line #	Rate Class	Normalized Test Period MWh Sales	Annual Revenue at Current rates	Allocate Fuel Costs Increase/(Decrease) to Customer Class	Increase/(Decrease) as % of Annual Revenue at Current Rates	Total Fuel Rate Increase/(Decrease)	Current Total Fuel Rate (including Capacity and EMF) E-7, Sub 1190	Proposed Total Fuel Rate (including Capacity and EMF)
		A	B	C	D	E	F	G
		Exhibit 4	Workpaper 8	Line 25 as a % of Column B	C / B	If D=0 then 0 if not then (C*100)/(A*1000)	McGee Exhibit 1	E + F = G
1	Residential	22,444,481	\$ 2,282,179,536	\$ (69,635,913)	-3.05%	(0.3103)	1.9501	1.6398
2	General Service/Lighting	23,688,550	\$ 1,783,527,535	(54,420,595)	-3.05%	(0.2297)	2.0488	1.8191
3	Industrial	12,489,508	\$ 708,569,199	(21,620,500)	-3.05%	(0.1731)	2.1023	1.9292
4	NC Retail	58,622,539	\$ 4,774,276,270	\$ (145,677,008)				
Total Proposed Composite Fuel Rate:								
5	Total Fuel Costs for Allocation	Workpaper 7a	\$ 1,481,594,665					
6	Total of Renewable and QF Purchased Power Capacity	Exhibit 2 Sch 2, Page 2	25,408,027					
7	System Other Fuel Costs	Line 5 - Line 6	\$ 1,456,186,638					
8	Normalized Test Period System MWh Sales for Fuel Factor	Workpaper 7a	88,292,898					
9	NC Retail Normalized Test Period MWh Sales	Exhibit 4	58,622,539					
10	Allocation %	Line 9 / Line 8	66.40%					
11	NC Retail Other Fuel Costs	Line 7 * Line 10	\$ 966,907,927					
12	NC Renewable and QF Purchased Power - Capacity	Exhibit 2 Sch 2, Page 2	17,162,430					
13	NC Retail Total Fuel Costs	Line 11 + Line 12	\$ 984,070,357					
14	NC Retail Normalized Test Period MWh Sales	Line 9	58,622,539					
15	Calculated Fuel Rate cents/kWh	Line 13 / Line 14 / 10	1.6787					
16	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.0975					
17	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.0000					
18	Total Proposed Composite Fuel Rate	Sum	1.7762					
Total Current Composite Fuel Rate - Docket E-7 Sub 1190:								
19	Current composite Fuel Rate cents/kWh	McGee Exhibit 1	1.8901					
20	Current composite EMF Rate cents/kWh	McGee Exhibit 1	0.1346					
21	Current composite EMF Interest Rate cents/kWh	McGee Exhibit 1	0.0000					
22	Total Current Composite Fuel Rate	Sum	2.0247					
23	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 18 - Line 22	(0.2485)					
24	NC Retail Normalized Test Period MWh Sales	Exhibit 4	58,622,539					
25	Increase/(Decrease) in Fuel Costs	Line 23 * Line 24 * 10	\$ (145,677,009)					

Note: Rounding differences may occur

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
NERC 5 Year Average Nuclear Capacity Factor of 91.60% and Projected Period Sales
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

McGee Exhibit 2
Schedule 3
Page 1 of 3

Line #	Unit	Reference	Generation (MWh)	Unit Cost (cents/kWh)	Fuel Cost (\$)
			D	E	D * E = F
1	Total Nuclear	Workpaper 2	57,614,320	0.6041	348,028,357
2	Coal	Calculated	15,762,058	2.7303	430,351,081
3	Gas CT and CC	Workpaper 3 & 4	25,505,409	2.2867	583,236,234
4	Reagents and Byproducts	Workpaper 9	-		21,603,715
5	Total Fossil	Sum	41,267,467		1,035,191,030
6	Hydro	Workpaper 3	4,305,885		
7	Net Pumped Storage	Workpaper 3	(3,219,894)		
8	Total Hydro	Sum	1,085,991		
9	Solar Distributed Generation	Workpaper 3	385,094		
10	Total Generation	Line 1 + Line 5 + Line 8 + Line 9	100,352,872		1,383,219,387
11	Less Lee CC Joint Owners	Workpaper 3 & 4	(876,000)		(16,315,588)
12	Less Catawba Joint Owners	Calculated	(14,410,578)		(87,066,102)
13	Fuel expense recovered through reimbursement	Workpaper 4			(20,370,677)
14	Net Generation	Sum	85,066,294		1,259,467,020
15	Purchased Power	Workpaper 3 & 4	8,286,802		258,610,852
16	JDA Savings Shared	Workpaper 5	-		14,281,717
17	Total Purchased Power	Sum	8,286,802		272,892,569
18	Total Generation and Purchased Power	Line 14 + Line 17	93,353,096		1,532,359,589
19	Fuel expense recovered through intersystem sales	Workpaper 3 & 4	(1,024,819)		(21,248,787)
20	Line losses and Company use	Line 22 - Line 19 - Line 18	(3,945,038)		-
21	System Fuel Expense for Fuel Factor	Lines 18 + 19 + 20			1,511,110,802
22	Projected System MWh Sales for Fuel Factor	Workpaper 7b	88,383,239		88,383,239
23	Fuel and Fuel Related Costs cents/kWh	Line 21 / Line 22 / 10			1.7097

Note: Rounding differences may occur

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Fuel and Fuel Related Cost Factors Using:
NERC 5 Year Average Nuclear Capacity Factor of 91.60% and Projected Period Sales
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

Line #	Description	Reference	Residential	GS/Lighting	Industrial	Total
1	NC Projected Billing Period MWh Sales	Workpaper 7b	22,067,951	23,951,115	12,441,023	58,460,089
Calculation of Renewable Purchased Power Capacity Rate by Class						<u>Amount</u>
2	Purchased Power for REPS Compliance - Capacity	Workpaper 4				\$ 13,122,631
3	QF Purchased Power - Capacity	Workpaper 4				12,285,396
4	Total of Renewable and QF Purchased Power Capacity	Line 2 + Line 3				\$ 25,408,027
5	NC Portion - Jurisdictional % based on Production Plant Allocator	Input				67.55%
6	NC Renewable and QF Purchased Power - Capacity	Line 4 * Line 5				\$ 17,162,430
7	Production Plant Allocation Factors	Input	45.44%	38.35%	16.21%	100.00%
8	Renewable and QF Purchased Power - Capacity allocated on Production Plant %	Line 6 * Line 7	\$ 7,799,064	\$ 6,581,827	\$ 2,781,540	\$ 17,162,430
9	Renewable and QF Purchased Power - Capacity cents/kWh based on Projected Billing Period Sales	Line 8 / Line 1 / 10	0.0353	0.0275	0.0224	0.0294
Summary of Total Rate by Class						
10	Fuel and Fuel Related Costs excluding Purchased Power for REPS Compliance and QF Purchased Capacity cents/kWh	Line 15 - Line 11 - Line 13 - Line 14	1.6073	1.7595	1.6648	1.6837
11	REPS Compliance and QF Purchased Power - Capacity cents/kWh	Line 9	0.0353	0.0275	0.0224	0.0294
12	Total adjusted Fuel and Fuel Related Costs cents/kWh	Line 10 + Line 11	1.6426	1.7870	1.6872	1.7131
13	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.0364	0.0666	0.2658	0.0975
14	EMF Interest (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	-	-	-	-
15	Net Fuel and Fuel Related Costs Factors cents/kWh	Exh 2 Sch 3 Page 3	1.6790	1.8536	1.9530	1.8106

Note: Rounding differences may occur

Line #	Rate Class	Projected Billing Period MWh Sales	Annual Revenue at Current rates	Allocate Fuel Costs Increase/(Decrease) to Customer Class	Increase/Decrease as % of Annual Revenue at Current Rates	Total Fuel Rate Increase/(Decrease)	Current Total Fuel Rate (including Capacity and EMF) E-7, Sub 1190	Proposed Total Fuel Rate (including Capacity and EMF)
		A	B	C	C / B = D	E	F	G
		Workpaper 7b	Workpaper 8	Line 25 as a % of Column B	C / B	If D=0 then 0 if not then (C*100)/(A*1000)	McGee Exhibit 1	E + F = G
1	Residential	22,067,951	\$ 2,282,179,536	\$ (59,829,917)	-2.62%	(0.2711)	1.9501	1.6790
2	General Service/Lighting	23,951,115	\$ 1,783,527,535	\$ (46,757,191)	-2.62%	(0.1952)	2.0488	1.8536
3	Industrial	12,441,023	\$ 708,569,199	\$ (18,575,943)	-2.62%	(0.1493)	2.1023	1.9530
4	NC Retail	58,460,089	\$ 4,774,276,270	\$ (125,163,051)				
Total Proposed Composite Fuel Rate:								
5	Total Fuel Costs for Allocation	Workpaper 7b	\$ 1,516,384,800					
6	Total of Renewable and QF Purchased Power Capacity	Exhibit 2 Sch 3, Page 2	25,408,027					
7	System Other Fuel Costs	Line 5 - Line 6	\$ 1,490,976,773					
8	Adjusted Projected System MWh Sales for Fuel Factor	Workpaper 7b	88,545,366					
9	NC Retail Projected Billing Period MWh Sales	Line 4	58,460,089					
10	Allocation %	Line 9 / Line 8	66.02%					
11	NC Retail Other Fuel Costs	Line 7 * Line 10	\$ 984,342,865					
12	NC Renewable and QF Purchased Power - Capacity	Exhibit 2 Sch 3, Page 2	17,162,430					
13	NC Retail Total Fuel Costs	Line 11 + Line 12	\$ 1,001,505,295					
14	NC Retail Projected Billing Period MWh Sales	Line 4	58,460,089					
15	Calculated Fuel Rate cents/kWh	Line 13 / Line 14 / 10	1.7131					
16	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.0975					
17	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.0000					
18	Total Proposed Composite Fuel Rate	Sum	1.8106					
Total Current Composite Fuel Rate - Docket E-7 Sub 1190:								
19	Current composite Fuel Rate cents/kWh	McGee Exhibit 1	1.8901					
20	Current composite EMF Rate cents/kWh	McGee Exhibit 1	0.1346					
21	Current composite EMF Interest Rate cents/kWh	McGee Exhibit 1	0.0000					
22	Total Current Composite Fuel Rate	Sum	2.0247					
23	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 18 - Line 22	(0.2141)					
24	NC Retail Projected Billing Period MWh Sales	Line 4	58,460,089					
25	Increase/(Decrease) in Fuel Costs	Line 23 * Line 24 * 10	\$ (125,163,051)					

Note: Rounding differences may occur

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Proposed Composite
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

Line No.	Month	Fuel Cost Incurred ¢/kWh (a)	Fuel Cost Billed ¢/kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/ Under Recovery (d)
1	January 2019 (1)			5,021,050	\$ 14,748,999
2	February			5,026,972	\$ 26,351,993
3	March(1)			4,366,364	\$ 6,488,079
4	April			4,263,830	\$ 846,148
5	May(1)			4,421,390	\$ 13,794,537
6	June			5,029,189	\$ 4,512,864
7	July			5,524,189	\$ 25,226,650
8	August			5,710,821	\$ 15,596,501
9	September			5,512,227	\$ 9,336,491
10	October(1)			4,692,562	\$ (6,369,305)
11	November			4,299,809	\$ 6,118,779
12	December(1)			4,774,120	\$ (7,262,312)
13	Total Test Period			58,642,521	\$ 109,389,423
14	January 2020				\$ (7,772,097)
15	February 2020				\$ (22,331,606)
16	March 2020				\$ (22,145,172)
17	Total (Over)/Under Recovery - Update Period January -March 2020				\$ (52,248,875)
18	Total (Over)/Under Recovery - Test Period and Update Period				\$ 57,140,548
19	NC Retail Normalized Test Period MWh Sales			Exhibit 4	58,622,539
20	Experience Modification Increment (Decrement) cents/kWh				0.0975

⁽¹⁾ Prior period corrections not included in rate incurred but are included in over/(under) recovery total
Rounding differences may occur

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Residential
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

