

INFORMATION SHEET

PRESIDING: Chair Mitchell, Presiding; Commissioners Brown-Bland, Gray, Clodfelter, Duffley, Hughes, and McKissick

PLACE: Via WebEx Videoconference

DATE: Tuesday, June 9, 2020

TIME: 1:01 p.m. to 1:10 p.m.

DOCKET NO.: E-7, Sub 1228

VOLUME NUMBER: 2

COMPANIES: Duke Energy Carolinas, LLC

DESCRIPTION: Application of Duke Energy Carolinas, LLC, Pursuant to NCGS § 62-133.2 and NCUC Rule R8-55 Relating to Fuel and Fuel-Related Charge Adjustments for Electric Utilities.

APPEARANCES

See attached.

WITNESSES

See attached.

EXHIBITS

See attached.

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TRANSCRIPT COPIES ORDERED:

CONFIDENTIAL EXHIBITS:

REPORTED BY: Joann Bunze

DATE FILED: June 23, 2020

TRANSCRIPT PAGES: 14

PREFILED PAGES: 108

TOTAL PAGES: 122

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-7, SUB 1228

In the Matter of	)	
Application of Duke Energy Carolinas, LLC	)	
Pursuant to G.S. 62-133.2 and NCUC Rule	)	<b>DUKE ENERGY CAROLINAS,</b>
R8-55 Relating to Fuel and Fuel-Related	)	<b>LLC’S APPLICATION</b>
Charge Adjustments for Electric Utilities	)	

Duke Energy Carolinas, LLC (“DEC,” “Company,” or “Applicant”), pursuant to North Carolina General Statutes (“N.C. Gen. Stat.”) § 62-133.2 and North Carolina Utilities Commission (“NCUC” or the “Commission”) Rule R8-55, hereby makes this Application to adjust the fuel and fuel-related cost component of its electric rates. In support thereof, the Applicant respectfully shows the Commission the following:

1. The Applicant’s general offices are located at 550 South Tryon Street, Charlotte, North Carolina, and its mailing address is:

Duke Energy Carolinas, LLC  
P. O. Box 1006  
Charlotte, North Carolina 28201-1006

2. The names and addresses of Applicant’s attorneys are:

Jack E. Jirak  
Associate General Counsel  
Duke Energy Corporation  
Post Office Box 1551/NCRH 20  
Raleigh, North Carolina 27602  
(919) 546-3257  
[Jack.jirak@duke-energy.com](mailto:Jack.jirak@duke-energy.com)

Robert W. Kaylor  
Law Office of Robert W. Kaylor, P.A.  
353 Six Forks Road, Suite 260  
Raleigh, North Carolina 27609  
(919) 828-5250  
[bkaylor@rwkaylorlaw.com](mailto:bkaylor@rwkaylorlaw.com)

Copies of all pleadings, testimony, orders and correspondence in this proceeding should be served upon the attorneys listed above.

3. NCUC Rule R8-55 provides that the Commission shall schedule annual hearings pursuant to N.C. Gen. Stat. § 62-133.2 in order to review changes in the cost of fuel and fuel-related costs since the last general rate case for each utility generating electric power by means of fossil and/or nuclear fuel for the purpose of furnishing North Carolina retail electric service. Rule R8-55 schedules an annual cost of fuel and fuel-related costs adjustment hearing for DEC and requires that DEC use a calendar year test period (12 months ended December 31). Therefore, the test period used in this Application for these proceedings is the calendar year 2019.

4. In Docket No. E-7, Sub 1190, DEC's last fuel case, the Commission approved the following base fuel and fuel-related costs factors (excluding gross receipts tax and regulatory fee):

Residential - 1.9501 ¢ per kWh  
Commercial - 2.0488 ¢ per kWh  
Industrial - 2.1023 ¢ per kWh

5. In this Application, DEC proposes base fuel and fuel-related costs factors (excluding gross receipts tax and regulatory fee) of:

Residential - 1.5959¢ per kWh  
Commercial - 1.7561¢ per kWh  
Industrial - 1.6827¢ per kWh

The base fuel and fuel-related cost factors should be adjusted for the Experience Modification Factor ("EMF") by an increment/(decrement) (excluding gross receipts tax and regulatory fee) of:

Residential - 0.1574¢ per kWh  
Commercial - 0.1510¢ per kWh  
Industrial - 0.3067¢ per kWh

The base fuel and fuel-related costs factors should also be adjusted for the EMF interest (decrement) (excluding gross receipts tax and regulatory fee) of:

Residential - 0¢ per kWh  
Commercial - 0¢ per kWh  
Industrial - 0¢ per kWh

This results in composite fuel and fuel-related costs factors (excluding gross receipts tax and regulatory fee) of:

Residential - 1.7533¢ per kWh  
Commercial - 1.9071¢ per kWh  
Industrial - 1.9939¢ per kWh

The new fuel factors would have an effective date of September 1, 2020.

6. The information and data required to be filed by NCUC Rule R8-55 is contained in the testimony and exhibits of Kevin Y. Houston, Kimberly McGee, Brett Phipps, Regis Repko and Steven D. Capps which are being filed simultaneously with this Application and incorporated herein by reference.

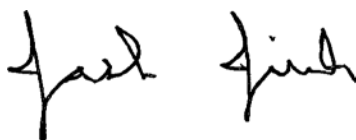
7. For comparison, in accordance with Rule R8-55(d)(1) and R8-55(e)(3), base fuel and fuel-related costs factors were also calculated based on the most recent North American Electric Reliability Corporation (“NERC”) five-year national weighted average nuclear capacity factor (91.60%) and projected period sales and the methodology used for fuel costs in DEC’s last general rate case. These base fuel and fuel-related costs factors are:

	<u>NERC Average</u>	<u>Last General Rate Case</u>
Residential -	1.7932¢ per kWh	1.7523¢ per kWh
Commercial -	1.9358¢ per kWh	1.9024¢ per kWh
Industrial -	2.0159¢ per kWh	1.9920¢ per kWh

WHEREFORE, Duke Energy Carolinas requests that the Commission issue an order approving composite fuel and fuel-related costs factors (excluding gross receipts tax and regulatory fee) of:

Residential -	1.7533¢ per kWh
Commercial -	1.9071¢ per kWh
Industrial -	1.9939¢ per kWh

Respectfully submitted this 25<sup>th</sup> day of February , 2020.



By: \_\_\_\_\_

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

Robert W. Kaylor  
 Law Office of Robert W. Kaylor, P.A.  
 353 Six Forks Road, Suite 260  
 Raleigh, North Carolina 27609  
 Tel: (919) 828-5250  
[bkaylor@rwkaylorlaw.com](mailto:bkaylor@rwkaylorlaw.com)  
 North Carolina State Bar No. 6237

ATTORNEYS FOR DUKE ENERGY CAROLINAS, LLC

STATE OF NORTH CAROLINA )  
 )  
COUNTY OF MECKLENBURG )

VERIFICATION

Kimberly McGee, being first duly sworn, deposes and says:

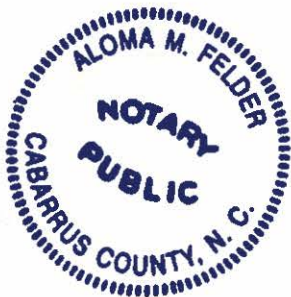
That she is RATES MANAGER for DUKE ENERGY CAROLINAS, LLC, applicant in the above-titled action; that she has read the foregoing Application and knows the contents thereof; that the same is true except as to the matters stated therein on information and belief; and as to those matters, she believes it to be true.

Kimberly McGee  
Kimberly McGee

Sworn to and subscribed before me this the 20th day of February, 2020.

Aloma M. Felder  
Notary Public Aloma M. Felder

My Commission expires: July 21, 2020



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

McGee Exhibit 1

Line #	Description	Reference	Residential cents/kWh	General cents/kWh	Industrial cents/kWh	Composite cents/kWh
<b><u>Current Fuel and Fuel Related Cost Factors (Approved Fuel Rider Docket No. E-7, Sub 1190)</u></b>						
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	<b>1.9501</b>	<b>2.0488</b>	<b>2.1023</b>	<b>2.0247</b>
<b><u>Fuel and Fuel Related Cost Factors Required by Rule R8-55</u></b>						
5	Proposed Nuclear Capacity Factor of 94.39% and Normalized Test Period Sales	Exh 2 Sch 2 pg 2	<b>1.7523</b>	<b>1.9024</b>	<b>1.9920</b>	<b>1.8663</b>
6	NERC 5 Year Average Nuclear Capacity Factor of 91.60% and Projected Period Sales	Exh 2 Sch 3 pg 2	<b>1.7932</b>	<b>1.9358</b>	<b>2.0159</b>	<b>1.9008</b>
<b><u>Proposed Fuel and Fuel Related Cost Factors using Proposed Nuclear Capacity Factor of 94.39%</u></b>						
7	Fuel and Fuel Related Costs excluding Purchased Capacity cents/kWh	Exh 2 Sch 1 pg 2	1.5606	1.7286	1.6648	1.6533
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	1.5959	1.7561	1.6872	1.6827
10	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.1574	0.1510	0.3067	0.1866
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	<b>1.7533</b>	<b>1.9071</b>	<b>1.9939</b>	<b>1.8693</b>

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			22,532,174
5	Total Fossil	Sum	39,955,452		1,000,297,556
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		1,358,894,872
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		1,232,498,472
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	1.6126	1,505,391,041
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			1,484,142,254
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			1.6792

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
<b>Calculation of Renewable and Cogeneration Purchased Power Capacity Rate by Class</b>						
						<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
<b>Summary of Total Rate by Class</b>						
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	1.5606	1.7286	1.6648	1.6533
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>1.5959</u>	<u>1.7561</u>	<u>1.6872</u>	<u>1.6827</u>
13	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.1574	0.1510	0.3067	0.1866
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>1.7533</u>	<u>1.9071</u>	<u>1.9939</u>	<u>1.8693</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

McGee Exhibit 2  
Schedule 1  
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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	\$ (43,426,292)	-1.90%	(0.1968)	1.9501	1.7533
2	General Service/Lighting	23,951,115	1,783,527,535	(33,937,727)	-1.90%	(0.1417)	2.0488	1.9071
3	Industrial	12,441,023	708,569,199	(13,482,959)	-1.90%	(0.1084)	2.1023	1.9939
4	NC Retail	58,460,089	\$ 4,774,276,270	\$ (90,846,978)	-1.90%			
<b>Total Proposed Composite Fuel Rate:</b>								
5	Total Fuel Costs for Allocation	Workpaper 7	\$ 1,489,416,245					
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	\$ 1,464,008,218					
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	\$ 966,538,226					
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	\$ 983,700,656					
14	NC Retail Projected Billing Period MWh Sales	Line 4	58,460,089					
15	Calculated Fuel Rate cents/kWh	Line 13 / Line 14 / 10	1.6827					
16	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.1866					
17	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.0000					
18	Total Proposed Composite Fuel Rate	Sum	1.8693					
<b>Total Current Composite Fuel Rate - Docket E-7 Sub 1190:</b>								
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	(0.1554)					
24	NC Retail Projected Billing Period MWh Sales	Line 4	58,460,089					
25	Increase/(Decrease) in Fuel Costs	Line 23 * Line 24 * 10	\$ (90,846,978)					

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	-		22,532,174
5	Total Fossil	Sum	39,702,984		993,404,434
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		1,352,001,750
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		1,225,605,350
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		1,498,497,919
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			1,477,249,132
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			1.6762

Note: Rounding differences may occur

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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  
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Docket E-7, Sub 1228

McGee Exhibit 2  
Schedule 2  
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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
<b>Calculation of Renewable Purchased Power Capacity Rate by Class</b>						
						<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
<b>Summary of Total Rate by Class</b>						
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	1.5602	1.7236	1.6630	1.6504
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>1.5949</u>	<u>1.7514</u>	<u>1.6853</u>	<u>1.6797</u>
13	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.1574	0.1510	0.3067	0.1866
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>1.7523</u>	<u>1.9024</u>	<u>1.9920</u>	<u>1.8663</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  
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Docket E-7, Sub 1228

McGee Exhibit 2  
Schedule 2  
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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	\$ (44,387,641)	-1.94%	(0.1978)	1.9501	1.7523
2	General Service/Lighting	23,688,550	\$ 1,783,527,535	(34,689,024)	-1.94%	(0.1464)	2.0488	1.9024
3	Industrial	12,489,508	\$ 708,569,199	(13,781,438)	-1.94%	(0.1103)	2.1023	1.9920
4	NC Retail	58,622,539	\$ 4,774,276,270	\$ (92,858,103)				
<b>Total Proposed Composite Fuel Rate:</b>								
5	Total Fuel Costs for Allocation	Workpaper 7a	\$ 1,482,523,124					
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	\$ 1,457,115,097					
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	\$ 967,524,424					
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	\$ 984,686,854					
14	NC Retail Normalized Test Period MWh Sales	Line 9	58,622,539					
15	Calculated Fuel Rate cents/kWh	Line 13 / Line 14 / 10	1.6797					
16	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.1866					
17	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.0000					
18	Total Proposed Composite Fuel Rate	Sum	1.8663					
<b>Total Current Composite Fuel Rate - Docket E-7 Sub 1190:</b>								
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	(0.1584)					
24	NC Retail Normalized Test Period MWh Sales	Exhibit 4	58,622,539					
25	Increase/(Decrease) in Fuel Costs	Line 23 * Line 24 * 10	\$ (92,858,102)					

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

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Feb 25 2020

Line #	Unit	Reference	Generation (MWh) D	Unit Cost (cents/kWh) E	Fuel Cost (\$) 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	-		22,532,174
5	Total Fossil	Sum	41,267,467		1,036,119,489
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		1,384,147,846
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		1,260,395,479
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		1,533,288,048
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			1,512,039,261
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			1.7108

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

McGee Exhibit 2  
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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
<b>Calculation of Renewable Purchased Power Capacity Rate by Class</b>						<b>Amount</b>
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
<b>Summary of Total Rate by Class</b>						
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	1.6005	1.7573	1.6868	1.6848
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	1.6358	1.7848	1.7092	1.7142
13	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.1574	0.1510	0.3067	0.1866
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	1.7932	1.9358	2.0159	1.9008

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	\$ (34,623,665)	-1.52%	(0.1569)	1.9501	1.7932
2	General Service/Lighting	23,951,115	\$ 1,783,527,535	\$ (27,058,458)	-1.52%	(0.1130)	2.0488	1.9358
3	Industrial	12,441,023	\$ 708,569,199	\$ (10,749,927)	-1.52%	(0.0864)	2.1023	2.0159
4	NC Retail	58,460,089	\$ 4,774,276,270	\$ (72,432,050)				

**Total Proposed Composite Fuel Rate:**

5	Total Fuel Costs for Allocation	Workpaper 7b	\$ 1,517,313,259					
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	\$ 1,491,905,232					
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	\$ 984,955,834					
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	\$ 1,002,118,264					
14	NC Retail Projected Billing Period MWh Sales	Line 4	58,460,089					
15	Calculated Fuel Rate cents/kWh	Line 13 / Line 14 / 10	1.7142					
16	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.1866					
17	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.0000					
18	Total Proposed Composite Fuel Rate	Sum	1.9008					

**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	(0.1239)					
24	NC Retail Projected Billing Period MWh Sales	Line 4	58,460,089					
25	Increase/(Decrease) in Fuel Costs	Line 23 * Line 24 * 10	\$ (72,432,050)					

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

McGee Exhibit 3  
 Page 1 of 4

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	<b>Total Test Period</b>			<b>58,642,521</b>	<b>\$ 109,389,423</b>
14	<b>Total (Over)/ Under Recovery</b>				<b>\$ 109,389,423</b>
15	NC Retail Normalized Test Period MWh Sales			Exhibit 4	58,622,539
16	<b>Experience Modification Increment (Decrement) cents/kWh</b>				<b>0.1866</b>

<sup>(1)</sup> 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

McGee Exhibit 3  
Page 2 of 4

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	<b>Total Test Period</b>			<b>22,091,823</b>	<b>\$ 35,324,665</b>
14	Test Period Wtd Avg. ¢/kWh	1.8931	1.7352		
15	<b>Total (Over)/ Under Recovery</b>				<b>\$ 35,324,665</b>
16	NC Retail Normalized Test Period MWh Sales			Exhibit 4	22,444,481
17	<b>Experience Modification Increment (Decrement) cents/kWh</b>				<b>0.1574</b>

**Notes:**

<sup>(1)</sup> 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	<b>Total Test Period</b>			<b>24,259,901</b>	<b>\$ 35,758,666</b>
14	Test Period Wtd Avg. ¢/kWh	2.0178	1.8720		
15	<b>Total (Over)/ Under Recovery</b>				<b>\$ 35,758,666</b>
16	NC Retail Normalized Test Period MWh Sales			Exhibit 4	23,688,550
17	<b>Experience Modification Increment (Decrement) cents/kWh</b>				<b>0.1510</b>

**Notes:**

<sup>(1)</sup> 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 c/kWh (a)	Fuel Cost Billed c/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	<b>Total Test Period</b>			<b>12,290,797</b>	<b>\$ 38,306,091</b>
14	Test Period Wtd Avg. c/kWh	2.1439	1.8330		
15	<b>Total (Over)/ Under Recovery</b>				<b>\$ 38,306,091</b>
16	NC Retail Normalized Test Period MWh Sales			Exhibit 4	12,489,508
17	<b>Experience Modification Increment (Decrement) cents/KWh</b>				<b>0.3067</b>

**Notes:**

<sup>(1)</sup> 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

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			
				<b>Summer Coincidental Peak (CP) kW</b>			
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>7,150,989</u>	<u>87,911,333</u>
5 Total fuel and fuel-related costs (¢/KWH) (line 1/line 4)	<u>1.7175</u>	<u>1.9908</u>
6 Current fuel and fuel-related cost component (¢/KWH) (per Schedule 4, Line 7a Total)	<u>1.8856</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>6,286,918</u>	<u>83,505,648</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:	December 2019	12 Months Ended December 2019
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	-	-	-	
	<b>\$ 20,779,232</b>	<b>\$ 253,836</b>	<b>872,300</b>	<b>\$ 17,891,442</b>	<b>\$ 2,634,380</b>	<b>\$ (425)</b>
<b>Renewable Energy</b>						
REPS	\$ 4,555,891	\$ 591,922	81,362	\$ -	\$ 3,963,969	\$ -
DERP - Purchased Power	24,691	2,168	390	-	15,590	6,933
	<b>\$ 4,580,582</b>	<b>\$ 594,090</b>	<b>81,752</b>	<b>\$ -</b>	<b>\$ 3,979,559</b>	<b>\$ 6,933</b>
<b>HB589 PURPA Purchases</b>						
Qualifying Facilities	2,350,054	187,603	46,154	-	2,090,407	72,044
	<b>\$ 2,350,054</b>	<b>\$ 187,603</b>	<b>46,154</b>	<b>\$ -</b>	<b>\$ 2,090,407</b>	<b>\$ 72,044</b>
<b>Non-dispatchable / Other</b>						
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
	<b>\$ 2,921,979</b>	<b>\$ 1,275,700</b>	<b>55,431</b>	<b>\$ 924,510</b>	<b>\$ -</b>	<b>\$ 721,769</b>
<b>Total Purchased Power</b>	<b>\$ 30,631,847</b>	<b>\$ 2,311,229</b>	<b>1,055,637</b>	<b>\$ 18,815,952</b>	<b>\$ 8,704,346</b>	<b>\$ 800,320</b>
<b>Interchanges In</b>						
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
<b>Interchanges Out</b>						
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)
<b>Net Purchases and Interchange Power</b>	<b>\$ 30,562,284</b>	<b>\$ 2,177,020</b>	<b>1,065,215</b>	<b>\$ 18,739,467</b>	<b>\$ 8,704,346</b>	<b>\$ 941,453</b>