Line #	Month	Fuel Cost Incurred ¢/kWh (a)	Fuel Cost Billed ¢/kWh (b)	NC Retail MWH Sales (c)	Reported (Over)/ Under Recovery (d)
1	January 2019 (1)	1.6843	1.7003	2,194,231	\$ (326,600)
2	February	1.9667	1.7003	2,094,914	\$ 5,580,727
3	March(1)	1.7655	1.7062	1,704,915	\$ 946,440
4	April	1.9025	1.7062	1,446,157	\$ 2,839,260
5	May(1)	2.3061	1.7062	1,438,256	\$ 8,673,370
6	June	1.8414	1.7062	1,831,778	\$ 2,477,447
7	July	2.0729	1.7062	2,144,971	\$ 7,865,439
8	August	1.9124	1.7062	2,209,124	\$ 4,555,238
9	September	1.9306	1.7648	2,048,666	\$ 3,397,342
10	October(1)	1.7998	1.8179	1,627,070	\$ (176,470)
11	November	2.1806	1.8185	1,422,163	\$ 5,149,854
12	December(1)	1.5029	1.8127	1,929,578	\$ (5,657,382)
13	Total Test Period			22,091,823	\$ 35,324,665
14	Test Period Wtd Avg. ¢/kWh	1.8931	1.7352		
15	January 2020	1.4459	1.8127	2,021,126	\$ (7,413,792)
16	February 2020	1.2613	1.8127	1,940,656	\$ (10,701,006)
17	March 2020	1.2791	1.8127	1,693,572	\$ (9,037,706)
18	Total (Over)/Under Recovery - Update Period January -March 2020				\$ (27,152,504)
19	Total (Over)/Under Recovery - Test Period and Update Period				\$ 8,172,161
20	NC Retail Normalized Test Period MWh Sales		Exhibit 4	22,444,481	
21	Experience Modification Increment (Decrement) cents/kWh				0.0364

Notes:

⁽¹⁾ Prior period corrections not included in rate incurred but are included in over/(under) recovery total

Rounding differences may occur

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - GS/Lighting
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

Line #	Month	Fuel Cost Incurred ¢/kWh (a)	Fuel Cost Billed ¢/kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/ Under Recovery (d)
1	January 2019 (1)	2.2307	1.8314	1,936,499	\$ 7,761,641
2	February	2.5196	1.8314	1,911,117	\$ 13,151,612
3	March(1)	2.0159	1.8373	1,744,567	\$ 3,110,115
4	April	1.7881	1.8373	1,796,520	\$ (884,254)
5	May(1)	1.9920	1.8373	1,944,912	\$ 3,019,902
6	June	1.8353	1.8373	2,140,511	\$ (43,029)
7	July	2.2590	1.8373	2,277,488	\$ 9,604,973
8	August	2.0663	1.8373	2,362,000	\$ 5,409,863
9	September	1.9981	1.9024	2,322,021	\$ 2,224,259
10	October(1)	1.6777	1.9614	2,064,595	\$ (5,747,964)
11	November	1.9803	1.9620	1,867,139	\$ 340,996
12	December(1)	1.8270	1.9562	1,892,532	\$ (2,189,448)
13	Total Test Period			24,259,901	\$ 35,758,666
14	Test Period Wtd Avg. ¢/kWh	2.0178	1.8720		
15	January 2020	1.8136	1.9562	1,919,161	\$ (2,736,820)
16	February 2020	1.5188	1.9562	1,917,354	\$ (8,385,933)
17	March 2020	1.4558	1.9562	1,771,910	\$ (8,865,883)
18	Total (Over)/Under Recovery - Update Period January -March 2020				\$ (19,988,636)
19	Total (Over)/Under Recovery - Test Period and Update Period				\$ 15,770,030
20	NC Retail Normalized Test Period MWh Sales			Exhibit 4	23,688,550
21	Experience Modification Increment (Decrement) cents/kWh				0.0666

Notes:

⁽¹⁾ Prior period corrections not included in rate incurred but are included in over/(under) recovery total
Rounding differences may occur

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Industrial
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

Line #	Month	Fuel Cost Incurred ¢/kWh (a)	Fuel Cost Billed ¢/kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/ Under Recovery (d)
1	January 2019 (1)	2.6216	1.8020	890,321	\$ 7,313,957
2	February	2.5483	1.8020	1,020,942	\$ 7,619,655
3	March(1)	2.0724	1.8079	916,881	\$ 2,431,522
4	April	1.6993	1.8079	1,021,153	\$ (1,108,857)
5	May(1)	2.0148	1.8079	1,038,221	\$ 2,101,265
6	June	2.0046	1.8079	1,056,900	\$ 2,078,447
7	July	2.5119	1.8079	1,101,729	\$ 7,756,238
8	August	2.3020	1.8079	1,139,697	\$ 5,631,400
9	September	2.1810	1.8556	1,141,540	\$ 3,714,890
10	October(1)	1.8500	1.8988	1,000,897	\$ (444,872)
11	November	1.9614	1.8993	1,010,506	\$ 627,928
12	December(1)	1.9470	1.8935	952,010	\$ 584,518
13	Total Test Period			12,290,797	\$ 38,306,091
14	Test Period Wtd Avg. ¢/kWh	2.1439	1.8330		
15	January 2020	2.1705	1.8935	858,763	\$ 2,378,515
16	February 2020	1.5672	1.8935	994,505	\$ (3,244,668)
17	March 2020	1.4487	1.8935	953,523	\$ (4,241,584)
18	Total (Over)/Under Recovery - Update Period January -March 2020				\$ (5,107,737)
19	Total (Over)/Under Recovery - Test Period and Update Period				\$ 33,198,354
20	NC Retail Normalized Test Period MWh Sales			Exhibit 4	12,489,508
21	Experience Modification Increment (Decrement) cents/kWh				0.2658

Notes:

⁽¹⁾ Prior period corrections not included in rate incurred but are included in over/(under) recovery total
Rounding differences may occur

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Sales, Fuel Revenue, Fuel Expense and System Peak
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

McGee Exhibit 4

Line #	Description	Reference	Total Company	North Carolina Retail	North Carolina Residential	North Carolina General Service/Lighting	North Carolina Industrial
1	Test Period MWh Sales (excluding inter system sales)	Exhibit 6 Schedule 1 (Line 4) and Workpaper 11 (NC retail)	87,911,333	58,642,521	22,091,823	24,259,901	12,290,797
2	Customer Growth MWh Adjustment	Workpaper 13 Pg 1	455,048	296,714	185,000	48,348	63,366
3	Weather MWh Adjustment	Workpaper 12	(235,610)	(316,696)	167,658	(619,699)	135,345
4	Total Normalized MWh Sales	Sum	88,130,771	58,622,539	22,444,481	23,688,550	12,489,508
5	Test Period Fuel and Fuel Related Revenue *		\$ 1,669,292,496	\$ 1,062,783,555			
6	Test Period Fuel and Fuel Related Expense *		\$ 1,749,171,043	\$ 1,172,172,978			
7	Test Period Unadjusted (Over)/Under Recovery		\$ 79,878,546	\$ 109,389,423			
				Summer Coincidental Peak (CP) kW			
8	Total System Peak		17,626,362				
9	NC Retail Peak		11,906,127				
10	NC Residential Peak		5,410,460				
11	NC General Service/Lighting Peak		4,566,024				
12	NC Industrial Peak		1,929,643				

* Total Company Fuel and Fuel Related Revenue and Fuel and Fuel Related Expense are determined based upon the fuel and fuel related cost recovery mechanisms in each of the company's jurisdictions.

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Nuclear Capacity Ratings
Test Period Ended December 31, 2019
Billing Period September 2020 - August 2021
Docket E-7, Sub 1228

McGee Exhibit 5

Unit	Rate Case Docket E-7, Sub 1146	Fuel Docket E-7, Sub 1190	Proposed Capacity Rating MW
Oconee Unit 1	847	847.0	847.0
Oconee Unit 2	848	848.0	848.0
Oconee Unit 3	859	859.0	859.0
McGuire Unit 1	1,158	1158.0	1158.0
McGuire Unit 2	1,158	1157.6	1157.6
Catawba Unit 1	1,160	1160.1	1160.1
Catawba Unit 2	1,150	1150.1	1150.1
Total Company	7,180	7,179.8	7,179.8

DECEMBER 2019 MONTHLY FUEL FILING

DUKE ENERGY CAROLINAS
SUMMARY OF MONTHLY FUEL REPORT

Docket No. E-7, Sub 1198

Line No.	December 2019	12 Months Ended December 2019
1 Fuel and fuel-related costs	\$ 122,817,184	\$ 1,750,175,434
MWH sales:		
2 Total system sales	7,221,215	89,956,771
3 Less intersystem sales	<u>70,226</u>	<u>2,045,438</u>
4 Total sales less intersystem sales	<u><u>7,150,989</u></u>	<u><u>87,911,333</u></u>
5 Total fuel and fuel-related costs (¢/KWH) (line 1/line 4)	<u><u>1.7175</u></u>	<u><u>1.9908</u></u>
6 Current fuel and fuel-related cost component (¢/KWH) (per Schedule 4, Line 7a Total)	<u><u>1.8856</u></u>	
Generation Mix (MWH):		
Fossil (by primary fuel type):		
7 Coal	1,208,156	20,916,177
8 Fuel Oil	7,779	97,907
9 Natural Gas - Combined Cycle	1,310,358	14,049,112
10 Natural Gas - Combined Heat and Power	(243)	(243)
11 Natural Gas - Combustion Turbine	56,622	1,062,059
12 Natural Gas - Steam	25,471	1,157,313
13 Biogas	2,160	17,335
14 Total fossil	<u>2,610,303</u>	<u>37,299,660</u>
15 Nuclear 100%	5,203,803	61,066,543
16 Hydro - Conventional	219,651	2,427,405
17 Hydro - Pumped storage	<u>(48,643)</u>	<u>(713,520)</u>
18 Total hydro	171,008	1,713,885
19 Solar Distributed Generation	8,911	142,127
20 Total MWH generation	7,994,025	100,222,215
21 Less joint owners' portion - Nuclear	1,409,284	15,822,621
22 Less joint owners' portion - Combined Cycle	297,823	893,946
23 Adjusted total MWH generation	<u><u>6,286,918</u></u>	<u><u>83,505,648</u></u>

Note: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY CAROLINAS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Docket No. E-7, Sub 1198

Fuel and fuel-related costs:	<u>December 2019</u>	<u>12 Months Ended December 2019</u>
0501110 coal consumed - steam	\$ 35,851,930	\$ 688,831,904
0501310 fuel oil consumed - steam	262,693	7,285,496
0501330 fuel oil light-off - steam	740,317	6,451,433
Total Steam Generation - Account 501	<u>36,854,940</u>	<u>702,568,833</u>
 Nuclear Generation - Account 518		
0518100 burnup of owned fuel	22,398,036	270,484,487
 Other Generation - Account 547		
0547100, 0547124 - natural gas consumed - Combustion Turbine	2,310,732	40,328,338
0547100 natural gas consumed - Steam	1,596,367	42,380,517
0547101 natural gas consumed - Combined Cycle	30,560,920	322,366,652
0547101 natural gas consumed - Combined Heat and Power	54,658	54,658
0547106 biogas consumed - Combined Cycle	116,664	936,054
0547200 fuel oil consumed - Combustion Turbine	255,506	949,755
Total Other Generation - Account 547	<u>34,894,847</u>	<u>407,015,974</u>
 Reagents		
Catalyst Depreciation Expense		A
Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents)	1,165,420	24,629,578
Total Reagents	<u>1,165,420</u>	<u>24,629,578</u>
 By-products		
Net proceeds from sale of by-products	1,314,235	8,920,508
Total By-products	<u>1,314,235</u>	<u>8,920,508</u>
 Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component	 96,627,478	 1,413,619,380
 Purchased Power and Net Interchange - Account 555		
Capacity component of purchased power (economic)	213,366	10,668,301
Capacity component of purchased power (renewables)	594,090	15,300,779
Capacity component of purchased power (PURPA)	187,603	6,969,349
Fuel and fuel-related component of purchased power	27,443,813	365,056,791
Total Purchased Power and Net Interchange - Account 555	<u>28,438,872</u>	<u>397,995,220</u>
 Less:		
Fuel and fuel-related costs recovered through intersystem sales	2,169,260	60,148,973
Fuel in loss compensation	79,276	1,279,432
Solar Integration Charge	628	10,761
Total Fuel Credits - Accounts 447 /456	<u>2,249,164</u>	<u>61,439,166</u>
 Total Fuel and Fuel-related Costs	 <u>\$ 122,817,184</u>	 <u>\$ 1,750,175,434</u>

Notes: Detail amounts may not add to totals shown due to rounding.
Report reflects net ownership costs of jointly owned facilities.

A Reflects removal of catalyst depreciation expense from fuel costs. Associated prior period adjustment to over/under collection included on Schedule 4.

**DUKE ENERGY CAROLINAS
PURCHASED POWER AND INTERCHANGE
SYSTEM REPORT - NORTH CAROLINA VIEW**

December 2019

Exhibit 6
Schedule 3 - Purchases
Page 1 of 4

Purchased Power	Total	Capacity	Non-capacity			
			mWh	Fuel \$	Fuel-related \$	Not Fuel \$ Not Fuel-related \$
Economic	\$	\$				
Cherokee County Cogeneration Partners	\$ 1,679,149	\$ 213,366	44,941	\$ 1,262,453	\$ 203,330	
DE Progress - Native Load Transfer	12,821,002	-	679,100	11,796,943	1,024,484	\$ (425)
DE Progress - Native Load Transfer Benefit	2,681,632	-	-	2,681,632	-	
DE Progress - Fees	(336)	-	-	-	(336)	
Exelon Generation Company, LLC.	139,640	-	3,738	85,180	54,460	
Haywood Electric - Economic	20,196	20,030	5	101	65	
Macquarie Energy, LLC	1,127,136	-	39,632	687,553	439,583	
NCMPA - Economic	16,800	-	400	10,248	6,552	
NCMPA Instantaneous - Economic	859,121	-	43,102	509,373	349,748	
NTE Carolinas LLC	609,000	-	24,900	371,490	237,510	
Piedmont Municipal Power Agency	284,034	-	15,447	168,404	115,630	
PJM Interconnection, LLC.	19,080	-	1,124	11,639	7,441	
South Carolina Electric & Gas Company / Dominion Energy	26,216	-	900	15,991	10,224	
Southern Company Services, Inc.	272,090	-	13,139	165,975	106,115	
Tennessee Valley Authority	185,407	-	5,372	113,098	72,309	
The Energy Authority	18,625	-	500	11,361	7,264	
Town of Dallas	584	584	-	-	-	
Town of Forest City	19,856	19,856	-	-	-	
	\$ 20,779,232	\$ 253,836	872,300	\$ 17,891,442	\$ 2,634,380	\$ (425)
Renewable Energy						
REPS	\$ 4,555,891	\$ 591,922	81,362	\$ -	\$ 3,963,969	\$ -
DERP - Purchased Power	24,691	2,168	390	-	15,590	6,933
	\$ 4,580,582	\$ 594,090	81,752	\$ -	\$ 3,979,559	\$ 6,933
HB589 PURPA Purchases						
Qualifying Facilities	2,350,054	187,603	46,154	-	2,090,407	72,044
	\$ 2,350,054	\$ 187,603	46,154	\$ -	\$ 2,090,407	\$ 72,044
Non-dispatchable / Other						
Blue Ridge Electric Membership Corp.	\$ 1,330,476	\$ 743,419	24,753	\$ 358,105		\$ 228,952
DE Progress - As Available Capacity	14,515	14,515	-	-		-
Haywood Electric	332,643	152,148	6,891	110,102		70,393
Macquarie Energy, LLC	63,800	-	1,595	38,918		24,882
NCEMC - Other	267,337	4,657	3,980	160,235		102,445
Piedmont Electric Membership Corp.	645,228	360,960	11,904	173,403		110,865
Generation Imbalance	246,069	-	4,699	70,161		175,908
Energy Imbalance - Purchases	39,310	-	1,594	31,084		8,226
Energy Imbalance - Sales	(17,924)	-	-	(17,497)		(427)
Other Purchases	524	-	15	-		524
	\$ 2,921,979	\$ 1,275,700	55,431	\$ 924,510	\$ -	\$ 721,769
Total Purchased Power	\$ 30,631,847	\$ 2,311,229	1,055,637	\$ 18,815,952	\$ 8,704,346	\$ 800,320
Interchanges In						
Other Catawba Joint Owners	7,605,405	-	711,849	4,584,919		3,020,486
WS Lee Joint Owner	394,081	-	11,162	305,194		88,887
Total Interchanges In	7,999,485	-	723,011	4,890,113		3,109,373
Interchanges Out						
Other Catawba Joint Owners	(7,451,355)	(134,209)	(692,834)	(4,464,622)		(2,852,524)
Catawba- Net Negative Generation	-	-	-	-		-
WS Lee Joint Owner	(617,693)	-	(20,599)	(501,976)		(115,716)
Total Interchanges Out	(8,069,048)	(134,209)	(713,433)	(4,966,598)		(2,968,240)
Net Purchases and Interchange Power	\$ 30,562,284	\$ 2,177,020	1,065,215	\$ 18,739,467	\$ 8,704,346	\$ 941,453

NOTE: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY CAROLINAS
 INTERSYSTEM SALES*
 SYSTEM REPORT - NORTH CAROLINA VIEW**

DECEMBER 2019

Exhibit 6
 Schedule 3 - Sales
 Page 2 of 4

Sales	Total \$	Capacity \$	Non-capacity		
			mWh	Fuel \$	Non-fuel \$
Utilities:					
SC Electric & Gas - Emergency	\$ 31,543	-	470	\$ 27,262	\$ 4,281
Market Based:					
Central Electric Power Cooperative, Inc.	458,000	\$ 458,000	-	-	-
NCMPA	91,985	87,500	48	4,187	298
PJM Interconnection, LLC.	168	-	-	-	168
Other:					
DE Progress - Native Load Transfer Benefit	309,999	-	-	309,999	-
DE Progress - Native Load Transfer	1,806,427	-	67,488	1,784,838	21,589
Generation Imbalance	64,487	-	2,220	42,974	21,513
BPM Transmission	-	-	-	-	-
Total Intersystem Sales	\$ 2,762,609	\$ 545,500	70,226	\$ 2,169,260	\$ 47,849

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY CAROLINAS
PURCHASED POWER AND INTERCHANGE
SYSTEM REPORT - NORTH CAROLINA VIEW**

**Twelve Months Ended
December 2019**

Exhibit 6
Schedule 3 - Purchases
Page 3 of 4

Purchased Power	Total	Capacity	Non-capacity			
			mWh	Fuel \$	Fuel-related \$	Not Fuel \$
Economic	\$	\$				Not Fuel-related \$
Cherokee County Cogeneration Partners	\$ 29,493,641	\$ 10,668,301	579,750	\$ 16,005,055	\$ 2,820,285	
DE Progress - Native Load Transfer	118,187,137	-	5,379,774	106,969,125	11,081,282	\$ 136,730
DE Progress - Native Load Transfer (Prior Period Adjust)	51,500,000	-	-	31,415,000	20,085,000	
DE Progress - Native Load Transfer Benefit	16,958,183	-	-	16,958,183	-	
DE Progress - Fees	(605,444)	-	-	-	(605,444)	
EDF Trading North America, LLC.	1,400	-	50	854	546	
Exelon Generation Company, LLC.	383,690	-	10,093	234,051	149,639	
Haywood Electric - Economic	326,963	298,730	1,612	59,547	(31,314)	
Macquarie Energy, LLC	15,963,711	-	516,706	9,737,863	6,225,848	
Morgan Stanley Capital Group	95,905	-	3,200	58,502	37,403	
NCEMC	223,880	-	9,040	136,567	87,313	
NCMPA	16,800	-	400	10,248	6,552	
NCMPA Load Following Economic	12,022,983	-	503,380	7,118,791	4,904,192	
NTE Carolinas LLC	6,091,751	-	217,073	3,715,969	2,375,782	
Piedmont Municipal Power Agency	3,235,884	-	140,334	1,902,778	1,333,106	
PJM Interconnection, LLC.	17,611,868	-	556,050	10,743,799	6,868,069	
South Carolina Electric & Gas Company / Dominion Energy	62,954	-	1,800	38,127	24,827	
Southern Company Services, Inc.	1,126,440	-	61,230	687,130	439,310	
Tennessee Valley Authority	298,582	-	10,277	182,135	116,447	
The Energy Authority	83,800	-	2,295	51,118	32,682	
Town of Dallas	7,008	7,008	-	-	-	
Town of Forest City	238,272	238,272	-	-	-	
	\$ 273,325,408	\$ 11,212,311	7,993,064	\$ 206,024,843	\$ 55,951,524	\$ 136,730
Renewable Energy						
REPS	\$ 71,364,365	\$ 15,267,970	1,117,992	\$ -	\$ 56,096,395	\$ -
DERP - Purchased Power	360,035	32,809	5,844	-	233,533	93,693
DERP - Net Metered Generation	44,824	8,197	3	-	-	36,627
	\$ 71,769,224	\$ 15,308,976	1,123,838	\$ -	\$ 56,329,928	\$ 130,320
HB589 PURPA Purchases						
Qualifying Facilities	34,809,936	\$ 6,969,349	580,279	\$ -	\$ 26,764,794	\$ 1,075,793
	\$ 34,809,936	\$ 6,969,349	580,279	\$ -	\$ 26,764,794	\$ 1,075,793
Non-dispatchable / Other						
Carolina Power & Light (DE Progress) - Emergency	\$ 42,255	\$ -	1,275	\$ 25,775	\$ -	\$ 16,480
Blue Ridge Electric Membership Corp.	15,087,901	8,355,253	300,145	4,106,914	-	2,625,734
DE Progress - As Available Capacity	206,116	206,116	-	-	-	-
Haywood Electric	3,979,790	1,896,338	80,812	1,270,906	-	812,546
Macquarie Energy, LLC	12,796,565	-	216,547	7,805,904	-	4,990,661
NCEMC - Other	2,205,353	56,208	42,315	1,310,979	-	838,166
NCMPA - Reliability	24,800	-	400	15,128	-	9,672
NTE Carolinas LLC	2,437,980	-	49,870	1,487,168	-	950,812
Piedmont Electric Membership Corp.	7,203,245	3,969,255	140,160	1,972,735	-	1,261,255
Southern Company Services, Inc.	1,008,100	-	12,695	614,942	-	393,158
Generation Imbalance	2,122,030	-	83,419	1,359,973	-	762,057
Energy Imbalance - Purchases	571,519	-	(18,945)	333,736	-	237,783
Energy Imbalance - Sales	(1,040,510)	-	-	(1,337,249)	-	296,739
Other Purchases	11,236	-	324	-	-	11,236
	\$ 46,656,380	\$ 14,483,170	909,017	\$ 18,966,910	\$ -	\$ 13,206,300
Total Purchased Power	\$ 426,560,948	\$ 47,973,806	10,606,198	\$ 224,991,753	\$ 139,046,246	\$ 14,549,143
Interchanges In						
Other Catawba Joint Owners	82,443,582	-	7,990,626	48,460,268	-	33,983,314
WS Lee Joint Owner	11,034,559	-	394,803	9,338,713	-	1,695,846
Total Interchanges In	93,478,141	-	8,385,428	57,798,980	-	35,679,161
Interchanges Out						
Other Catawba Joint Owners	(79,622,083)	(1,580,207)	(7,667,091)	(46,399,114)	-	(31,642,762)
Catawba- Net Negative Generation	(88,885)	-	(4,227)	(74,385)	-	(14,500)
WS Lee Joint Owner	(12,214,751)	-	(416,958)	(10,306,689)	-	(1,908,062)
Total Interchanges Out	(91,925,719)	(1,580,207)	(8,088,276)	(56,780,188)	-	(33,565,324)
Net Purchases and Interchange Power	\$ 428,113,370	\$ 46,393,599	10,903,350	\$ 226,010,545	\$ 139,046,246	\$ 16,662,980

NOTES: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY CAROLINAS
INTERSYSTEM SALES*
SYSTEM REPORT - NORTH CAROLINA VIEW**

**Twelve Months Ended
DECEMBER 2019**

Exhibit 6
Schedule 3 - Sales
Page 4 of 4

Sales	Total \$	Capacity \$	Non-capacity		
			mWh	Fuel \$	Non-fuel \$
Utilities:					
DE Progress - Emergency	\$ 32,606	-	1,369	\$ 29,331	\$ 3,275
SC Public Service Authority - Emergency	218,264	-	4,679	188,608	29,656
SC Electric & Gas - Emergency	176,126	-	4,765	155,600	20,526
Market Based:					
Central Electric Power Cooperative, Inc.	4,580,000	\$ 4,580,000	-	-	-
Exelon Generation Company, LLC.	27,020	-	688	18,274	8,746
Macquarie Energy, LLC	400,050	-	10,450	282,062	117,988
NCMPA	1,265,860	1,050,350	5,692	221,824	(6,314)
PJM Interconnection, LLC.	499,356	-	13,483	386,349	113,007
SC Electric & Gas	27,383	-	505	17,942	9,441
Southern Company	9,000	-	900	13,435	(4,435)
The Energy Authority	315,490	-	6,195	176,369	139,121
Westar Energy	29,400	-	600	21,733	7,667
Other:					
DE Progress - Native Load Transfer Benefit	5,795,771	-	-	5,795,771	-
DE Progress - Native Load Transfer	54,397,949	-	1,971,074	52,117,830	2,280,119
Generation Imbalance	938,849	-	25,038	723,845	215,004
BPM Transmission	(939,967)	-	-	-	(939,967)
Total Intersystem Sales	\$ 67,773,157	\$ 5,630,350	2,045,438	\$ 60,148,973	\$ 1,993,834

* Sales for resale other than native load priority.

NOTES: Detail amounts may not add to totals shown due to rounding.

Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
December 2019

Line No.		Residential	Commercial	Industrial	Total
1	Actual System kWh sales				7,150,989,325
2	DERP Net Metered kWh generation				10,508,031
3	Adjusted System kWh sales				<u>7,161,497,356</u>
4	N.C. Retail kWh sales	1,929,577,914	1,892,531,687	952,010,008	4,774,119,609
5	NC kWh sales % of actual system kWh sales				66.76%
6	NC kWh sales % of adjusted system kWh sales				66.66%
7	Approved fuel and fuel-related rates (¢/kWh)				
7a	Billed rates by class (¢/kWh)	1.8126	1.9561	1.8934	1.8856
7b	Lime water emissions in Base Rates	0.0001	0.0001	0.0001	0.0001
7c	Total billed rates by class (¢/kWh)	<u>1.8127</u>	<u>1.9562</u>	<u>1.8935</u>	<u>1.8857</u>
7d	Billed fuel expense	\$34,977,459	\$37,021,705	\$18,026,310	\$90,025,474
8	Incurred base fuel and fuel-related (less renewable purchased power capacity) rates by class (¢/kWh)				
8a	Docket E-7, Sub 1190 allocation factor	35.24%	42.14%	22.62%	
8b	System incurred expense				\$122,163,913
8c	Incurred base fuel and fuel-related expense	\$28,697,516	\$34,322,185	\$18,419,291	\$81,438,992
8d	Incurred base fuel rates by class (¢/kWh)	1.4872	1.8136	1.9348	1.7058
9	Incurred renewable purchased power capacity rates by class (¢/kWh)				
9a	NC retail production plant %				67.75%
9b	Production plant allocation factors	44.82%	37.86%	17.32%	100.00%
9c	System incurred expense				\$995,058
9d	Incurred renewable capacity expense	\$302,128	\$255,232	\$116,760	\$674,120
9e	Incurred renewable capacity rates by class (¢/kWh)	0.0157	0.0135	0.0123	0.0141
10	Total incurred rates by class (¢/kWh)	1.5029	1.8270	1.9470	1.7200
11	Difference in ¢/kWh (incurred - billed)	(0.3098)	(0.1292)	0.0535	(0.1657)
12	(Over) / under recovery [See footnote]	<u>(\$5,977,815)</u>	<u>(\$2,444,288)</u>	<u>\$509,741</u>	<u>(\$7,912,362)</u>
13	Prior period adjustments	320,433	254,840	74,777	650,050
14	Total (over) / under recovery [See footnote]	<u>(\$5,657,382)</u>	<u>(\$2,189,448)</u>	<u>\$584,518</u>	<u>(\$7,262,312)</u>
15	Total system incurred expense				\$123,158,971
16	Less: Jurisdictional allocation adjustment(s)				341,787
17	Total Fuel and Fuel-related Costs per Schedule 2				<u>\$122,817,184</u>

18 (Over) / under recovery for each month of the current calendar year [See footnote]

Year 2019	Total To Date	(Over) / Under Recovery			Total Company
		Residential	Commercial	Industrial	
_/1 January	\$14,748,997	(\$326,600)	\$7,761,641	\$7,313,957	\$14,748,997
February	41,100,992	\$5,580,727	\$13,151,612	\$7,619,655	26,351,995
_/1 March	47,589,069	946,440	3,110,115	2,431,522	6,488,077
April	48,435,217	2,839,260	(884,254)	(1,108,857)	846,148
_/1 May	62,229,755	8,673,370	3,019,902	2,101,265	13,794,538
June	66,742,620	2,477,447	(43,029)	2,078,447	4,512,865
July	91,969,270	7,865,439	9,604,973	7,756,238	25,226,650
August	107,565,771	4,555,238	5,409,863	5,631,400	15,596,501
_/2 September	116,902,262	3,397,342	2,224,259	3,714,890	9,336,491
_/2 October	110,532,957	(\$176,470)	(\$5,747,964)	(\$444,872)	(6,369,305)
November	\$116,651,736	5,149,854	340,996	627,928	6,118,779
_/1 December	\$109,389,424	<u>(\$5,657,382)</u>	<u>(\$2,189,448)</u>	<u>\$584,518</u>	<u>(7,262,312)</u>
		\$35,324,665	\$35,758,666	\$38,306,091	\$109,389,424

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts. Under collections, or regulatory assets, are shown as positive amounts.

_/1 Includes prior period adjustments.

_/2 Reflects a prorated rate and prorated allocation factor for periods in which the approved rates changed.

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED COST REPORT
DECEMBER 2019

Exhibit 6
Schedule 5
Page 1 of 2

Description	Allen	Belews	Buck	Catawba	(A)	Cliffside	Dan River	Lee
	Steam	Steam	CC	Nuclear	Clemson CHP	Steam - Dual Fuel	CC	CC
Cost of Fuel Purchased (\$)								
Coal	\$2,320,199	\$16,549,328				\$13,627,538		
Oil	45,499	583,901				169,053		
Gas - CC			\$9,970,150				\$8,074,155	\$14,230,745
Gas - CHP					\$54,658			
Gas - CT								
Gas - Steam						1,596,029		
Biogas			357,518					
Total	\$2,365,698	\$17,133,228	\$10,327,668		\$54,658	\$15,392,619	\$8,074,155	\$14,230,745
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	312.30	260.57				322.87		
Oil	1,484.49	1,485.00				1,474.58		
Gas - CC			348.16				345.25	347.45
Gas - CHP					388.57			
Gas - CT								
Gas - Steam						355.78		
Biogas			2,336.72					
Weighted Average	317.12	268.11	358.73		388.57	328.85	345.25	347.45
Cost of Fuel Burned (\$)								
Coal	\$779,034	\$10,953,735				\$2,204,005		
Oil - CC								
Oil - Steam/CT	39,704	459,597				149,115		
Gas - CC			\$9,970,150				\$8,074,155	\$14,230,745
Gas - CHP					\$54,658			
Gas - CT								
Gas - Steam						1,596,029		
Biogas			357,518					
Nuclear				\$10,342,435				
Total	\$818,738	\$11,413,332	\$10,327,668	\$10,342,435	\$54,658	\$3,949,150	\$8,074,155	\$14,230,745
Average Cost of Fuel Burned (¢/MBTU)								
Coal	315.64	307.81				300.49		
Oil - CC								
Oil - Steam/CT	1,441.18	1,476.29				1,454.79		
Gas - CC			348.16				345.25	347.45
Gas - CHP					388.57			
Gas - CT								
Gas - Steam						355.78		
Biogas			2,336.72					
Nuclear				59.29				
Weighted Average	328.06	317.95	358.73	59.29	388.57	331.21	345.25	347.45
Average Cost of Generation (¢/kWh)								
Coal	4.67	2.92				2.59		
Oil - CC								
Oil - Steam/CT	18.01	13.63				15.25		
Gas - CC			2.47				2.54	2.42
Gas - CHP								
Gas - CT								
Gas - Steam						6.17		
Biogas			16.55					
Nuclear				0.59				
Weighted Average	4.85	3.02	2.54	0.59	-	3.53	2.54	2.42
Burned MBTU's								
Coal	246,812	3,558,552				733,480		
Oil - CC								
Oil - Steam/CT	2,755	31,132				10,250		
Gas - CC			2,863,693				2,338,618	4,095,789
Gas - CHP					14,066			
Gas - CT								
Gas - Steam						448,605		
Biogas			15,300					
Nuclear				17,444,528				
Total	249,567	3,589,684	2,878,993	17,444,528	14,066	1,192,335	2,338,618	4,095,789
Net Generation (mWh)								
Coal	16,667	374,612				84,991		
Oil - CC								
Oil - Steam/CT	220	3,371				978		
Gas - CC			404,369				317,530	588,459
Gas - CHP					(243)			
Gas - CT								
Gas - Steam						25,886		
Biogas			2,160					
Nuclear 100%				1,745,157				
Hydro (Total System)								
Solar (Total System)								
Total	16,887	377,983	406,529	1,745,157	(243)	111,855	317,530	588,459
Cost of Reagents Consumed (\$)								
Ammonia		(\$183,864)	\$16,314			\$66,338	\$3,702	\$21,144
Limestone	\$25,696	303,305				95,536		
Sorbents	-	58,214						
Urea	4,616							
Re-emission Chemical								
Dibasic Acid	-							
Activated Carbon	-							
Lime (water emissions)	-							
Total	30,312	\$177,655	\$16,314			\$161,875	\$3,702	\$21,144

(A) Clemson CHP fuel and fuel related costs represents pre-commercial generation.

Notes:

Detail amounts may not add to totals shown due to rounding.

Data is reflected at 100% ownership.

Schedule excludes in-transit and terminal activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Re-emission chemical reagent expense is not recoverable in NC.

Lime (water emissions) expense is not recoverable in SC fuel clause.

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED COST REPORT
DECEMBER 2019

Exhibit 6
Schedule 5
Page 2 of 2

Lee Steam/CT	Lincoln CT	Marshall Steam	McGuire Nuclear	Mill Creek CT	Oconee Nuclear	Rockingham CT	Current Month	Total 12 ME December 2019
-	-	\$20,011,016 432,089		-			\$52,508,080 1,230,541 32,275,050 54,658	\$694,060,992 14,547,822 337,722,147 54,658
25,901 338	\$68,436			\$192,900		\$2,023,495	2,310,732 1,596,367 357,518	40,328,338 42,380,517 2,384,026
\$26,239	\$68,436	\$20,443,105		\$192,900		\$2,023,495	\$90,332,946	\$1,131,478,500
-	-	266.90 1,494.26		-			279.12 1,486.77 346.85	331.80 1,468.54 338.43
806.33 689.92	375.36			348.46		354.79	388.57 357.07 355.82 2,336.72	388.57 331.44 359.19 1,927.92
806.37	375.36	271.62		348.46		354.79	308.11	338.70
-		\$21,915,155					\$35,851,930	\$688,831,904
90,169	\$7,968	354,592		157,369			1,258,516 32,275,050 54,658	14,686,684 337,722,147 54,658
\$25,901 338	68,436			\$192,900		\$2,023,495	2,310,732 1,596,367 357,518	40,328,338 42,380,517 2,384,026
\$116,408	\$76,404	\$22,269,748	\$10,463,884	\$350,270	\$9,943,647	\$2,023,495	\$104,454,736	\$1,491,014,039
-		307.76					307.49	342.88
1,687.29	1,511.97	1,468.41		1,794.00			1,517.60 346.85 388.57	1,487.46 338.43 388.57
806.33 689.92	375.36			348.46		354.79	357.07 355.82 2,336.72 59.05	331.44 359.19 1,927.92 59.06
1,353.90	407.29	311.69	59.52 59.52	546.19	58.32 58.32	354.79	140.70	158.08
-	-	2.99					2.97	3.29
74.78	31.02	14.62		24.66			16.18 2.46 6.27	15.00 2.40 3.66
29.97	9.22			4.71		3.91	4.08 6.27 16.55 0.59	3.80 3.66 13.75 0.60
-	9.95	3.03	0.59 0.59	7.40	0.59 0.59	3.91	1.31	1.49
-		7,120,799					11,659,643	200,898,297
5,344	527	24,148		8,772			82,928 9,298,100 14,066	987,366 99,790,482 14,066
3,212 42	18,232			55,358		570,335	647,137 448,647 15,300	12,167,439 11,798,774 123,658
8,598	18,759	7,144,947	17,579,448 17,579,448	64,130	17,048,868 17,048,868	570,335	52,072,844 74,238,665	617,400,818 943,180,900
-		731,886					1,208,156	20,916,177
121	26	2,426		638			7,779 1,310,358 (243)	97,907 14,049,112 (243)
86 (415)	742			4,095		51,698	56,622 25,471 2,160	1,062,059 1,157,313 17,335
			1,771,567		1,687,079		5,203,803 171,008 8,911	61,066,543 1,713,885 142,127
(208)	768	734,312	1,771,567	4,733	1,687,079	51,698	7,994,025	100,222,215
		\$537,641 168,388 40,024					(\$76,367) 962,178 226,602 44,639	\$3,302,749 18,302,336 2,001,326 590,744
		-					-	284,446
		-					-	-
		11,061					11,061	171,399 277,536
		\$757,113					\$1,168,113	\$24,930,536

(A) Clemson CHP fuel and fuel related costs represents pre-commercial generation.

Notes:

Detail amounts may not add to totals shown due to rounding.
Data is reflected at 100% ownership.
Schedule excludes in-transit and terminal activity.
Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.
Re-emission chemical reagent expense is not recoverable in NC.
Lime (water emissions) expense is not recoverable in SC fuel clause.