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 \$
<b>Utilities:</b>					
SC Electric & Gas - Emergency	\$ 31,543	-	470	\$ 27,262	\$ 4,281
<b>Market Based:</b>					
Central Electric Power Cooperative, Inc.	458,000	\$ 458,000	-	-	-
NCMPA	91,985	87,500	48	4,187	298
PJM Interconnection, LLC.	168	-	-	-	168
<b>Other:</b>					
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	-	-	-	-	-
<b>Total Intersystem Sales</b>	<b>\$ 2,762,609</b>	<b>\$ 545,500</b>	<b>70,226</b>	<b>\$ 2,169,260</b>	<b>\$ 47,849</b>

\* 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					
			Economic	\$	mWh	Fuel \$	Fuel-related \$	Not Fuel \$
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		-	-	-		
	<b>\$ 273,325,408</b>	<b>\$ 11,212,311</b>		<b>7,993,064</b>	<b>\$ 206,024,843</b>	<b>\$ 55,951,524</b>	<b>\$ 136,730</b>	
<b>Renewable Energy</b>								
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	
	<b>\$ 71,769,224</b>	<b>\$ 15,308,976</b>		<b>1,123,838</b>	<b>\$ -</b>	<b>\$ 56,329,928</b>	<b>\$ 130,320</b>	
<b>HB589 PURPA Purchases</b>								
Qualifying Facilities	34,809,936	\$ 6,969,349		580,279	\$ -	\$ 26,764,794	\$ 1,075,793	
	<b>\$ 34,809,936</b>	<b>\$ 6,969,349</b>		<b>580,279</b>	<b>\$ -</b>	<b>\$ 26,764,794</b>	<b>\$ 1,075,793</b>	
<b>Non-dispatchable / Other</b>								
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	
	<b>\$ 46,656,380</b>	<b>\$ 14,483,170</b>		<b>909,017</b>	<b>\$ 18,966,910</b>	<b>\$ -</b>	<b>\$ 13,206,300</b>	
<b>Total Purchased Power</b>	<b>\$ 426,560,948</b>	<b>\$ 47,973,806</b>		<b>10,606,198</b>	<b>\$ 224,991,753</b>	<b>\$ 139,046,246</b>	<b>\$ 14,549,143</b>	
<b>Interchanges In</b>								
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	
<b>Interchanges Out</b>								
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)	
<b>Net Purchases and Interchange Power</b>	<b>\$ 428,113,370</b>	<b>\$ 46,393,599</b>		<b>10,903,350</b>	<b>\$ 226,010,545</b>	<b>\$ 139,046,246</b>	<b>\$ 16,662,980</b>	

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 \$
<b>Utilities:</b>					
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
<b>Market Based:</b>					
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
<b>Other:</b>					
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)
<b>Total Intersystem Sales</b>	<b>\$ 67,773,157</b>	<b>\$ 5,630,350</b>	<b>2,045,438</b>	<b>\$ 60,148,973</b>	<b>\$ 1,993,834</b>

\* 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				7,161,497,356
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)	1.8127	1.9562	1.8935	1.8857
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]	(\$5,977,815)	(\$2,444,288)	\$509,741	(\$7,912,362)
13	Prior period adjustments	320,433	254,840	74,777	650,050
14	Total (over) / under recovery [See footnote]	(\$5,657,382)	(\$2,189,448)	\$584,518	(\$7,262,312)
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				\$122,817,184

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	(\$5,657,382)	(\$2,189,448)	\$584,518	(7,262,312)
		\$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
<b>Cost of Fuel Purchased (\$)</b>								
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					
<b>Total</b>	<b>\$2,365,698</b>	<b>\$17,133,228</b>	<b>\$10,327,668</b>		<b>\$54,658</b>	<b>\$15,392,619</b>	<b>\$8,074,155</b>	<b>\$14,230,745</b>
<b>Average Cost of Fuel Purchased (¢/MBTU)</b>								
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					
<b>Weighted Average</b>	<b>317.12</b>	<b>268.11</b>	<b>358.73</b>		<b>388.57</b>	<b>328.85</b>	<b>345.25</b>	<b>347.45</b>
<b>Cost of Fuel Burned (\$)</b>								
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				
<b>Total</b>	<b>\$818,738</b>	<b>\$11,413,332</b>	<b>\$10,327,668</b>	<b>\$10,342,435</b>	<b>\$54,658</b>	<b>\$3,949,150</b>	<b>\$8,074,155</b>	<b>\$14,230,745</b>
<b>Average Cost of Fuel Burned (¢/MBTU)</b>								
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				
<b>Weighted Average</b>	<b>328.06</b>	<b>317.95</b>	<b>358.73</b>	<b>59.29</b>	<b>388.57</b>	<b>331.21</b>	<b>345.25</b>	<b>347.45</b>
<b>Average Cost of Generation (¢/kWh)</b>								
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				
<b>Weighted Average</b>	<b>4.85</b>	<b>3.02</b>	<b>2.54</b>	<b>0.59</b>	<b>-</b>	<b>3.53</b>	<b>2.54</b>	<b>2.42</b>
<b>Burned MBTU's</b>								
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				
<b>Total</b>	<b>249,567</b>	<b>3,589,684</b>	<b>2,878,993</b>	<b>17,444,528</b>	<b>14,066</b>	<b>1,192,335</b>	<b>2,338,618</b>	<b>4,095,789</b>
<b>Net Generation (mWh)</b>								
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)								
<b>Total</b>	<b>16,887</b>	<b>377,983</b>	<b>406,529</b>	<b>1,745,157</b>	<b>(243)</b>	<b>111,855</b>	<b>317,530</b>	<b>588,459</b>
<b>Cost of Reagents Consumed (\$)</b>								
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)	-							
<b>Total</b>	<b>30,312</b>	<b>\$177,655</b>	<b>\$16,314</b>			<b>\$161,875</b>	<b>\$3,702</b>	<b>\$21,144</b>

(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	331.44 359.19 1,927.92
1,353.90	407.29	311.69	59.52 59.52	546.19	58.32 58.32	354.79	59.05 140.70	59.06 158.08
-	-	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
<b>Coal Data:</b>														
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
<b>Oil Data:</b>														
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
<b>Natural Gas Data:</b>														
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														
<b>Biogas Data:</b>														
Beginning balance														
MCF received during period			14,866			-	-						14,866	119,928
MCF burned during period			14,866			-	-						14,866	119,928
Ending balance														
<b>Limestone Data:</b>														
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
<b>Ammonia Data:</b>														
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.

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**DUKE ENERGY CAROLINAS**  
**ANALYSIS OF COAL PURCHASED**  
**DECEMBER 2019**

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
<b>ALLEN</b>	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>
<b>BELEWS CREEK</b>	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>
<b>CLIFFSIDE</b>	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>
<b>MARSHALL</b>	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>
<b>ALL PLANTS</b>	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**

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

**DUKE ENERGY CAROLINAS**  
**ANALYSIS OF OIL PURCHASED**  
**DECEMBER 2019**

	<b>ALLEN</b>	<b>BELEWS CREEK</b>
<b>VENDOR</b>	HighTowers	HighTowers
<b>SPOT/CONTRACT</b>	Contract	Contract
<b>SULFUR CONTENT %</b>	0	0
<b>GALLONS RECEIVED</b>	22,210	284,927
<b>TOTAL DELIVERED COST</b>	\$ 45,499	\$ 583,901
<b>DELIVERED COST/GALLON</b>	\$ 2.05	\$ 2.05
<b>BTU/GALLON</b>	138,000	138,000
	<b>CLIFFSIDE</b>	<b>MARSHALL</b>
<b>VENDOR</b>	HighTowers	HighTowers
<b>SPOT/CONTRACT</b>	Contract	Contract
<b>SULFUR CONTENT %</b>	0	0
<b>GALLONS RECEIVED</b>	83,076	209,541
<b>TOTAL DELIVERED COST</b>	\$ 169,053	\$ 432,089
<b>DELIVERED COST/GALLON</b>	\$ 2.03	\$ 2.06
<b>BTU/GALLON</b>	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	
<b>Avg \$/MWh</b>		<b>6.0407</b>						
<b>Cents per kWh</b>		<b>0.6041</b>						

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>
<b>Hours in month</b>			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>
<b>Proposed Nuclear Capacity Factor</b>			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

McGee Workpaper 2

	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>		<u>91.60%</u>

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 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	22,532,174	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
<b>Total Purchases</b>	272,892,569	
<b>Fuel Expense recovered through intersystem sales</b>	(21,248,787)	Workpaper 5
<b>Total System Fuel and Fuel Related Costs</b>	<b>\$ 1,484,142,254</b>	



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

Positive numbers represent costs to Rate Payers, Negative numbers represent removal of costs to ratepayers

	Allocated Economic Purchase Cost		Economic Sales Cost		Fuel Transfer Payment		JDA Savings Payment	
	DEP	DEC	DEP	DEC	DEP	DEC	DEP	DEC
9/1/2020	\$ 150,586	\$ 218,086	\$ (186,875)	\$ (1,877)	\$ (11,497,078)	\$ 11,497,078	\$ (1,975,776)	\$ 1,975,776
10/1/2020	\$ 265,863	\$ 393,719	\$ (14,356)	\$ (18,503)	\$ (12,216,995)	\$ 12,216,995	\$ (4,360,326)	\$ 4,360,326
11/1/2020	\$ 240,709	\$ 352,454	\$ (113,164)	\$ (144,187)	\$ (9,859,588)	\$ 9,859,588	\$ (1,221,763)	\$ 1,221,763
12/1/2020	\$ 305,584	\$ 439,721	\$ (344,748)	\$ (156,339)	\$ (6,964,610)	\$ 6,964,610	\$ (728,229)	\$ 728,229
1/1/2021	\$ 555,450	\$ 797,270	\$ (2,223,855)	\$ (5,361,748)	\$ (1,671,260)	\$ 1,671,260	\$ 438,172	\$ (438,172)
2/1/2021	\$ 276,329	\$ 404,845	\$ (1,175,462)	\$ (2,653,321)	\$ (1,478,925)	\$ 1,478,925	\$ 252,213	\$ (252,213)
3/1/2021	\$ 115,648	\$ 173,267	\$ (267,648)	\$ (249,022)	\$ (4,669,706)	\$ 4,669,706	\$ (519,291)	\$ 519,291
4/1/2021	\$ 322,509	\$ 493,555	\$ (59,771)	\$ (13,472)	\$ (9,219,652)	\$ 9,219,652	\$ (2,086,290)	\$ 2,086,290
5/1/2021	\$ 259,850	\$ 377,118	\$ (169,035)	\$ (150,799)	\$ (3,269,361)	\$ 3,269,361	\$ (246,015)	\$ 246,015
6/1/2021	\$ 477,664	\$ 655,788	\$ (147,998)	\$ (159,459)	\$ (7,563,783)	\$ 7,563,783	\$ (808,172)	\$ 808,172
7/1/2021	\$ 703,253	\$ 985,552	\$ (337,183)	\$ (358,756)	\$ (12,505,842)	\$ 12,505,842	\$ (1,506,194)	\$ 1,506,194
8/1/2021	\$ 1,218,853	\$ 1,758,065	\$ (148,196)	\$ (46,457)	\$ (12,226,627)	\$ 12,226,627	\$ (1,520,045)	\$ 1,520,045