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED CONSUMPTION AND INVENTORY REPORT
DECEMBER 2019

SCHEDULE 6

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED CONSUMPTION AND INVENTORY REPORT
DECEMBER 2019

Exhibit 6
Schedule 6

Description	Allen Steam	Belews Creek Steam	Buck CC	(A) Clemson CHP	Cliffside Steam - Dual Fuel	Dan River CC	Lee CC	Lee Steam/CT	Lincoln CT	Marshall Steam	Mill Creek CT	Rockingham CT	Current Month	Total 12 ME December 2019
Coal Data:														
Beginning balance	137,735	789,951			414,459			-		484,089			1,826,234	1,799,939
Tons received during period	34,735	254,637			190,358					283,764			763,494	8,452,675
Inventory adjustments	(4,081)	0			(14,803)			-		24,397			5,514	4,123
Tons burned during period	10,271	143,490			29,561			-		284,097			467,419	8,128,914
Ending balance	158,118	901,099			560,453			-		508,153			2,127,823	2,127,823
MBTUs per ton burned	24.03	24.80			24.81			-		25.06			24.94	24.71
Cost of ending inventory (\$/ton)	75.85	76.34			74.56			-		77.58			76.13	76.13
Oil Data:														
Beginning balance	102,100	131,858	-		194,655	-	-	603,811	9,716,597	304,891	4,366,782	3,133,258	18,553,952	18,866,098
Gallons received during period	22,210	284,927	-		83,076	-	-	-	-	209,541	-	-	599,754	7,177,481
Miscellaneous adjustments	-	(15,752)	-		(6,298)	-	-	-	-	-	-	-	(21,788)	(348,465)
Gallons burned during period	19,946	225,569	-		74,062	-	-	38,747	3,802	174,735	63,729	-	600,852	7,164,048
Ending balance	104,364	175,464	-		197,371	-	-	565,064	9,712,795	339,697	4,303,053	3,133,258	18,531,066	18,531,066
Cost of ending inventory (\$/gal)	1.99	2.04	-		2.01	-	-	2.33	2.10	2.03	2.47	2.17	2.20	2.20
Natural Gas Data:														
Beginning balance														
MCF received during period			2,782,442	13,697	435,568	2,273,527	3,987,068	3,180	17,791		54,015	552,382	10,119,670	120,302,953
MCF burned during period			2,782,442	13,697	435,568	2,273,527	3,987,068	3,180	17,791		54,015	552,382	10,119,670	120,302,953
Ending balance														
Biogas Data:														
Beginning balance														
MCF received during period			14,866			-	-						14,866	119,928
MCF burned during period			14,866			-	-						14,866	119,928
Ending balance														
Limestone Data:														
Beginning balance	22,816	54,598			11,341					73,350			162,105	115,155
Tons received during period	-	6,490			24,491					12,544			43,525	494,449
Inventory adjustments	(2,613)	-			(3,593)					-			(6,206)	(6,206)
Tons consumed during period	499	6,988			1,881					14,137			23,505	427,479
Ending balance	19,704	54,100			30,357					71,757			175,919	175,919
Cost of ending inventory (\$/ton)	51.45	40.04			42.07					38.03			40.85	40.85
Ammonia Data:														
Beginning balance		1,189											1,189	1,644
Tons received during period		843											843	3,499
Tons consumed during period		627											627	3,738
Ending balance		1,405											1,405	1,405
Cost of ending inventory (\$/ton)		517.74											517.74	517.74

Qtr Ending December 2019	Total 12 ME December 2019
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(A) Clemson CHP fuel and fuel related consumption represents precommercial activity.

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit and terminal activity.

Gas is burned as received; therefore, inventory balances are not maintained.

DUKE ENERGY CAROLINAS
ANALYSIS OF COAL PURCHASED
DECEMBER 2019

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ALLEN	SPOT	23,706	\$ 1,377,986	\$ 58.13
	CONTRACT	11,029	827,865	75.06
	FIXED TRANSPORTATION / ADJUSTMENTS	-	114,347	-
	TOTAL	<u>34,735</u>	<u>2,320,199</u>	<u>75.69</u>
BELEWS CREEK	SPOT	38,356	2,182,955	56.91
	CONTRACT	216,282	13,798,961	63.80
	FIXED TRANSPORTATION / ADJUSTMENTS	-	567,412	-
	TOTAL	<u>254,637</u>	<u>16,549,328</u>	<u>64.99</u>
CLIFFSIDE	SPOT	50,520	3,491,815	69.12
	CONTRACT	139,838	9,584,744	68.54
	FIXED TRANSPORTATION / ADJUSTMENTS	-	550,979	-
	TOTAL	<u>190,358</u>	<u>13,627,538</u>	<u>77.63</u>
MARSHALL	SPOT	89,954	5,627,671	62.56
	CONTRACT	193,810	13,360,215	68.93
	FIXED TRANSPORTATION / ADJUSTMENTS	-	1,023,130	-
	TOTAL	<u>283,764</u>	<u>20,011,016</u>	<u>65.23</u>
ALL PLANTS	SPOT	202,536	12,680,427	62.61
	CONTRACT	560,959	37,571,785	66.98
	FIXED TRANSPORTATION / ADJUSTMENTS	-	2,255,868	-
	TOTAL	<u>763,494</u>	<u>\$ 52,508,080</u>	<u>\$ 68.77</u>

DUKE ENERGY CAROLINAS
ANALYSIS OF COAL QUALITY RECEIVED
DECEMBER 2019

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ALLEN	6.58	12.60	12,118	0.88
BELEWS CREEK	7.02	10.00	12,471	1.64
CLIFFSIDE	10.18	9.40	12,021	1.91
MARSHALL	6.85	11.48	12,220	1.23

DUKE ENERGY CAROLINAS
ANALYSIS OF OIL PURCHASED
DECEMBER 2019

	ALLEN	BELEWS CREEK
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	0	0
GALLONS RECEIVED	22,210	284,927
TOTAL DELIVERED COST	\$ 45,499	\$ 583,901
DELIVERED COST/GALLON	\$ 2.05	\$ 2.05
BTU/GALLON	138,000	138,000
	CLIFFSIDE	MARSHALL
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	0	0
GALLONS RECEIVED	83,076	209,541
TOTAL DELIVERED COST	\$ 169,053	\$ 432,089
DELIVERED COST/GALLON	\$ 2.03	\$ 2.06
BTU/GALLON	138,000	138,000

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Proposed Nuclear Capacity Factor
Billing Period Sept 2020 through Aug 2021
Docket E-7, Sub 1228

McGee Workpaper 1

	Catawba 1	Catawba 2	McGuire 1	McGuire 2	Oconee 1	Oconee 2	Oconee 3	Total
MWhs	9,994,379	9,007,229	9,179,320	9,949,902	6,585,428	7,276,686	7,371,013	59,363,957
Cost (Gross of Joint Owners)	\$ 61,864,018	\$ 57,191,501	\$ 53,296,002	\$ 60,341,229	\$ 41,461,273	\$ 42,351,267	\$ 42,092,026	358,597,316
\$/MWh	6.1899	6.3495	5.8061	6.0645	6.2959	5.8201	5.7105	
Avg \$/MWh		6.0407						
Cents per kWh		0.6041						

**Sept 2020 -
August 2021**

MDC			
CATA_UN01	Catawba	MW	1,160.1
CATA_UN02	Catawba	MW	1,150.1
MCGU_UN01	McGuire	MW	1,158.0
MCGU_UN02	McGuire	MW	1,157.6
OCON_UN01	Oconee	MW	847.0
OCON_UN02	Oconee	MW	848.0
OCON_UN03	Oconee	MW	859.0
			<u>7,179.8</u>
Hours in month			8,760
Generation GWhs			
CATA_UN01	Catawba	GWh	9,994
CATA_UN02	Catawba	GWh	9,007
MCGU_UN01	McGuire	GWh	9,179
MCGU_UN02	McGuire	GWh	9,950
OCON_UN01	Oconee	GWh	6,585
OCON_UN02	Oconee	GWh	7,277
OCON_UN03	Oconee	GWh	7,371
			<u>59,364</u>
Proposed Nuclear Capacity Factor			94.39%

DUKE ENERGY CAROLINAS

North Carolina Annual Fuel and Fuel Related Expense

NERC 5 Year Average Nuclear Capacity Factor

Billing Period Sept 2020 through Aug 2021

Docket E-7, Sub 1228

	Catawba 1	Catawba 2	McGuire 1	McGuire 2	Oconee 1	Oconee 2	Oconee 3	Total
MWhs with NERC applied	9,281,389	9,201,384	9,264,588	9,261,388	6,833,562	6,841,630	6,930,378	57,614,320
Hours	8760	8760	8760	8760	8760	8760	8760	8760
MDC	1160.1	1150.1	1158.0	1157.6	847.0	848.0	859.0	7179.8
Capacity factor	91.33%	91.33%	91.33%	91.33%	92.10%	92.10%	92.10%	91.60%
Cost	\$ 56,065,691	\$ 55,582,408	\$ 55,964,202	\$ 55,944,871	\$ 41,279,206	\$ 41,327,942	\$ 41,864,036	\$ 348,028,357

Avg \$/MWh

6.0407

Cents per kWh

0.6041

2014-2018	Capacity Rating	NCF Rating	Weighted Average
Oconee 1	847.0	92.10	10.87%
Oconee 2	848.0	92.10	10.88%
Oconee 3	859.0	92.10	11.02%
McGuire 1	1158.0	91.33	14.73%
McGuire 2	1157.6	91.33	14.73%
Catawba 1	1160.1	91.33	14.76%
Catawba 2	1150.1	91.33	14.63%
	<u>7179.8</u>		91.60%

Wtd Avg on Capacity Rating

DUKE ENERGY CAROLINAS**McGee Workpaper 3****North Carolina Annual Fuel and Fuel Related Expense****North Carolina Generation and Purchased Power in MWhs****Billing Period Sept 2020 through Aug 2021****Docket E-7, Sub 1228**

Resource Type	Sept 2020 - August 2021	
NUC Total (Gross)	59,363,957	
COAL Total	14,450,043	
Gas CT and CC total (Gross)	25,505,409	
Run of River	4,305,885	
Net pumped Storage	(3,219,894)	
Total Hydro	1,085,991	
Catawba Joint Owners	(14,848,200)	
Lee CC Joint Owners	(876,000)	
DEC owned solar	385,094	
Total Generation		85,066,294
Purchases for REPS Compliance	1,178,490	
Qualifying Facility Purchases - Non-REPS compliance	1,457,406	
Other Purchases	55,260	
Allocated Economic Purchases	281,308	
Joint Dispatch Purchases	5,314,338	
	8,286,802	
Total Generation and Purchased Power		93,353,096
Fuel Recovered Through intersystem Sales	(1,024,819)	

DUKE ENERGY CAROLINAS

McGee Revised Workpaper 4

North Carolina Annual Fuel and Fuel Related Expense

Projected Fuel and Fuel Related Costs

Billing Period Sept 2020 through Aug 2021

Docket E-7, Sub 1228

Resource Type	Sept 2020 - August 2021	
Nuclear Total (Gross)	\$ 358,597,316	
COAL Total	394,529,148	
Gas CT and CC total (Gross)	583,236,234	
Catawba Joint Owner costs	(89,710,135)	
CC Joint Owner costs	(16,315,588)	
Non-Economic Fuel Expense Recovered through Reimbursement	(20,370,677)	
Reagents and gain/loss on sale of By-Products	21,603,715	Workpaper 9
Purchases for REPS Compliance - Energy	63,001,495	
Purchases for REPS Compliance Capacity	13,122,631	
Purchases of Qualifying Facilities - Energy	56,445,045	
Purchases of Qualifying Facilities - Capacity	12,285,396	
Other Purchases	1,628,569	
JDA Savings Shared	14,281,717	Workpaper 5
Allocated Economic Purchase cost	7,049,441	Workpaper 5
Joint Dispatch purchases	105,078,276	Workpaper 6
Total Purchases	<u>272,892,569</u>	
Fuel Expense recovered through intersystem sales	(21,248,787)	Workpaper 5
Total System Fuel and Fuel Related Costs	\$ 1,483,213,795	

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Projected Merger Payments
Billing Period Sept 2020 through Aug 2021
Docket E-7, Sub 1228

McGee Workpaper 6

	Transfer Projection		Purchase Allocation Delta		Adjusted Transfer		Fossil Gen Cost		Pre-Net Payments	
	PEctoDEC	DECtoPEC	PEC	DEC	PEctoDEC	DECtoPEC	PEC	DEC	PEctoDEC	DECtoPEC
9/1/2020	601,189	4,198	4,350	(4,350)	605,539	4,198	\$ 19.08	\$ 13.30	\$ 55,829	\$ 11,552,907
10/1/2020	653,593	3,556	7,218	(7,218)	660,811	3,556	\$ 18.56	\$ 13.50	\$ 47,994	\$ 12,264,989
11/1/2020	530,630	18,110	2,987	(2,987)	533,617	18,110	\$ 18.88	\$ 11.80	\$ 213,758	\$ 10,073,345
12/1/2020	400,257	109,359	(5,683)	5,683	400,257	115,042	\$ 21.51	\$ 14.30	\$ 1,644,589	\$ 8,609,199
1/1/2021	166,669	137,750	(8,797)	8,797	166,669	146,548	\$ 22.43	\$ 14.10	\$ 2,066,735	\$ 3,737,995
2/1/2021	154,232	132,870	(8,082)	8,082	154,232	140,952	\$ 22.08	\$ 13.67	\$ 1,926,765	\$ 3,405,690
3/1/2021	311,996	93,958	(2,597)	2,597	311,996	96,555	\$ 18.94	\$ 12.85	\$ 1,240,748	\$ 5,910,454
4/1/2021	557,710	41,790	(4,430)	4,430	557,710	46,219	\$ 17.89	\$ 16.43	\$ 759,226	\$ 9,978,878
5/1/2021	304,500	124,561	(7,146)	7,146	304,500	131,707	\$ 17.27	\$ 15.11	\$ 1,989,875	\$ 5,259,237
6/1/2021	442,810	81,622	3,624	(3,624)	446,434	81,622	\$ 19.72	\$ 15.21	\$ 1,241,824	\$ 8,805,608
7/1/2021	576,231	29,031	13,298	(13,298)	589,529	29,031	\$ 22.01	\$ 16.18	\$ 469,663	\$ 12,975,505
8/1/2021	549,883	17,473	33,160	(33,160)	583,043	17,473	\$ 21.45	\$ 15.90	\$ 277,841	\$ 12,504,469
Sept 20 - Aug 21	5,249,701	794,279	27,902	(27,902)	5,314,338	831,014			\$ 11,934,848	\$ 105,078,276
									Net Pre-Net Payments	\$ 93,143,428

rounding differences may occur

DUKE ENERGY CAROLINAS
 North Carolina Annual Fuel and Fuel Related Expense
 Projected and Adjusted Projected Sales and Costs
 Proposed Nuclear Capacity Factor of 94.39%
 Billing Period Sept 2020 through Aug 2021
 Docket E-7, Sub 1228

McGee Revised Workpaper 7

Fall 2019 Forecast
 Billed Sales Forecast
 Sales Forecast - MWhs (000)

		Projected sales for the Billing Period	Remove impact of SC DERP Net Metered generation	Adjusted Sales
North Carolina:				
Residential		22,067,951		22,067,951
General		23,677,896		23,677,896
Industrial		12,441,023		12,441,023
Lighting		273,219		273,219
NC RETAIL		58,460,089	-	58,460,089
South Carolina:				
Residential		6,628,994	90,021	6,719,015
General		5,939,271	71,593	6,010,863
Industrial		9,134,820	514	9,135,334
Lighting		45,590	-	45,590
SC RETAIL		21,748,675	162,127	21,910,802
Total Retail Sales				
Residential		28,696,946	90,021	28,786,966
General		29,617,166	71,593	29,688,759
Industrial		21,575,843	514	21,576,357
Lighting		318,809	-	318,809
Retail Sales		80,208,764	162,127	80,370,891
Wholesale		8,174,475	-	8,174,475
Projected System MWH Sales for Fuel Factor		88,383,239	162,127	88,545,366
NC as a percentage of total		66.14%		66.02%
SC as a percentage of total		24.61%		24.75%
Wholesale as a percentage of total		9.25%		9.23%
		100.00%		100.00%
SC Net Metering allocation adjustment				
Total projected SC NEM MWhs			162,127	
Marginal fuel rate per MWh for SC NEM		\$	32.53	
Fuel benefit to be directly assigned to SC Retail		\$	5,273,991	

System Fuel Expense	\$ 1,483,213,795	McGee Exhibit 2 Schdule 1 Page 1 of 3
Fuel benefit to be directly assigned to SC Retail	\$ 5,273,991	
Total Fuel Costs for Allocation	\$ 1,488,487,786	McGee Exhibit 2 Schdule 1 Page 3 of 3, L5

Reconciliation	Allocation to states/classes			
	System	NC Retail Customers	Wholesale	South Carolina Retail
Total system fuel expense from McGee Exhibit 2 Schedule 1 Page 1	\$ 1,483,213,795			
QF and REPS Compliance Purchased Power - Capacity	\$ 25,408,027			
Other fuel costs	\$ 1,457,805,768			
SC Net Metering Fuel Allocation adjustment	\$ 5,273,991			
Jurisdictional fuel costs after adj. Exh2,Sch1,p3,L7	\$ 1,463,079,759			
Allocation to states/classes		66.02%	9.23%	24.75%
Jurisdictional fuel costs	\$ 1,463,079,759	\$ 965,925,257	\$ 135,042,262	\$ 362,112,240
Direct Assignment of Fuel benefit to SC Retail	\$ (5,273,991)		\$ -	\$ (5,273,991)
Total system actual fuel costs	\$ 1,457,805,768	\$ 965,925,257	\$ 135,042,262	\$ 356,838,249
QF and REPS Compliance Purchased Power - Capacity	25,408,027	17,162,430		
Total system fuel expense from McGee Exhibit 2 Schedule 1 Page 1	\$ 1,483,213,795	\$ 983,087,687		

67.55% Capacity Allocator

Exh.2, Sch. 1 page 3, Line 13

DUKE ENERGY CAROLINAS
 North Carolina Annual Fuel and Fuel Related Expense
 Projected and Adjusted Projected Sales and Costs
 Proposed Nuclear Capacity Factor of 94.39% and Normalized Test Period Sales
 Billing Period Sept 2020 through Aug 2021
 Docket E-7, Sub 1228

McGee Revised Workpaper 7a

Fall 2019 Forecast
 Billed Sales Forecast - Normalized Test Period Sales
 Sales Forecast - MWhs (000)

		Customer Growth		Remove impact of SC	Normalized Test	
	Test Period Sales	Adjustment	Weather Adjustment	DERP Net Metered generation	Period Sales	
North Carolina:						
	NC RETAIL	58,642,521	296,714	(316,696)	-	58,622,539
South Carolina:						
	SC RETAIL	21,466,517	86,091	4,841	162,127	21,719,576
	Wholesale	7,802,295	72,243	76,245	-	7,950,783
	Normalized System MWH Sales for Fuel Factor	87,911,333	455,048	(235,610)	162,127	88,292,898
	NC as a percentage of total	66.71%				66.40%
	SC as a percentage of total	24.42%				24.60%
	Wholesale as a percentage of total	8.88%				9.01%
		<u>100.00%</u>				<u>100.01%</u>

SC Net Metering allocation adjustment

Total projected SC NEM MWhs	162,127
Marginal fuel rate per MWh for SC NEM	\$ 32.53
Fuel benefit to be directly assigned to SC Retail	\$ 5,273,991

System Fuel Expense	\$ 1,476,320,673	McGee Exhibit 2 Schedule 2 Page 1 of 3
Fuel benefit to be directly assigned to SC Retail	\$ 5,273,991	
Total Fuel Costs for Allocation	\$ 1,481,594,665	McGee Exhibit 2 Schedule 2 Page 3 of 3, L5

Reconciliation

	System	NC Retail Customers	Wholesale	South Carolina Retail
Total system fuel expense from McGee Exhibit 2 Schedule 2 Page 1	\$ 1,476,320,673			
QF and REPS Compliance Purchased Power - Capacity	\$ 25,408,027			
Other fuel costs	\$ 1,450,912,646			
SC Net Metering Fuel Allocation adjustment	\$ 5,273,991			
Jurisdictional fuel costs after adj. Exh2,Sch2,p3,L7	\$ 1,456,186,638			
Allocation to states/classes		66.40%	9.01%	24.60%
Jurisdictional fuel costs	\$ 1,456,186,638	\$ 966,907,927	\$ 131,202,416	\$ 358,221,913
Direct Assignment of Fuel benefit to SC Retail	\$ (5,273,991)		\$ -	\$ (5,273,991)
Total system actual fuel costs	\$ 1,450,912,646	\$ 966,907,927	\$ 131,202,416	\$ 352,947,922
QF and REPS Compliance Purchased Power - Capacity	25,408,027	17,162,430		
Total system fuel expense from McGee Exhibit 2 Schedule 2 Page 1	\$ 1,476,320,673	\$ 984,070,357		

Exh. 2, Sch 2 page 3, Line 13

DUKE ENERGY CAROLINAS
 North Carolina Annual Fuel and Fuel Related Expense
 Projected and Adjusted Projected Sales and Costs
 NERC 5 Year Average Nuclear Capacity Factor of 91.60%
 Billing Period Sept 2020 through Aug 2021
 Docket E-7, Sub 1228

McGee Revised Workpaper 7b

Fall 2019 Forecast
 Billed Sales Forecast
 Sales Forecast - MWhs (000)

	Projected sales for the Billing Period	Remove impact of SC DERP Net Metered generation	Adjusted Sales
North Carolina:			
Residential	22,067,951		22,067,951
General	23,677,896		23,677,896
Industrial	12,441,023		12,441,023
Lighting	273,219		273,219
NC RETAIL	58,460,089	-	58,460,089
South Carolina:			
Residential	6,628,994	90,021	6,719,015
General	5,939,271	71,593	6,010,863
Industrial	9,134,820	514	9,135,334
Lighting	45,590	0	45,590
SC RETAIL	21,748,675	162,127	21,910,802
Total Retail Sales			
Residential	28,696,946	90,021	28,786,966
General	29,617,166	71,593	29,688,759
Industrial	21,575,843	514	21,576,357
Lighting	318,809	-	318,809
Retail Sales	80,208,764	162,127	80,370,891
Wholesale	8,174,475	-	8,174,475
Projected System MWh Sales for Fuel Factor	88,383,239	162,127	88,545,366
NC as a percentage of total	66.14%		66.02%
SC as a percentage of total	24.61%		24.75%
Wholesale as a percentage of total	9.25%		9.23%
	100.00%		100.00%

SC Net Metering allocation adjustment

Total projected SC NEM MWhs	162,127
Marginal fuel rate per MWh for SC NEM	\$ 32.53
Fuel benefit to be directly assigned to SC Retail	\$ 5,273,998

System Fuel Expense	\$ 1,511,110,802	McGee Exhibit 2 Schedule 3 Page 1 of 3
Fuel benefit to be directly assigned to SC Retail	\$ 5,273,998	
Total Fuel Costs for Allocation	\$ 1,516,384,800	McGee Exhibit 2 Schedule 3 Page 3 of 3, Line 5

Reconciliation

	System	NC Retail Customers	Wholesale	South Carolina Retail
Total system fuel expense from McGee Exhibit 2 Schedule 3 Page 1	\$ 1,511,110,802			
QF and REPS Compliance Purchased Power - Capacity	\$ 25,408,027			
Other fuel costs	\$ 1,485,702,775			
SC Net Metering Fuel Allocation adjustment	\$ 5,273,998			
Jurisdictional fuel costs after adj.	Exh2,Sch3,p3,L7 \$ 1,490,976,773			
Allocation to states/classes		66.02%	9.23%	24.75%
Jurisdictional fuel costs	\$ 1,490,976,773	\$ 984,342,865	\$ 137,617,156	\$ 369,016,751
Direct Assignment of Fuel benefit to SC Retail	\$ (5,273,998)	\$ -	\$ -	\$ (5,273,998)
Total system actual fuel costs	\$ 1,485,702,775	\$ 984,342,865	\$ 137,617,156	\$ 363,742,754
QF and REPS Compliance Purchased Power - Capacity	25,408,027	17,162,430		
Total system fuel expense from McGee Exhibit 2 Schedule 3 Page 1	\$ 1,511,110,802	\$ 1,001,505,295		

Exh. 2, Sch.3 page 3, Line 13

DUKE ENERGY CAROLINAS
 North Carolina Annual Fuel and Fuel Related Expense
 Annualized Revenue
 Billing Period Sept 2020 through Aug 2021
 Docket E-7, Sub 1228

McGee Workpaper 8

	January 2020 Actuals			Normalized Sales	Total Annualized Revenues
	Revenue	KWH Sales	Cents/ kwh	McGee EX 4	
	(a)	(b)	(a) / (b) *100 = (c)	(d)	(c) * (d) * 10
Residential	\$ 205,510,334.69	2,021,126,178	10.1681	22,444,481	\$ 2,282,179,536
General	\$ 144,495,008.55	1,919,161,419	7.5291	23,688,550	\$ 1,783,527,535
Industrial	\$ 48,720,309.60	858,762,556	5.6733	12,489,508	\$ 708,569,199
Total	\$ 398,725,652.84	4,799,050,153		58,622,539	\$ 4,774,276,270