Sept 20 - Aug 21

\$ 7,049,441

\$ (9,313,939)

\$ 93,143,428

\$ 14,281,717

\$ 105,078,276 Workpaper 6 - Transfer - Purchases

\$ (11,934,848) Workpaper 6 - Transfer - Sales

\$ 93,143,428 Sept 20-Aug 21 Net Fuel Transfer Payment

rounding differences may occur

\$ (11,934,848) Workpaper 6 - Transfer - Sales

\$ (9,313,939) Sept 20-Aug 21 Economic Sales Cost

\$ (21,248,787) Total Fuel expense recovered through intersystem sales

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

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	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 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%
<b>SC Net Metering allocation adjustment</b>			
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	\$ 1,484,142,254		McGee Exhibit 2 Schedule 1 Page 1 of 3
Fuel benefit to be directly assigned to SC Retail	\$ 5,273,991		
Total Fuel Costs for Allocation	\$ 1,489,416,245		McGee Exhibit 2 Schedule 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	\$ 1,484,142,254			
QF and REPS Compliance Purchased Power - Capacity	\$ 25,408,027			
Other fuel costs	\$ 1,458,734,227			
SC Net Metering Fuel Allocation adjustment	\$ 5,273,991			
Jurisdictional fuel costs after adj.	\$ 1,464,008,218			
Jurisdictional fuel costs	\$ 1,464,008,218	66.02%	9.23%	24.75%
Direct Assignment of Fuel benefit to SC Retail	\$ (5,273,991)	\$ 966,538,226	\$ 135,127,959	\$ 362,342,034
Total system actual fuel costs	\$ 1,458,734,227	\$ 966,538,226	\$ 135,127,959	\$ 357,068,043
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	\$ 1,484,142,254	\$ 983,700,656		

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  
NERC 5 Year Average Nuclear Capacity Factor of 91.60%  
Billing Period Sept 2020 through Aug 2021  
Docket E-7, Sub 1228

McGee 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 General	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 General	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 General	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
<b>Projected System MWh Sales for Fuel Factor</b>	<b>88,383,239</b>	<b>162,127</b>	<b>88,545,366</b>
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	\$ 1,512,039,261	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	\$ 1,517,313,259	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	\$ 1,512,039,261			
QF and REPS Compliance Purchased Power - Capacity	\$ 25,408,027			
Other fuel costs	\$ 1,486,631,234			
SC Net Metering Fuel Allocation adjustment	\$ 5,273,998			
Jurisdictional fuel costs after adj.	\$ 1,491,905,232			
Allocation to states/classes		66.02%	9.23%	24.75%
Jurisdictional fuel costs	\$ 1,491,905,232	\$ 984,955,834	\$ 137,702,853	\$ 369,246,545
Direct Assignment of Fuel benefit to SC Retail	\$ (5,273,998)	\$ -	\$ -	\$ (5,273,998)
Total system actual fuel costs	\$ 1,486,631,234	\$ 984,955,834	\$ 137,702,853	\$ 363,972,547
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	\$ 1,512,039,261	\$ 1,002,118,264		

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
<b>Total</b>	<b>\$ 398,725,652.84</b>	<b>4,799,050,153</b>		<b>58,622,539</b>	<b>\$ 4,774,276,270</b>

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

McGee Workpaper 9

Reagent and ByProduct projections

Date	Ammonia	Urea	Limestone	Magnesium hydroxide	Calcium Carbonate	Lime	Reagent Cost	Gypsum (Gain)/ Loss	Ash (Gain)/Loss	Steam (Gain)/Loss	Sale of By-Products (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)	\$ (80,084)	\$ 245,582
10/1/2020	\$ 188,501	\$ 32,984	\$ 1,042,637	\$ 71,908	\$ 42,872	\$ 59,960	\$ 1,438,861	\$ 290,184	\$ (13,557)	\$ (79,927)	\$ 196,699
11/1/2020	\$ 198,004	\$ 34,647	\$ 1,095,204	\$ 137,550	\$ 71,592	\$ 59,960	\$ 1,596,957	\$ 355,932	\$ (73,420)	\$ (79,783)	\$ 202,728
12/1/2020	\$ 261,216	\$ 45,708	\$ 1,444,841	\$ 228,479	\$ 110,121	\$ 59,960	\$ 2,150,324	\$ 509,662	\$ (174,818)	\$ (79,671)	\$ 255,173
1/1/2021	\$ 419,456	\$ 73,397	\$ 2,320,102	\$ 333,985	\$ 162,393	\$ 59,960	\$ 3,369,293	\$ 761,396	\$ (243,098)	\$ (79,644)	\$ 438,654
2/1/2021	\$ 410,928	\$ 71,904	\$ 2,272,930	\$ 333,052	\$ 162,346	\$ 59,960	\$ 3,311,120	\$ 726,826	\$ (224,855)	\$ (79,639)	\$ 422,331
3/1/2021	\$ 211,172	\$ 36,951	\$ 1,168,035	\$ 232,231	\$ 105,236	\$ 59,960	\$ 1,813,585	\$ 444,465	\$ (184,558)	\$ (79,617)	\$ 180,291
4/1/2021	\$ 49,963	\$ 8,743	\$ 276,356	\$ 210,962	\$ 99,191	\$ 59,960	\$ 705,175	\$ 85,702	\$ (24,859)	\$ (79,602)	\$ (18,759)
5/1/2021	\$ 36,003	\$ 6,300	\$ 199,141	\$ 188,716	\$ 90,692	\$ 59,960	\$ 580,811	\$ 51,459	\$ (9,663)	\$ (79,599)	\$ (37,803)
6/1/2021	\$ 63,789	\$ 11,162	\$ 352,832	\$ 282,721	\$ 137,281	\$ 59,960	\$ 907,746	\$ 104,580	\$ (30,245)	\$ (79,617)	\$ (5,281)
7/1/2021	\$ 123,135	\$ 21,546	\$ 681,086	\$ 340,068	\$ 167,985	\$ 59,960	\$ 1,393,781	\$ 208,096	\$ (57,134)	\$ (79,632)	\$ 71,330
8/1/2021	\$ 120,576	\$ 21,098	\$ 666,931	\$ 324,557	\$ 162,092	\$ 59,960	\$ 1,355,215	\$ 205,966	\$ (57,385)	\$ (79,647)	\$ 68,934

\$ 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) \$ (956,462) \$ 2,019,880

Total Reagent cost and Sale of By-products \$ 22,532,174

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
<b>E-7 Sub 1228</b>				
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
<b>E-7 Sub 1190</b>				
	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

DUKE ENERGY CAROLINAS  
North Carolina Annual Fuel and Fuel Related Expense  
2.5% calculation test  
Twelve Months Ended December 31, 2019  
Docket E-7, Sub 1228

McGee Workpaper 10a

	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%
<b>Fuel and Fuel related component of purchased power</b>													
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
<b>Less:</b>													
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)
<b>Capacity component of purchased power</b>													
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
<b>TOTAL (Over)/ Under \$:</b>	<b>\$ 7,015,780</b>	<b>\$ 1,811,363</b>	<b>\$ 15,688</b>	<b>\$ 1,682,813</b>	<b>\$ (2,129,491)</b>	<b>\$ (2,795,372)</b>	<b>\$ (864,756)</b>	<b>\$ (649,496)</b>	<b>\$ (1,695,060)</b>	<b>\$ 156,785</b>	<b>\$ (119,692)</b>	<b>\$ (811,539)</b>	<b>\$ 1,617,020</b>

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	Jan18	Feb18	Mar18	Apr18	May18	June 18	Jul18	Aug18	Sep18	Oct18	Nov18	Dec18	12 ME
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%
<b>Fuel and Fuel related component of purchased power</b>													
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
<b>Less:</b>													
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 (c/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
<b>Capacity component of purchased power</b>													
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 (c/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
<b>TOTAL (Over)/ Under \$:</b>	<b>\$ 25,432,185</b>	<b>\$ 3,435,322</b>	<b>\$ 2,873,271</b>	<b>\$ 2,034,577</b>	<b>\$ 2,794,608</b>	<b>\$ 2,733,159</b>	<b>\$ 6,299,140</b>	<b>\$ 7,839,965</b>	<b>\$ 4,382,500</b>	<b>\$ 2,199,474</b>	<b>\$ 3,062,201</b>	<b>\$ 9,402,025</b>	<b>\$ 72,488,427</b>

**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**

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

McGee Workpaper 12  
 Page 1

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	
2019	TOTAL MWH ADJUSTMENT	TOTAL MWH ADJUSTMENT	TOTAL MWH 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	<b>219,018</b>	<b>(765,439)</b>	<b>234,566</b>	<b>(311,855)</b>

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	
		13	
Total	<b>76,245</b>	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

McGee Workpaper 13

Page 1

Line	Estimation Method <sup>1</sup>	Rate Schedule	NC	SC	Wholesale	Total Company
			Proposed KWH <sup>1</sup>	Proposed KWH	Proposed KWH	
			Adjustment	Adjustment	Adjustment	
1	Regression	Residential	184,999,964	76,243,652		
2						
3		<b>General Service (excluding lighting):</b>				
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		<b>Lighting:</b>				
9	Regression	T & T2 (GL/FL/PL/OL) <sup>2</sup>	(128,699)	739,852		
10	Regression	TS	16,909	96,601		
11		Total Lighting	(111,790)	836,453		
12						
13		<b>Industrial:</b>				
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:

<sup>1</sup>Two 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

<sup>2</sup>T 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

<u>Line No.</u>	<u>Reference</u>	
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

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

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:						
	<b>NC RETAIL</b>	58,642,521	296,714	(316,696)	-	58,622,539
South Carolina:						
	<b>SC RETAIL</b>	21,466,517	86,091	4,841	162,127	21,719,576
	<b>Wholesale</b>	7,802,295	72,243	76,245	-	7,950,783
	<b>Normalized System MWH Sales for Fuel Factor</b>	<b>87,911,333</b>	<b>455,048</b>	<b>(235,610)</b>	<b>162,127</b>	<b>88,292,898</b>
	<b>NC as a percentage of total</b>	<b>66.71%</b>				<b>66.40%</b>
	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	\$ 1,477,249,132	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	\$ 1,482,523,124	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	\$ 1,477,249,132			
QF and REPS Compliance Purchased Power - Capacity	\$ 25,408,027			
Other fuel costs	\$ 1,451,841,105			
SC Net Metering Fuel Allocation adjustment	\$ 5,273,991			
Jurisdictional fuel costs after adj.	\$ 1,457,115,097			
Allocation to states/classes		66.40%	9.01%	24.60%
Jurisdictional fuel costs	\$ 1,457,115,097	\$ 967,524,424	\$ 131,286,070	\$ 358,450,314
Direct Assignment of Fuel benefit to SC Retail	\$ (5,273,991)		\$ -	\$ (5,273,991)
Total system actual fuel costs	\$ 1,451,841,105	\$ 967,524,424	\$ 131,286,070	\$ 353,176,322
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	\$ 1,477,249,132	\$ 984,686,854		

Exh. 2, Sch 2 page 3, Line 13

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

Supplemental  
Revised McGee Exhibit 1

Line #	Description	Reference	Residential cents/kWh	General cents/kWh	Industrial cents/kWh	Composite cents/kWh
<b><u>Current Fuel and Fuel Related Cost Factors (Approved Fuel Rider Docket No. E-7, Sub 1190)</u></b>						
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	<b>1.9501</b>	<b>2.0488</b>	<b>2.1023</b>	<b>2.0247</b>
<b><u>Fuel and Fuel Related Cost Factors Required by Rule R8-55</u></b>						
5	Proposed Nuclear Capacity Factor of 94.39% and Normalized Test Period Sales	Exh 2 Sch 2 pg 2	<b>1.6398</b>	<b>1.8191</b>	<b>1.9292</b>	<b>1.7762</b>
6	NERC 5 Year Average Nuclear Capacity Factor of 91.60% and Projected Period Sales	Exh 2 Sch 3 pg 2	<b>1.6790</b>	<b>1.8536</b>	<b>1.9530</b>	<b>1.8106</b>
<b><u>Proposed Fuel and Fuel Related Cost Factors using Proposed Nuclear Capacity Factor of 94.39%</u></b>						
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	<b>1.6391</b>	<b>1.8249</b>	<b>1.9310</b>	<b>1.7791</b>

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

Supplemental  
Revised 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% 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)	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	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  
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

Revised 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

## Supplemental

Revised McGee Exhibit 3

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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	<b>Total Test Period</b>			<b>58,642,521</b>	<b>\$ 109,389,423</b>
14	January 2020				\$ (7,772,097)
15	February 2020				\$ (22,331,606)
16	March 2020				\$ (22,145,172)
17	<b>Total (Over)/Under Recovery - Update Period January -March 2020</b>				<b>\$ (52,248,875)</b>
18	<b>Total (Over)/Under Recovery - Test Period and Update Period</b>				<b>\$ 57,140,548</b>
19	NC Retail Normalized Test Period MWh Sales			Exhibit 4	58,622,539
20	<b>Experience Modification Increment (Decrement) cents/kWh</b>				<b>0.0975</b>

<sup>(1)</sup> 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	<b>Total Test Period</b>			<b>22,091,823</b>	<b>\$ 35,324,665</b>
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	<b>Total (Over)/Under Recovery - Update Period January -March 2020</b>				<b>\$ (27,152,504)</b>
19	<b>Total (Over)/Under Recovery - Test Period and Update Period</b>				<b>\$ 8,172,161</b>
20	NC Retail Normalized Test Period MWh Sales		Exhibit 4	22,444,481	
21	<b>Experience Modification Increment (Decrement) cents/kWh</b>				<b>0.0364</b>

**Notes:**

<sup>(1)</sup> 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	<b>Total Test Period</b>			<b>24,259,901</b>	<b>\$ 35,758,666</b>
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	<b>Total (Over)/Under Recovery - Update Period January -March 2020</b>				<b>\$ (19,988,636)</b>
19	<b>Total (Over)/Under Recovery - Test Period and Update Period</b>				<b>\$ 15,770,030</b>
20	NC Retail Normalized Test Period MWh Sales			Exhibit 4	23,688,550
21	<b>Experience Modification Increment (Decrement) cents/kWh</b>				<b>0.0666</b>

**Notes:**

<sup>(1)</sup> 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	<b>Total Test Period</b>			<b>12,290,797</b>	<b>\$ 38,306,091</b>
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	<b>Total (Over)/Under Recovery - Update Period January -March 2020</b>				<b>\$ (5,107,737)</b>
19	<b>Total (Over)/Under Recovery - Test Period and Update Period</b>				<b>\$ 33,198,354</b>
20	NC Retail Normalized Test Period MWh Sales			Exhibit 4	12,489,508
21	<b>Experience Modification Increment (Decrement) cents/kWh</b>				<b>0.2658</b>

**Notes:**

<sup>(1)</sup> 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**

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			
				<b>Summer Coincidental Peak (CP) kW</b>			
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>7,150,989</u>	<u>87,911,333</u>
5 Total fuel and fuel-related costs (¢/KWH) (line 1/line 4)	<u>1.7175</u>	<u>1.9908</u>
6 Current fuel and fuel-related cost component (¢/KWH) (per Schedule 4, Line 7a Total)	<u>1.8856</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>6,286,918</u>	<u>83,505,648</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	-	-	-	
	<b>\$ 20,779,232</b>	<b>\$ 253,836</b>	<b>872,300</b>	<b>\$ 17,891,442</b>	<b>\$ 2,634,380</b>	<b>\$ (425)</b>
<b>Renewable Energy</b>						
REPS	\$ 4,555,891	\$ 591,922	81,362	\$ -	\$ 3,963,969	\$ -
DERP - Purchased Power	24,691	2,168	390	-	15,590	6,933
	<b>\$ 4,580,582</b>	<b>\$ 594,090</b>	<b>81,752</b>	<b>\$ -</b>	<b>\$ 3,979,559</b>	<b>\$ 6,933</b>
<b>HB589 PURPA Purchases</b>						
Qualifying Facilities	2,350,054	187,603	46,154	-	2,090,407	72,044
	<b>\$ 2,350,054</b>	<b>\$ 187,603</b>	<b>46,154</b>	<b>\$ -</b>	<b>\$ 2,090,407</b>	<b>\$ 72,044</b>
<b>Non-dispatchable / Other</b>						
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
	<b>\$ 2,921,979</b>	<b>\$ 1,275,700</b>	<b>55,431</b>	<b>\$ 924,510</b>	<b>\$ -</b>	<b>\$ 721,769</b>
<b>Total Purchased Power</b>	<b>\$ 30,631,847</b>	<b>\$ 2,311,229</b>	<b>1,055,637</b>	<b>\$ 18,815,952</b>	<b>\$ 8,704,346</b>	<b>\$ 800,320</b>
<b>Interchanges In</b>						
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
<b>Interchanges Out</b>						
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)
<b>Net Purchases and Interchange Power</b>	<b>\$ 30,562,284</b>	<b>\$ 2,177,020</b>	<b>1,065,215</b>	<b>\$ 18,739,467</b>	<b>\$ 8,704,346</b>	<b>\$ 941,453</b>

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 \$
<b>Utilities:</b>					
SC Electric & Gas - Emergency	\$ 31,543	-	470	\$ 27,262	\$ 4,281
<b>Market Based:</b>					
Central Electric Power Cooperative, Inc.	458,000	\$ 458,000	-	-	-
NCMPA	91,985	87,500	48	4,187	298
PJM Interconnection, LLC.	168	-	-	-	168
<b>Other:</b>					
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	-	-	-	-	-
<b>Total Intersystem Sales</b>	<b>\$ 2,762,609</b>	<b>\$ 545,500</b>	<b>70,226</b>	<b>\$ 2,169,260</b>	<b>\$ 47,849</b>

\* 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 \$ Not Fuel-related \$
Economic	\$	\$				
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	-	-	-	
	<b>\$ 273,325,408</b>	<b>\$ 11,212,311</b>	<b>7,993,064</b>	<b>\$ 206,024,843</b>	<b>\$ 55,951,524</b>	<b>\$ 136,730</b>
<b>Renewable Energy</b>						
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
	<b>\$ 71,769,224</b>	<b>\$ 15,308,976</b>	<b>1,123,838</b>	<b>\$ -</b>	<b>\$ 56,329,928</b>	<b>\$ 130,320</b>
<b>HB589 PURPA Purchases</b>						
Qualifying Facilities	34,809,936	\$ 6,969,349	580,279	\$ -	\$ 26,764,794	\$ 1,075,793
	<b>\$ 34,809,936</b>	<b>\$ 6,969,349</b>	<b>580,279</b>	<b>\$ -</b>	<b>\$ 26,764,794</b>	<b>\$ 1,075,793</b>
<b>Non-dispatchable / Other</b>						
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
	<b>\$ 46,656,380</b>	<b>\$ 14,483,170</b>	<b>909,017</b>	<b>\$ 18,966,910</b>	<b>\$ -</b>	<b>\$ 13,206,300</b>
<b>Total Purchased Power</b>	<b>\$ 426,560,948</b>	<b>\$ 47,973,806</b>	<b>10,606,198</b>	<b>\$ 224,991,753</b>	<b>\$ 139,046,246</b>	<b>\$ 14,549,143</b>
<b>Interchanges In</b>						
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
<b>Interchanges Out</b>						
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)
<b>Net Purchases and Interchange Power</b>	<b>\$ 428,113,370</b>	<b>\$ 46,393,599</b>	<b>10,903,350</b>	<b>\$ 226,010,545</b>	<b>\$ 139,046,246</b>	<b>\$ 16,662,980</b>