Reagent and ByProduct projections

Date	Ammonia	Urea	Limestone	Magnesium hydroxide	Calcium Carbonate	Lime-Water Emissions	Reagent Cost	(Gain)/Loss on sale of By-Products			Sale of By-Products (Gain)/Loss
								Gypsum (Gain)/Loss	Ash (Gain)/Loss	Steam (Gain)/Loss	
9/1/2020	\$ 233,500	\$ 40,858	\$ 1,291,541	\$ 173,825	\$ 89,742	\$ 59,960	\$ 1,889,426	\$ 358,811	\$ (33,145)	\$ (157,337)	\$ 168,329
10/1/2020	\$ 188,501	\$ 32,984	\$ 1,042,637	\$ 71,908	\$ 42,872	\$ 59,960	\$ 1,438,861	\$ 290,184	\$ (13,557)	\$ (157,294)	\$ 119,332
11/1/2020	\$ 198,004	\$ 34,647	\$ 1,095,204	\$ 137,550	\$ 71,592	\$ 59,960	\$ 1,596,957	\$ 355,932	\$ (73,420)	\$ (157,256)	\$ 125,255
12/1/2020	\$ 261,216	\$ 45,708	\$ 1,444,841	\$ 228,479	\$ 110,121	\$ 59,960	\$ 2,150,324	\$ 509,662	\$ (174,818)	\$ (157,235)	\$ 177,610
1/1/2021	\$ 419,456	\$ 73,397	\$ 2,320,102	\$ 333,985	\$ 162,393	\$ 59,960	\$ 3,369,293	\$ 761,396	\$ (243,098)	\$ (157,272)	\$ 361,026
2/1/2021	\$ 410,928	\$ 71,904	\$ 2,272,930	\$ 333,052	\$ 162,346	\$ 59,960	\$ 3,311,120	\$ 726,826	\$ (224,855)	\$ (157,342)	\$ 344,628
3/1/2021	\$ 211,172	\$ 36,951	\$ 1,168,035	\$ 232,231	\$ 105,236	\$ 59,960	\$ 1,813,585	\$ 444,465	\$ (184,558)	\$ (157,488)	\$ 102,420
4/1/2021	\$ 49,963	\$ 8,743	\$ 276,356	\$ 210,962	\$ 99,191	\$ 59,960	\$ 705,175	\$ 85,702	\$ (24,859)	\$ (157,692)	\$ (96,849)
5/1/2021	\$ 36,003	\$ 6,300	\$ 199,141	\$ 188,716	\$ 90,692	\$ 59,960	\$ 580,811	\$ 51,459	\$ (9,663)	\$ (157,977)	\$ (116,181)
6/1/2021	\$ 63,789	\$ 11,162	\$ 352,832	\$ 282,721	\$ 137,281	\$ 59,960	\$ 907,746	\$ 104,580	\$ (30,245)	\$ (158,327)	\$ (83,991)
7/1/2021	\$ 123,135	\$ 21,546	\$ 681,086	\$ 340,068	\$ 167,985	\$ 59,960	\$ 1,393,781	\$ 208,096	\$ (57,134)	\$ (154,664)	\$ (3,702)
8/1/2021	\$ 120,576	\$ 21,098	\$ 666,931	\$ 324,557	\$ 162,092	\$ 59,960	\$ 1,355,215	\$ 205,966	\$ (57,385)	\$ (155,036)	\$ (6,455)
	\$ 2,316,243	\$ 405,298	\$ 12,811,635	\$ 2,858,054	\$ 1,401,545	\$ 719,520	\$ 20,512,295	\$ 4,103,079	\$ (1,126,738)	\$ (1,884,921)	\$ 1,091,421

Total Reagent cost and Sale of By-products \$ 21,603,715

rounding differences may occur

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
2.5% calculation test
Twelve Months Ended December 31, 2019
Billing Period Sept 2020 through Aug 2021
Docket E-7, Sub 1228

McGee Workpaper 10

Line No.	Description	Forecast \$	(over)/under Collection \$	Total \$
1	Amount in current docket	101,750,258	1,617,020	103,367,278
2	Amount in Sub 1190, prior year docket	107,380,554	72,488,427	179,868,981
3	Increase/(Decrease)	(5,630,296)	(70,871,406)	(76,501,702)
4	2.5% of 2019 NC retail revenue of \$4,869,968,814			121,749,220
	Excess of purchased power growth over 2.5% of Revenue			0
E-7 Sub 1228				
WP 4	Purchases for REPS Compliance - Energy	63,001,495	66.02%	41,593,587
WP 4	Purchases for REPS Compliance Capacity	13,122,631	67.55%	8,863,980
WP 4	Purchases	1,628,569	66.02%	1,075,181
WP 4	QF Energy	56,445,045	66.02%	37,265,019
WP 4	QF Capacity	12,285,396	67.55%	8,298,450
WP 4	Allocated Economic Purchase cost	7,049,441	66.02%	4,654,041
		153,532,577		101,750,258
E-7 Sub 1190				
	Purchases for REPS Compliance	63,867,566	66.16%	42,254,782
	Purchases for REPS Compliance Capacity	13,295,654	67.04%	8,912,938
	Purchases	2,029,948	66.16%	1,343,014
	QF Energy	58,754,197	66.16%	38,871,777
	QF Capacity	14,874,084	67.04%	9,971,063
	Allocated Economic Purchase cost	9,109,705	66.16%	6,026,981
		161,931,154		107,380,554

	2019												12 ME
	Jan19	Feb19	Mar19	Apr19	May19	June 19	Jul19	Aug19	Sep19	Oct19	Nov19	Dec19	
System KWH Sales - Sch 4, Adjusted	7,570,888,821	7,430,788,664	6,521,808,145	6,367,436,322	6,726,545,218	7,552,455,357	8,316,260,504	8,548,800,472	8,292,133,918	7,019,132,212	6,533,297,016	7,161,497,356	88,041,044,005
NC Retail KWH Sales - Sch 4	5,021,049,922	5,026,972,376	4,366,363,694	4,263,829,687	4,421,389,704	5,029,188,554	5,524,188,997	5,710,820,956	5,512,226,874	4,692,561,973	4,299,808,753	4,774,119,609	58,642,521,099
NC Retail % of Sales, Adjusted (Calc)	66.32%	67.65%	66.95%	66.96%	65.73%	66.59%	66.43%	66.80%	66.48%	66.85%	65.81%	66.66%	66.61%
NC retail production plant %	67.56%	67.56%	67.56%	67.56%	67.75%	67.75%	67.75%	67.75%	67.75%	67.75%	67.75%	67.75%	67.72%
Fuel and Fuel related component of purchased power													
System Actual \$ - Sch 3 Fuel\$:	\$ 23,687,311	\$ 57,492,154	\$ 14,514,026	\$ 14,125,368	\$ 6,227,781	\$ 7,986,019	\$ 9,392,534	\$ 7,209,102	\$ 18,620,321	\$ 13,793,051	\$ 15,085,734	\$ 17,891,442	\$ 206,024,843
System Actual \$ - Sch 3 Fuel-related\$; Economic Purchases	10,050,079	26,532,896	2,706,430	4,264,779	908,542	640,701	1,230,088	1,129,642	1,974,692	1,539,252	2,340,043	2,634,380	\$ 55,951,524
System Actual \$ - Sch 3 Fuel-related\$; Purchased Power for REPS Compliance	3,283,437	4,116,642	3,779,240	5,137,202	5,251,425	5,598,653	5,193,633	5,586,738	5,216,879	4,899,454	4,069,122	3,963,969	\$ 56,096,394
System Actual\$ - Sch 3 Fuel-related\$; SC DERP	102	14,377	8,659	21,097	25,363	30,158	22,270	26,481	26,351	26,014	17,072	15,590	\$ 233,534
System Actual \$ - Sch 3 Fuel-related\$; HB589 purpa Purchases	1,367,422	1,711,969	1,557,910	2,135,075	2,259,422	2,837,912	2,660,982	2,749,375	2,583,768	2,605,902	2,204,650	2,090,407	\$ 26,764,794
Total System Economic & QF\$	38,388,351	89,868,038	22,566,265	25,683,521	14,672,533	17,093,443	18,499,507	16,701,338	28,422,011	22,863,673	23,716,621	26,595,788	345,071,089
Less:													
Native Load Transfers, Native Load Transfer Benefit & DE - Progress fees	\$ 11,884,171	\$ 71,766,352	\$ 8,909,559	\$ 10,043,093	\$ 3,969,493	\$ 6,657,925	\$ 7,676,184	\$ 5,446,589	\$ 17,997,075	\$ 13,185,756	\$ 12,864,226	\$ 15,502,723	\$ 185,903,146
Total System Economic \$ without Native Load Transfers	\$ 26,504,180	\$ 18,101,686	\$ 13,656,706	\$ 15,640,428	\$ 10,703,040	\$ 10,435,518	\$ 10,823,323	\$ 11,254,749	\$ 10,424,936	\$ 9,677,917	\$ 10,852,395	\$ 11,093,065	\$ 159,167,943
NC Actual \$ (Calc)	\$ 17,577,699	\$ 12,245,897	\$ 9,143,192	\$ 10,473,308	\$ 7,035,158	\$ 6,949,023	\$ 7,189,539	\$ 7,518,465	\$ 6,930,015	\$ 6,470,063	\$ 7,142,370	\$ 7,395,049	\$ 106,069,779
Billed rate (¢/kWh):	0.1922	0.1922	0.1922	0.1922	0.1922	0.1922	0.1922	0.1922	0.1759	0.1535	0.1533	0.1533	
Billed \$:	\$ 9,650,458	\$ 9,661,841	\$ 8,392,151	\$ 8,195,081	\$ 8,497,911	\$ 9,666,100	\$ 10,617,491	\$ 10,976,198	\$ 9,696,007	\$ 7,203,083	\$ 6,591,607	\$ 7,318,725	\$ 106,466,653
(Over)/ Under \$:	\$ 7,927,242	\$ 2,584,056	\$ 751,041	\$ 2,278,227	\$ (1,462,753)	\$ (2,717,077)	\$ (3,427,952)	\$ (3,457,733)	\$ (2,765,992)	\$ (733,020)	\$ 550,763	\$ 76,323	\$ (396,874)
Capacity component of purchased power													
System Actual \$ - Capacity component of Cherokee County Cogen Purchases	\$ 426,732	\$ 426,732	\$ 213,366	\$ 213,366	\$ 320,050	\$ 1,386,879	\$ 3,200,490	\$ 3,200,490	\$ 640,098	\$ 213,366	\$ 213,366	\$ 213,366	\$ 10,668,301
System Actual \$ - Capacity component of Purchased Power for REPS Compliance	608,844	738,655	747,764	827,415	781,129	817,587	2,308,343	2,605,889	2,449,375	2,179,103	611,944	591,922	\$ 15,267,970
System Actual \$ - Capacity component of HB589 Purpa QF purchases	240,541	314,914	229,175	301,405	216,488	298,037	1,151,852	1,312,758	1,272,900	1,184,456	259,220	187,603	\$ 6,969,349
System Actual \$ - Capacity component of SC DERP	32	4,343	4,209	5,850	3,530	4,199	3,177	3,738	3,716	3,670	2,375	2,168	\$ 41,006
System Actual \$ - Sch 2 pg 1 ANNUAL VIEW	\$ 1,276,149	\$ 1,484,644	\$ 1,194,514	\$ 1,348,036	\$ 1,321,197	\$ 2,506,702	\$ 6,663,862	\$ 7,122,875	\$ 4,366,089	\$ 3,580,594	\$ 1,086,905	\$ 995,058	\$ 32,946,626
NC Actual \$ (Calc) (1)	\$ 862,169	\$ 1,003,029	\$ 807,016	\$ 910,736	\$ 895,069	\$ 1,698,211	\$ 4,514,555	\$ 4,825,522	\$ 2,957,887	\$ 2,425,739	\$ 736,343	\$ 674,120	\$ 22,310,397
Billed rate (¢/kWh):	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0342	0.0327	0.0327	0.0327	
Billed \$:	\$ 1,773,631	\$ 1,775,723	\$ 1,542,370	\$ 1,506,151	\$ 1,561,807	\$ 1,776,506	\$ 1,951,359	\$ 2,017,285	\$ 1,886,955	\$ 1,535,934	\$ 1,406,799	\$ 1,561,982	\$ 20,296,502
(Over)/Under \$:	\$ (911,461)	\$ (772,694)	\$ (735,354)	\$ (595,415)	\$ (666,739)	\$ (78,295)	\$ 2,563,196	\$ 2,808,237	\$ 1,070,932	\$ 889,805	\$ (670,455)	\$ (887,863)	\$ 2,013,895
TOTAL (Over)/ Under \$:	\$ 7,015,780	\$ 1,811,363	\$ 15,688	\$ 1,682,813	\$ (2,129,491)	\$ (2,795,372)	\$ (864,756)	\$ (649,496)	\$ (1,695,060)	\$ 156,785	\$ (119,692)	\$ (811,539)	\$ 1,617,020

Note: The billed rate for September and October are pro-rated based on number of billing days in cycle on new rate schedules.

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
2.5% calculation test
Twelve Months Ended December 31, 2018
Docket E-7, Sub 1228

	2018												12 ME
	Jan18	Feb18	Mar18	Apr18	May18	June 18	Jul18	Aug18	Sep18	Oct18	Nov18	Dec18	
System KWH Sales - Sch 4, Adjusted	8,703,429,931	7,459,691,118	6,449,998,012	6,590,329,093	6,591,233,338	8,009,317,385	8,486,873,480	8,267,869,991	9,507,963,860	6,345,056,567	6,681,164,890	7,500,839,324	90,593,766,989
NC Retail KWH Sales - Sch 4	5,733,819,698	5,031,181,342	4,190,094,169	4,416,566,036	4,252,750,024	5,245,688,511	5,639,360,853	5,409,821,248	6,212,763,717	4,141,211,581	4,314,713,247	4,892,732,160	59,480,702,586
NC Retail % of Sales, Adjusted (Calc)	65.88%	67.44%	64.96%	67.02%	64.52%	65.49%	66.45%	65.43%	65.34%	65.27%	64.58%	65.23%	65.66%
NC retail production plant %	67.56%	67.56%	67.56%	67.56%	67.56%	67.56%	67.56%	67.56%	67.56%	67.56%	67.56%	67.56%	67.56%
Fuel and Fuel related component of purchased power													
System Actual \$ - Sch 3 Fuel\$:	\$ 54,851,829	\$ 19,768,561	\$ 11,751,953	\$ 8,971,622	\$ 7,588,225	\$ 7,853,735	\$ 25,151,873	\$ 24,971,461	\$ 21,908,434	\$ 27,821,901	\$ 26,826,328	\$ 40,057,563	\$ 277,523,485
System Actual \$ - Sch 3 Fuel-related\$; Economic Purchases	18,300,781	2,407,886	1,331,655	1,356,382	1,684,418	1,881,586	2,920,154	3,759,304	6,703,809	4,827,502	6,105,374	13,849,586	65,128,437
System Actual \$ - Sch 3 Fuel-related\$; Purchased Power for REPS Compliance	3,057,332	3,239,022	2,726,561	3,894,992	4,543,762	4,545,750	4,893,476	4,813,048	4,818,507	3,635,758	4,331,202	3,811,118	48,310,528
System Actual\$ - Sch 3 Fuel-related\$; SC DERP	122	125	134	163	218	223	232	223	213	203	157	136	2,149
System Actual \$ - Sch 3 Fuel-related\$; HB589 purpa Purchases	1,692,902	2,049,413	2,053,505	2,531,173	2,424,811	2,829,385	2,716,750	2,487,659	2,471,326	2,042,872	2,089,973	1,712,356	27,102,125
Total System Economic & QF\$	77,902,966	27,465,007	17,863,808	16,754,332	16,241,434	17,110,679	35,682,485	36,031,695	35,902,289	38,328,236	39,353,034	59,430,759	418,066,724
Less:													
Native Load Transfers, Native Load Transfer Benefit & DE - Progress fees	\$ 30,897,067	\$ 15,346,230	\$ 7,372,650	\$ 7,540,311	\$ 5,735,851	\$ 6,332,102	\$ 23,572,626	\$ 21,641,030	\$ 15,422,513	\$ 23,414,464	\$ 20,577,089	\$ 28,953,467	\$ 206,805,400
Total System Economic \$ without Native Load Transfers	\$ 47,005,899	\$ 12,118,777	\$ 10,491,158	\$ 9,214,021	\$ 10,505,583	\$ 10,778,577	\$ 12,109,859	\$ 14,390,665	\$ 20,479,776	\$ 14,913,772	\$ 18,775,945	\$ 30,477,292	\$ 211,261,324
NC Actual \$ (Calc)	\$ 30,967,487	\$ 8,173,497	\$ 6,815,342	\$ 6,174,856	\$ 6,778,340	\$ 7,059,410	\$ 8,046,764	\$ 9,416,080	\$ 13,382,046	\$ 9,733,733	\$ 12,125,553	\$ 19,880,072	\$ 138,553,178
Billed rate (¢/kWh):	0.0868	0.0868	0.0868	0.0868	0.0868	0.0868	0.0868	0.0868	0.1631	0.1921	0.1922	0.1922	
Billed \$:	\$ 4,979,550	\$ 4,369,342	\$ 3,638,897	\$ 3,835,577	\$ 3,693,311	\$ 4,555,631	\$ 4,897,517	\$ 4,698,172	\$ 10,132,031	\$ 7,954,367	\$ 8,291,468	\$ 9,402,231	\$ 70,448,093
(Over)/ Under \$:	\$ 25,987,937	\$ 3,804,155	\$ 3,176,444	\$ 2,339,278	\$ 3,085,029	\$ 2,503,779	\$ 3,149,247	\$ 4,717,908	\$ 3,250,015	\$ 1,779,366	\$ 3,834,085	\$ 10,477,841	\$ 68,105,086
Capacity component of purchased power													
System Actual \$ - Capacity component of Cherokee County Cogen Purchases	\$ 422,948	\$ 422,948	\$ 211,474	\$ 211,474	\$ 317,211	\$ 1,374,581	\$ 3,172,110	\$ 3,116,270	\$ 630,852	\$ 211,474	\$ 211,474	\$ 211,474	\$ 10,514,290
System Actual \$ - Capacity component of Purchased Power for REPS Compliance	486,469	465,590	421,064	517,448	539,749	567,326	2,279,476	2,238,065	2,451,979	1,649,703	659,013	594,902	12,870,784
System Actual \$ - Capacity component of HB589 Purpa QF purchases	316,410	362,951	415,622	397,922	232,512	271,686	1,225,424	1,199,461	1,251,154	924,601	242,932	159,399	7,000,074
System Actual \$ - Capacity component of SC DERP	57	37	64	28	13	21	78	84	72	79	19	13	565
System Actual \$ - Sch 2 pg 1 ANNUAL VIEW	\$ 1,225,884	\$ 1,251,526	\$ 1,048,224	\$ 1,126,872	\$ 1,089,485	\$ 2,213,614	\$ 6,677,088	\$ 6,553,880	\$ 4,334,057	\$ 2,785,857	\$ 1,113,438	\$ 965,788	\$ 30,385,713
NC Actual \$ (Calc) (1)	\$ 828,210	\$ 845,534	\$ 708,183	\$ 761,317	\$ 736,059	\$ 1,495,523	\$ 4,511,056	\$ 4,427,817	\$ 2,928,099	\$ 1,882,131	\$ 752,241	\$ 652,488	\$ 20,528,657
Billed rate (¢/kWh):	0.0241	0.0241	0.0241	0.0241	0.0241	0.0241	0.0241	0.0241	0.0289	0.0353	0.0353	0.0353	
Billed \$:	\$ 1,383,962	\$ 1,214,368	\$ 1,011,356	\$ 1,066,019	\$ 1,026,479	\$ 1,266,143	\$ 1,361,163	\$ 1,305,759	\$ 1,795,614	\$ 1,462,023	\$ 1,524,125	\$ 1,728,304	\$ 16,145,316
(Over)/Under \$:	\$ (555,752)	\$ (368,834)	\$ (303,173)	\$ (304,702)	\$ (290,420)	\$ 229,380	\$ 3,149,893	\$ 3,122,057	\$ 1,132,485	\$ 420,108	\$ (771,884)	\$ (1,075,816)	\$ 4,383,341
TOTAL (Over)/ Under \$:	\$ 25,432,185	\$ 3,435,322	\$ 2,873,271	\$ 2,034,577	\$ 2,794,608	\$ 2,733,159	\$ 6,299,140	\$ 7,839,965	\$ 4,382,500	\$ 2,199,474	\$ 3,062,201	\$ 9,402,025	\$ 72,488,427

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Actual Sales by Jurisdiction - Subject to Weather
Twelve Months Ended December 31, 2019
Docket E-7, Sub 1228
MWhs

McGee Workpaper 11

Line #	Description	Reference	NORTH CAROLINA	SOUTH CAROLINA	Retail TOTAL COMPANY	% NC	% SC
1	Residential	Company Records	22,091,823	6,769,118	28,860,942	76.55	23.45
2	Total General Service	Company Records	24,259,901	5,688,279	29,948,180		
3	less Lighting and Traffic Signals		272,655	47,509	320,164		
4	General Service subject to weather		23,987,245	5,640,770	29,628,016	80.96	19.04
5	Industrial	Company Records	12,290,797	9,009,119	21,299,916	57.70	42.30
6	Total Retail Sales	1+2+5	58,642,521	21,466,517	80,109,038		
7	Total Retail Sales subject to weather	1+4+5	58,369,866	21,419,008	79,788,874	73.16	26.84

This does not exclude Greenwood and includes the impact of SC DERP net metering generation

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Weather Normalization Adjustment
Twelve Months Ended December 31, 2019
Docket E-7, Sub 1228

Line #	Description	REFERENCE	Total Company MWh	NC RETAIL		SC RETAIL	
				% To Total	MWh	% To Total	MWh
	<u>Residential</u>						
1	Total Residential		219,018	76.55	167,658	23.45	51,360
	<u>General Service</u>						
2	Total General Service		(765,439)	80.96	(619,699)	19.04	(145,740)
	<u>Industrial</u>						
3	Total Industrial		234,566	57.70	135,345	42.30	99,221
4	Total Retail	L1+ L2+ L3	(311,855)		(316,696)		4,841
5	Wholesale		76,245				
6	Total Company	L4 + L5	<u>(235,610)</u>		<u>(316,696)</u>		<u>4,841</u>

DUKE ENERGY CAROLINAS
 North Carolina Annual Fuel and Fuel Related Expense
 Weather Normalization Adjustment by Class by Month
 Twelve Months Ended December 31, 2019
 Docket E-7, Sub 1228

	Residential	Commercial	Industrial	
	TOTAL MWH	TOTAL MWH	TOTAL MWH	
2019	ADJUSTMENT	ADJUSTMENT	ADJUSTMENT	
JAN	403,189	21,753	106,910	
FEB	133,613	(93,968)	7,903	
MAR	317,291	-	84,782	
APR	(15,943)	(3,954)	34,885	
MAY	(122,691)	(142,134)	(66,793)	
JUN	(96,008)	(206,667)	51,708	
JUL	(78,685)	(39,023)	(12,174)	
AUG	(83,867)	(44,228)	(21,152)	
SEP	(108,844)	(66,903)	(30,443)	
OCT	(294,829)	(193,846)	53,194	
NOV	71,113	16,545	25,747	
DEC	94,681	(13,014)	-	
Total	219,018	(765,439)	234,566	(311,855)

Wholesale

2019	TOTAL MWH ADJUSTMENT	Note:	The Resale customers include:
JAN	(38,538)	1	Dallas
FEB	41,582	2	Forest City
MAR	(15,191)	3	Due West
APR	5,372	4	Prosperity
MAY	(30,683)	5	Lockhart
JUN	(10,771)	6	Western Carolina University
JUL	(3,961)	7	City of Highlands
AUG	(2,012)	8	Haywood
SEP	(55,637)	9	Piedmont
OCT	16,676	10	Rutherford
NOV	95,238	11	Blue Ridge
DEC	74,172	12	
Total	76,245	13	
		14	

DUKE ENERGY CAROLINAS
North Carolina Annual Fuel and Fuel Related Expense
Customer Growth Adjustment to kWh Sales
Twelve Months Ended December 31, 2019
Docket E-7, Sub 1228

Line	Estimation Method ¹	Rate Schedule	NC	SC	Wholesale	Total Company
			Proposed KWH ¹	Proposed KWH	Proposed KWH	
			Adjustment	Adjustment	Adjustment	
1	Regression	Residential	184,999,964	76,243,652		
2						
3		General Service (excluding lighting):				
4	Customer	General Service Small and Large	48,355,467	6,071,876		
5	Regression	Miscellaneous	104,327	(19,325)		
6		Total General	48,459,794	6,052,551		
7						
8		Lighting:				
9	Regression	T & T2 (GL/FL/PL/OL)2	(128,699)	739,852		
10	Regression	TS	16,909	96,601		
11		Total Lighting	(111,790)	836,453		
12						
13		Industrial:				
14	Customer	I - Textile	(2,509,370)	-		
15	Customer	I - Nontextile	65,875,298	2,958,646		
16		Total Industrial	63,365,928	2,958,646		
17						
18						
19		Total	296,713,896	86,091,302	72,243,004	455,048,203

WP 13-2

Notes:

¹Two approved methods are used for estimating the growth adjustment depending on the class/schedule:

"Regression" refers to the use of Ordinary Least Squares Regression

"Customer" refers to the use of the Customer by Customer approach. See ND330 for further explanation

²T and T2 were combined due to North Carolina's FL & GL schedules being merged into OL & PL during the 12 month period.
rounding differences may occur

Calculation of Customer Growth Adjustment to KWH Sales - Wholesale

Line No.	Reference	
1	Total System Resale (kWh Sales)	Company Records 10,026,499,101
2	Less Intersystem Sales	Schedule 1 <u>2,045,438,486</u>
3	Total KWH Sales Excluding Intersystem Sales	L1 - L2 7,981,060,615
4	Residential Growth Factor	Line 8 <u>0.9052</u>
5	Adjustment to KWH's - Wholesale	L3 * L4 / 100 <u><u>72,243,004</u></u>
6	Total System Retail Residential kWh Sales	Company Records 28,860,941,635
7	2019 Proposed Adjustment KWH - Residential (NC+SC)	WP 13 1 261,243,616
8	Percent Adjustment	L7 / L6 * 100 0.9052

"RAC001": CarolinasOperating Revenue Report