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 \$
<b>Utilities:</b>					
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
<b>Market Based:</b>					
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
<b>Other:</b>					
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)
<b>Total Intersystem Sales</b>	<b>\$ 67,773,157</b>	<b>\$ 5,630,350</b>	<b>2,045,438</b>	<b>\$ 60,148,973</b>	<b>\$ 1,993,834</b>

\* 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	L4 T / L1			66.76%
6	NC kWh sales % of adjusted system kWh sales	L4 T / L3			66.66%
7	Approved fuel and fuel-related rates (¢/kWh)				
7a	Billed rates by class (¢/kWh)	Input Annually	1.8126	1.9561	1.8934
					1.8856
	7b Lime water emissions in Base Rates	Input	0.0001	0.0001	0.0001
	7c Total billed rates by class (¢/kWh)	L7a + L7b	<u>1.8127</u>	<u>1.9562</u>	<u>1.8935</u>
	7d Billed fuel expense	L7c * L4 / 100	\$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	Input	35.24%	42.14%	22.62%
8b	System incurred expense	Input			\$122,163,913
8c	Incurred base fuel and fuel-related expense	L8b * L6 * 8a	\$28,697,516	\$34,322,185	\$18,419,291
8d	Incurred base fuel rates by class (¢/kWh)	L8c / L4 * 100	1.4872	1.8136	1.9348
9	Incurred renewable purchased power capacity rates by class (¢/kWh)				
9a	NC retail production plant %	Input			67.75%
9b	Production plant allocation factors	Input	44.82%	37.86%	17.32%
9c	System incurred expense	Input			\$995,058
9d	Incurred renewable capacity expense	L9a * L9b * 9c	\$302,128	\$255,232	\$116,760
9e	Incurred renewable capacity rates by class (¢/kWh)	(L9a * L9c) * L9b / L4 * 100	0.0157	0.0135	0.0123
					0.0141
10	Total incurred rates by class (¢/kWh)	L8d + L9e	1.5029	1.8270	1.9470
11	Difference in ¢/kWh (incurred - billed)	L7c - L10	(0.3098)	(0.1292)	0.0535
12	(Over) / under recovery [See footnote]	(L4 * L11) / 100	<u>(\$5,977,815)</u>	<u>(\$2,444,288)</u>	<u>\$509,741</u>
					<u>(\$7,912,362)</u>
13	Prior period adjustments	Input	320,433	254,840	74,777
14	Total (over) / under recovery [See footnote]	L12 + L13	<u>(\$5,657,382)</u>	<u>(\$2,189,448)</u>	<u>\$584,518</u>
					<u>(\$7,262,312)</u>
15	Total system incurred expense	L8b + L9c			\$123,158,971
16	Less: Jurisdictional allocation adjustment(s)	Input			341,787
17	Total Fuel and Fuel-related Costs per Schedule 2	L15 + L16			<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
<b>Cost of Fuel Purchased (\$)</b>								
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					
<b>Total</b>	<b>\$2,365,698</b>	<b>\$17,133,228</b>	<b>\$10,327,668</b>		<b>\$54,658</b>	<b>\$15,392,619</b>	<b>\$8,074,155</b>	<b>\$14,230,745</b>
<b>Average Cost of Fuel Purchased (¢/MBTU)</b>								
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					
<b>Weighted Average</b>	<b>317.12</b>	<b>268.11</b>	<b>358.73</b>		<b>388.57</b>	<b>328.85</b>	<b>345.25</b>	<b>347.45</b>
<b>Cost of Fuel Burned (\$)</b>								
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				
<b>Total</b>	<b>\$818,738</b>	<b>\$11,413,332</b>	<b>\$10,327,668</b>	<b>\$10,342,435</b>	<b>\$54,658</b>	<b>\$3,949,150</b>	<b>\$8,074,155</b>	<b>\$14,230,745</b>
<b>Average Cost of Fuel Burned (¢/MBTU)</b>								
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				
<b>Weighted Average</b>	<b>328.06</b>	<b>317.95</b>	<b>358.73</b>	<b>59.29</b>	<b>388.57</b>	<b>331.21</b>	<b>345.25</b>	<b>347.45</b>
<b>Average Cost of Generation (¢/kWh)</b>								
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				
<b>Weighted Average</b>	<b>4.85</b>	<b>3.02</b>	<b>2.54</b>	<b>0.59</b>	<b>-</b>	<b>3.53</b>	<b>2.54</b>	<b>2.42</b>
<b>Burned MBTU's</b>								
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				
<b>Total</b>	<b>249,567</b>	<b>3,589,684</b>	<b>2,878,993</b>	<b>17,444,528</b>	<b>14,066</b>	<b>1,192,335</b>	<b>2,338,618</b>	<b>4,095,789</b>
<b>Net Generation (mWh)</b>								
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)								
<b>Total</b>	<b>16,887</b>	<b>377,983</b>	<b>406,529</b>	<b>1,745,157</b>	<b>(243)</b>	<b>111,855</b>	<b>317,530</b>	<b>588,459</b>
<b>Cost of Reagents Consumed (\$)</b>								
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)	-							
<b>Total</b>	<b>30,312</b>	<b>\$177,655</b>	<b>\$16,314</b>			<b>\$161,875</b>	<b>\$3,702</b>	<b>\$21,144</b>

(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 30,749,966	40,328,338 42,380,517 2,384,026 364,625,765
\$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 52,072,844	12,167,439 11,798,774 123,658 617,400,818
8,598	18,759	7,144,947	17,579,448 17,579,448	64,130	17,048,868 17,048,868	570,335	74,238,665	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 5,203,803 171,008 8,911	1,062,059 1,157,313 17,335 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
<b>Coal Data:</b>														
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
<b>Oil Data:</b>														
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
<b>Natural Gas Data:</b>														
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														
<b>Biogas Data:</b>														
Beginning balance														
MCF received during period			14,866			-	-						14,866	119,928
MCF burned during period			14,866			-	-						14,866	119,928
Ending balance														
<b>Limestone Data:</b>														
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
<b>Ammonia Data:</b>														
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
<b>ALLEN</b>	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>
<b>BELEWS CREEK</b>	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>
<b>CLIFFSIDE</b>	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>
<b>MARSHALL</b>	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>
<b>ALL PLANTS</b>	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**

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

**DUKE ENERGY CAROLINAS**  
**ANALYSIS OF OIL PURCHASED**  
**DECEMBER 2019**

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

**Supplemental McGee Workpaper 1**

	<u>Catawba 1</u>	<u>Catawba 2</u>	<u>McGuire 1</u>	<u>McGuire 2</u>	<u>Oconee 1</u>	<u>Oconee 2</u>	<u>Oconee 3</u>	<u>Total</u>
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	
<b>Avg \$/MWh</b>		<b>6.0407</b>						
<b>Cents per kWh</b>		<b>0.6041</b>						

**Sept 2020 -  
August 2021**

<b>MDC</b>			
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>
<b>Hours in month</b>			8,760
<b>Generation GWhs</b>			
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>
<b>Proposed Nuclear Capacity Factor</b>			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

## Supplemental McGee Workpaper 2

	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>		<b>91.60%</b>

Wtd Avg on Capacity Rating

## DUKE ENERGY CAROLINAS

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

## Supplemental 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  
 Annualized Revenue  
 Billing Period Sept 2020 through Aug 2021  
 Docket E-7, Sub 1228

Supplemental 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

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

## Supplemental 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
<b>E-7 Sub 1228</b>				
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
<b>E-7 Sub 1190</b>				
	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

**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**

Supplemental McGee Workpaper 10b

	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%
<b>Fuel and Fuel related component of purchased power</b>													
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
<b>Less:</b>													
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
<b>Capacity component of purchased power</b>													
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
<b>TOTAL (Over)/ Under \$:</b>	<b>\$ 25,432,185</b>	<b>\$ 3,435,322</b>	<b>\$ 2,873,271</b>	<b>\$ 2,034,577</b>	<b>\$ 2,794,608</b>	<b>\$ 2,733,159</b>	<b>\$ 6,299,140</b>	<b>\$ 7,839,965</b>	<b>\$ 4,382,500</b>	<b>\$ 2,199,474</b>	<b>\$ 3,062,201</b>	<b>\$ 9,402,025</b>	<b>\$ 72,488,427</b>

**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**

**Supplemental 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

Supplemental McGee Workpaper 12  
 Page 1

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	<b>219,018</b>	<b>(765,439)</b>	<b>234,566</b>	<b>(311,855)</b>

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	<b>76,245</b>	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

Supplemental McGee Workpaper 13  
Page 1

Line	Estimation Method <sup>1</sup>	Rate Schedule	NC	SC	Wholesale	Total Company
			Proposed KWH <sup>1</sup>	Proposed KWH	Proposed KWH	
			Adjustment	Adjustment	Adjustment	
1	Regression	Residential	184,999,964	76,243,652		
2						
3		<b>General Service (excluding lighting):</b>				
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		<b>Lighting:</b>				
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		<b>Industrial:</b>				
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:

<sup>1</sup>Two 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

<sup>2</sup>T 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

## **Duke Energy Carolinas, LLC Fossil Fuel Procurement Practices**

### **Coal**

- Near and long-term coal consumption is forecasted based on inputs such as load projections, fleet maintenance and availability schedules, coal quality and cost, environmental permit and emissions considerations, projected renewable capacity, and wholesale energy imports and exports.
- Station and system inventory targets are developed to provide reliability, insulation from short-term market volatility, and sensitivity to evolving coal production and transportation conditions. Inventories are monitored continuously.
- On a continuous basis, existing purchase commitments are compared with consumption and inventory requirements to determine additional needs.
- All qualified suppliers are invited to participate in proposals to satisfy additional or contract needs.
- Spot market solicitations are conducted on an on-going basis to supplement contract purchases.
- Contracts are awarded based on the lowest evaluated offer, considering factors such as price, quality, transportation, reliability and flexibility.
- Delivered coal volume and quality are monitored against contract commitments. Coal and freight payments are calculated based on certified scale weights and coal quality analysis meeting ASTM standards as established by ASTM International.

### **Gas**

- Near and long-term natural gas consumption is forecasted based on inputs such as load projections, commodity and emission prices, projected renewable capacity, and fleet maintenance and availability schedules.
- Physical procurement targets are developed to procure a cost effective and reliable natural gas supply.
- Over time, short-term and long-term Requests for Proposals and market solicitations are conducted with potential suppliers to procure the cost competitive, secure, and reliable natural gas supply, firm transportation, and storage capacity needed to meet forecasted gas usage.
- Short-term and spot purchases are conducted on an on-going basis to supplement term natural gas supply.
- On a continuous basis, existing purchases are compared against forecasted gas usage to ascertain additional needs.
- Natural gas transportation for the generation fleet is obtained through a mix of long term firm transportation agreements, and shorter term pipeline capacity purchases.
- A targeted percentage of the natural gas fuel price exposure is managed via a rolling 36-month structured financial natural gas hedging program.
- Through the Asset Management and Delivered Supply Agreement between Duke Energy Carolinas, LLC (“DEC”) and Duke Energy Progress, LLC implemented on January 1, 2103, DEC serves as the designated Asset Manager that procures and manages the combined gas supply needs for the combined Carolinas gas fleet.

**Fuel Oil**

- No. 2 fuel oil is burned primarily for initiation of coal combustion (light-off at steam plants) and in combustion turbines (peaking assets).
- All No. 2 fuel oil is moved via pipeline to applicable terminals where it is then loaded on trucks for delivery into the Company's storage tanks. Because oil usage is highly variable, the Company relies on a combination of inventory, responsive suppliers with access to multiple terminals, and trucking agreements to manage its needs. Replenishment of No. 2 fuel oil inventories at the applicable plant facilities is done on an "as needed basis" and coordinated between fuel procurement and station personnel.
- Formal solicitations for supply may be conducted as needed with an emphasis on maintaining a network of reliable suppliers at a competitive market price in the region of our generating assets.

DUKE ENERGY CAROLINAS  
Summary of Coal Purchases  
Twelve Months Ended December 31, 2019 & 2018  
Tons

OFFICIAL COPY

Feb 25 2020

<u>Line No.</u>	<u>Month</u>	<u>Contract (Tons)</u>	<u>Net Spot Purchase and Sales(Tons)</u>	<u>Total (Tons)</u>
1	January 2019	467,830	111,867	579,698
2	February	555,624	64,276	619,900
3	March	551,679	112,937	664,616
4	April	476,648	227,914	704,562
5	May	549,400	152,538	701,938
6	June	647,313	140,296	787,609
7	July	692,046	77,088	769,134
8	August	732,253	115,963	848,217
9	September	469,275	204,304	673,579
10	October	471,409	231,850	703,259
11	November	397,228	239,441	636,669
12	December	560,959	202,536	763,494
<b>13</b>	<b>Total (Sum L1:L12)</b>	<b>6,571,664</b>	<b>1,881,010</b>	<b>8,452,675</b>

<u>Line No.</u>	<u>Month</u>	<u>Contract (Tons)</u>	<u>Net Spot Purchase and Sales(Tons)</u>	<u>Total (Tons)</u>
14	January 2018	453,756	60,390	514,146
15	February	770,299	0	770,299
16	March	818,185	48,963	867,148
17	April	728,025	13,269	741,294
18	May	712,466	11,116	723,582
19	June	683,250	37,208	720,458
20	July	717,234	149,366	866,600
21	August	678,523	221,949	900,470
22	September	564,680	218,860	783,537
23	October	387,121	95,651	482,771
24	November	349,180	53,825	403,003
25	December	483,536	96,525	580,061
<b>26</b>	<b>Total (Sum L14:L25)</b>	<b>7,346,255</b>	<b>1,007,122</b>	<b>8,353,369</b>

DUKE ENERGY CAROLINAS  
Summary of Gas Purchases  
Twelve Months Ended December 31, 2019 & 2018  
MBTUs

<u>Line</u> <u>No.</u>	<u>Month</u>	<u>MBTUs</u>
1	January 2019	11,540,233
2	February	11,895,973
3	March	8,829,116
4	April	7,309,473
5	May	12,448,810
6	June	10,195,827
7	July	12,505,061
8	August	12,104,186
9	September	12,459,839
10	October	8,409,940
11	November	5,772,711
12	December	10,423,250
<b>13</b>	<b>Total (Sum L1:L12)</b>	<b>123,894,419</b>

<u>Line</u> <u>No.</u>	<u>Month</u>	<u>MBTUs</u>
14	January 2018	6,638,156
15	February	6,512,143
16	March	10,050,310
17	April	10,537,626
18	May	10,067,211
19	June	12,715,364
20	July	15,647,875
21	August	12,892,804
22	September	12,377,677
23	October	10,303,322
24	November	11,867,520
25	December	9,183,559
<b>26</b>	<b>Total (Sum L14:L25)</b>	<b>128,793,567</b>



**JOHN A. ROSENKRANZ**  
56 Washington Drive  
Acton, MA 01720  
(617) 755-3622  
[jrosenkranz@verizon.net](mailto:rosenkranz@verizon.net)

## PROFESSIONAL EXPERIENCE

**North Side Energy, LLC, Acton, MA** 2006 – Present  
**PRINCIPAL**

Consultant to energy companies, government agencies and natural gas consumers. Project areas include:

- Gas distribution company resource planning and procurement practices.
- Fuel supply for power generation and electric-gas interface issues.
- Natural gas transmission and storage cost allocation.
- Market studies and avoided cost analysis.

**Calpine Corporation, Boston, MA** 2000 – 2006  
**DIRECTOR, GAS ORIGINATION**

Developed and implemented fuel supply plans for gas-fired power plants in the Northeast U.S. and Eastern Canada. Negotiated and managed contracts with natural gas suppliers and transporters.

- Testified on the availability of natural gas supply and pipeline delivery capacity to support the permitting of a gas-fired power plant in the Midwest.
- Supported arbitration cases to enforce long-term natural gas contracts.

**PG&E Gas Transmission, Boston, MA and Portland, OR** 1997 – 1999  
**DIRECTOR, BUSINESS DEVELOPMENT**

Identified and managed development projects and investment opportunities involving natural gas pipelines, underground storage and LNG peaking plants.

- Project manager for a natural gas storage feasibility study in the Pacific Northwest.
- Owner representative and management committee member for the Iroquois Gas Transmission System and Portland Natural Gas Transmission System partnerships.

**MANAGER, PROJECT DEVELOPMENT – J. Makowski Company, Boston, MA** 1992 – 1997  
Supervised a team that provided project management and marketing support for natural gas pipeline and storage projects. Conducted regional gas market studies for internal projects and outside clients.

**VICE PRESIDENT - EnerPro, Inc., Chicago, IL** 1990 – 1992  
Consultant to gas distribution companies. Helped clients define gas portfolio objectives, draft requests for proposals, evaluate suppliers, and negotiate long-term gas purchase contracts.

**MANAGER, GAS MODELING GROUP - Planmetrics, Inc., Chicago, IL** 1986 – 1990  
Provided consulting support to gas distribution companies on gas dispatch modeling and cost forecasts.

**ADVISORY ECONOMIST - Chicago Board of Trade, Chicago, IL** 1983 – 1986  
Researched commodity markets for futures and options trading potential. Prepared a natural gas futures trading proposal that was submitted to the Commodity Futures Trading Commission.

## EDUCATION

**Graduate study in Economics** - Northwestern University, Evanston, IL  
Completed all course and examination requirements for Ph.D.

**Bachelor of Arts, Economics** - George Washington University, Washington, DC

## RECENT REGULATORY PROCEEDINGS

### *Natural Gas Supply Planning and Cost of Gas*

#### National Grid Denial of Service Investigation

Case #: New York Public Service Commission Case 19-G-0678

Client: Eastern Environmental Law Center

Scope: Comments on National Grid Long-Term Capacity Report

#### Liberty Utilities (EnergyNorth) Proposed Transportation Agreement with Tennessee Gas Pipeline

Case #: New Hampshire PUC Docket 14-380

Client: Pipe Line Awareness Network for the Northeast, Inc.

Scope: Testimony on alternatives to a proposed long-term pipeline transportation contract.

#### Liberty Utilities (EnergyNorth) Granite Bridge Project

Case #: New Hampshire PUC Docket 17-198

Client: Pipe Line Awareness Network for the Northeast, Inc.

Scope: Testimony on proposed intrastate pipeline and LNG peaking facility.

#### Berkshire Gas Company 2016 Integrated Resource Plan

Case#: Massachusetts DPU Docket 16-103

Client: Town of Montague

Scope: Testimony on alternatives for ending moratorium on new gas service.

#### Berkshire Gas Company Long Term Contract Approval

Case#: Massachusetts DPU Docket 15-178

Client: Town of Montague

Scope: Testimony on alternatives to a proposed long-term gas transportation contract.

#### Bangor Natural Gas Company Request for Contract Approvals

Case#: Maine PUC Docket 2019-00105

Client: Maine Public Advocate

Scope: Testimony on proposed long-term gas transportation contracts.

#### Northern Utilities, Inc. Integrated Resource Plans

Case #: Maine PUC Dockets 2015-00018 and 2011-00526

Client: Maine Public Advocate

Scope: Prepare discovery requests and participate in technical conferences.

#### Northern Utilities, Inc. Cost of Gas Factor Cases

Case #: Annual, 2012 to present.

Client: Maine Public Advocate

Scope: Review cost of gas filings. Prepare discovery requests and participate in technical conferences.

South Jersey Gas Company Basic Gas Supply Service Reviews

Case #: Annual. 2013 to present

Client: New Jersey Division of Rate Counsel

Scope: Draft discovery requests, prepare written report, and support settlement negotiations.

Elizabethtown Gas Capacity Management Plan

Case#: New Jersey BPU Docket GO13040272

Client: New Jersey Division of Rate Counsel

Scope: Prepare discovery requests and participate in settlement negotiations.

*Cost Allocation and Rates*

Union Gas 2014 Rate Case

Case #: Ontario Energy Board Case EB-2013-0365

Client: Canadian Manufacturers & Exporters and other consumer groups

Scope: Testimony recommending changes to the allocation of transmission costs.

Northern Utilities Approval of Affiliated Interest Transaction

Case #: Maine PUC Dockets 2011-00302, 2012-00393, and 2013-00259

Client: Maine Public Advocate

Scope: Review proposed contract with pipeline affiliate. Examine rate implications for sales customers.

Granite State Gas Transmission, Inc. Rate Case

Case #: FERC Docket No. RP10-896

Clients: Maine Public Advocate and MPUC Staff

Scope: Review rate case application. Participate in settlement negotiations.

Maritimes & Northeast Rate Case

Case #: FERC Docket No. RP04-360

Client: Calpine Corporation

Scope: Testimony on distance-based rates.

*Natural Gas Markets*

Merger of The Southern Company and AGL Resources, Inc.

Case #: New Jersey BPU Docket GM15101196

Client: New Jersey Division of Rate Counsel

Scope: Testimony on potential affiliate preference in asset management arrangement.

Union Gas 2016 Dawn Parkway Expansion Project

Case #: Ontario Energy Board Case EB-2014-0261

Client: Canadian Manufacturers & Exporters and other consumer groups

Scope: Testimony on market developments that may reduce Northeast U.S. companies' demand for Canadian gas transportation services.

Ontario Natural Gas Market Review

Case #: Ontario Energy Board Cases EB-2014-0289 and EB-2010-0199

Client: Canadian Manufacturers & Exporters and other consumer groups

Scope: Written and oral submissions on natural gas market issues.

Enbridge Gas Distribution GTA Project

Case #: Ontario Energy Board Case EB-2012-0451

Client: Green Energy Coalition

Scope: Prepare discovery requests on the need for a proposed expansion project.

Portland Natural Gas Transmission System Rate Case

Case #: FERC Docket RP10-729

Client: Maine Public Advocate

Scope: Rebuttal testimony on the market risks faced by the pipeline.

*Natural Gas for Power Generation*

New Jersey Natural Gas Service Agreement for Red Oak Power

Case #: New Jersey BPU Docket GO13010059

Client: New Jersey Division of Rate Counsel

Scope: Prepare discovery requests and participate in settlement negotiations.

Ontario Integrated Power System Plan

Case #: OEB Case EB-2007-0707

Client: Ontario Power Authority

Scope: Report on the implications of increased gas-fired power generation for the Ontario gas market.

Natural Gas Electricity Interface Review

Case #: OEB Case EB-2005-0551

Client: Association of Power Producers of Ontario

Scope: Written evidence on power generators' gas service needs. Expert witness at hearing.

Greenfield Energy Centre Leave to Construct

Case#: Ontario Energy Board Case EB-2005-0441

Client: Greenfield Energy Centre

Scope: Witness supporting application to construct a gas supply pipeline.

*Rulemakings*

Storage and Transportation Access Rules

Case #: Ontario Energy Board Case EB-2008-0052

Client: Ontario Energy Board Staff

Scope: Report on transporter and storage operator conduct and reporting requirements in other jurisdictions. Assist in drafting proposed rules and reviewing intervenor comments.

Guidelines for Pre-Approval of Long-Term Gas Supply Contracts

Case #: Ontario Energy Board Case EB-2008-0280

Client: Ontario Energy Board Staff

Scope: Assist Board Staff in evaluating policy options.

**Duke Energy Carolinas, LLC**  
**Docket No. E-7, Sub 1228**  
**Fuel and Fuel-Related Cost Proceeding**  
**Test Year Ended December 31, 2019**  
**SIERRA CLUB Data Request No. 1-8**  
**Date Sent: 5/4/2020**  
**Requested Due Date: 5/4/2020**

**REQUEST:**

Reference: Phipps Exhibit 1, page 1. For each Duke Energy Carolinas plant that burned natural gas during the test period, please identify the gas transporter(s) connected to the plant. For plants with direct connections to an interstate pipeline, please identify the transporter deliver meter.

**CONFIDENTIAL RESPONSE:**

Please see the CONFIDENTIAL attachment.



Response provided by:  
Tiffany Weir, Regulatory Strategy Manager

**Duke Energy Carolinas, LLC**

**Sierra Club 1-8 - Natural Gas Pipeline Firm Gas Transportation Agreements (Intrastate and Interstate)**

**Test Period: 1/1/19-12/31/19**

<b>Plant</b>	<b>Meter Number*</b>	<b>Interconnect</b>
Belews Creek	Duke VAD (9004742)	Piedmont
Buck	Duke VAD (9004742)	Piedmont
Cherokee (Tolled)	07334	Transco
Clemson CHP	1006669	Fort Hill NGA
Cliffside	PSNC VAD (1006608)	PSNC
Dan River	Duke VAD (9004742)	Piedmont
Lincoln	Duke VAD (9004742)	Piedmont
Mill Creek	Duke VAD (9004742)	Piedmont
Rockingham	Duke VAD (9004742)	Piedmont
WS Lee CC	Duke VAD (9004742)	Piedmont
WS Lee CT	Duke VAD (9004742)	Piedmont

\*Note, most DEC natural gas plants do not directly connect to interstate pipelines. For these plants, DEC uses a single Transco VAD.

**Duke Energy Carolinas, LLC**  
**Docket No. E-7, Sub 1228**  
**Fuel and Fuel-Related Cost Proceeding**  
**Test Year Ended December 31, 2019**  
**SIERRA CLUB Data Request No. 1-5**  
**Date Sent: 5/4/2020**  
**Requested Due Date: 5/4/2020**

**REQUEST:**

Reference: Phipps Exhibit 1, page 1, and Phipps Exhibit 2, page 2. For each month of the test period, please break out the total gas purchase quantity in Exhibit 2 to show: (a) the gas quantity that was transported to plants using a Duke Energy Carolinas or Duke Energy Progress long term firm transportation agreement, (b) the gas quantity that was transported to plants using a shorter term pipeline capacity purchase, and (c) the gas quantity that was delivered to plants by the gas seller.

**RESPONSE:**

DR 1-5 requests information that is not reasonably available as it relates to tying the gas purchase quantity in Exhibit 2 to (a) the gas quantity that was transported to plants using a Duke Energy Carolinas or Duke Energy Progress long term firm transportation agreement, (b) the gas quantity that was transported to plants using a shorter term pipeline capacity purchase, and (c) the gas quantity that was delivered to plants by the gas seller.

Please see the attached Excel file showing the total natural gas purchases by month as well as the total 3rd party delivered natural gas purchases together with the daily firm long term and short term capacity available by month to transport non-3rd party delivered gas supply to the Transco Duke VAD referenced in DR 1-8.



2020 DEC SC DR 1-5  
Natural Gas Purchase

Response provided by:  
Tiffany Weir, Regulatory Strategy Manager

**Duke Energy Carolinas, LLC****Sierra Club 1-5 - Total gas purchase quantity, 3rd party delivered gas & available transportation capacity****Test Period: 1/1/19-12/31/19**

Note: E-7 Sub 1228- 2020 DEC NC Fuel - Phipps Exhibit 2 presents gas receipts by DEC Generating Stations only, excluding receipts by DEP Generation Stations and DEP tolling facilities as they are outside the scope of the DEC fuel proceeding and DEC tolling Facilities as they are reviewed as purchased power expense. The following is a breakout of actual gas purchases for the test period 1/1/2019-12/31/2019. DEC is the face to the market and purchases natural gas supply and transportation for both DEC and DEP on a combined basis. Given this, the purchased and available transportation capacity below are for DEC and DEP combined and the costs/volumes are allocated based on actual burns according to the NCUC AMA approved methodology. The exception to this are gas purchase contracts for NC REPS requirements.

	<b>Total Monthly Purchases (Mbtu/Month)</b>	<b>Monthly 3rd Party Deliveries (Mbtu/Month)</b>	<b>Contracted Long Term Transportation Capacity (Mbtu/day)</b>	<b>Contracted Short Term Transportation Capacity (Mbtu/day)</b>
Jan-19	27,116,131	16,502,867	434,560	0
Feb-19	26,803,938	16,688,277	434,560	0
Mar-19	23,163,935	9,301,002	434,560	45,239
Apr-19	21,521,450	9,048,041	434,560	30,000
May-19	22,851,291	8,867,692	434,560	70,000
Jun-19	25,207,732	11,786,761	434,560	70,000
Jul-19	29,036,804	15,660,366	434,560	70,000
Aug-19	29,523,737	15,105,607	434,560	70,000
Sep-19	28,945,719	15,303,090	434,560	70,000
Oct-19	25,758,461	10,991,992	434,560	30,000
Nov-19	23,074,372	10,120,869	434,560	18,779
Dec-19	25,678,758	12,795,044	434,560	18,779



**EXHIBIT 1**

**Proposed Fuel and Fuel-Related Cost Factors in cents per kWh**  
**effective September 1, 2020**  
**(excludes regulatory fee)**

**TABLE 1 – Company PROPOSED Fuel and Fuel-Related Cost Factors**  
**(¢ per kWh)**

<b>Rate Class</b>	<b>Base &amp; Prospective</b>	<b>EMF</b>	<b>EMF Interest</b>	<b>Total Fuel Factor</b>
Residential	1.6027	0.0364	0	1.6391
General Service/Lighting	1.7583	0.0666	0	1.8249
Industrial	1.6652	0.2658	0	1.9310

For comparison, Table 2 below provides the existing fuel and fuel-related cost factors (excluding the regulatory fee) approved in Docket No. E-7, Sub 1190:

**TABLE 2 – EXISTING Fuel and Fuel-Related Cost Factors (¢ per kWh)**

<b>Rate Class</b>	<b>Base &amp; Prospective</b>	<b>EMF</b>	<b>EMF Interest</b>	<b>Total Fuel Factor</b>
Residential	1.8126	0.1375	0	1.9501
General Service/Lighting	1.9561	0.0927	0	2.0488
Industrial	1.8934	0.2089	0	2.1023